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n.b.: Per alcuni articoli (#54, #191, #200, #201, #234, #274, #30-2004, #21-2005 e #5-2006) - per i quali esiste anche una versione in lingua russa, oltre a quella in lingua inglese - il numero di citazioni corrisponde al totale delle citazioni raccolte dalle due versioni.

Anno	n°Articolo	Titolo	Autori	Numero di citazioni
2005	15-2005	Nanostructured materials for advanced energy conversion and storage devices. Nature Materials, vol. 4, pp.366-377, 2005	Aricò AS, Bruce P, Serosati B, Tarascon JM, Van Schalkwijk W	9839
2001	287	DMFCs: from fundamental aspects to technology development. Fuel Cells, 1 (2), 133-161, 2001	Aricò AS, Srinivasan S, Antonucci V	1830
2015	13-2015	A review on basalt fibre and its composites. Composites Part B: Engineering, 74, pp.74-94, 2015	Fiore V, Scalici T, Di Bella G, Valenza A	1098
2004	2-2004	International activities in DMFC R&D: Status of technologies and potential applications. Journal of Power Sources, 127 (1-2), 112-126, 2004	Dillon R, Srinivasan S, Aricò AS, Antonucci V	881
1998	206	Micro-modelling of solid oxide fuel cell electrodes. Electrochimica Acta, 43 (3-4), 375-394, 1998	Costamagna P, Costa P, Antonucci V	615
1999	253	Investigation of a direct methanol fuel cell based on a composite Nafion-silica electrolyte for high temperature operation. Solid State Ionics, vol. 125, 431-437, 1999	Antonucci PL, Aricò AS, Creti P, Ramunni E, Antonucci V	611
2007	14-2007	Synthesis, characterization and activity pattern of Cu-ZnO/ZrO ₂ catalysts in the hydrogenation of carbon dioxide to methanol. Journal of Catalysis, 249, 185-194, 2007	Arena F, Barbera K, Italiano G, Bonura G, Spadaro L, Frusteri F	605
2017	78-2017	Supported catalysts for CO ₂ methanation: A review. Catalysts, 7 (2), art. no. 59, 2017	Frontera P, Macario A, Ferraro M, Antonucci PL	573
2001	291	Nafion content in the catalyst layer of polymer electrolyte fuel cells: Effects on structure and performance. Electrochimica Acta, vol.46, pp.799-805, 2001	Passalacqua E, Lufrano F, Squadrito G, Patti A, Giorgi L	556
1999	242	Influence of Nafion loading in the catalyst layer of gas-diffusion electrodes for PEFC. Journal of Power Sources, 77 (2), 136-142, 1999	Antolini E, Giorgi L, Pozio A, Passalacqua E	539
2015	14-2015	The effect of alkaline treatment on mechanical properties of kenaf fibers and their epoxy composites. Composites Part B: Engineering, 68, pp.14-21, 2015	Fiore V, Di Bella G, Valenza A	507
2008	29-2008	Solid-state interactions, adsorption sites and functionality of Cu-ZnO/ZrO ₂ catalysts in the CO ₂ hydrogenation to CH ₃ OH. Applied Catalysis A: General, 350, 16-23, 2008	Arena F, Italiano G, Barbera K, Bordiga S, Bonura G, Spadaro L, Frusteri F	451
2001	283	An XPS study on oxidation states of Pt and its alloys with Co and Cr and its relevance to electroreduction of oxygen. Applied Surface Science, vol.172, pp.33-40, 2001	Aricò AS, Shukla AK, Kim H, Park S, Min M, Antonucci V	439
2002	1-2002	A family of new working materials for solid sorption air conditioning systems. Applied Thermal Engineering, 22 (2), 191-204, 2002	Aristov YI, Restuccia G, Cacciola G, Parmon VN	423
2001	289	Hybrid Nafion-silica membranes doped with heteropolyacids for application in direct methanol fuel cells. Solid State Ionics, vol. 145, pp.101-107, 2001	Staiti P, Aricò AS, Baglio V, Lufrano F, Passalacqua E, Antonucci V	420
1998	223	Influence of the PTFE content in the diffusion layer of low-Pt loading electrodes for polymer electrolyte fuel cells. Electrochimica Acta, 43 (24), 3675-3680, 1998	Giorgi L, Antolini E, Pozio A, Passalacqua E	415

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2004 18-2004	H ₂ production for MC fuel cell by steam reforming of ethanol over MgO supported Pd, Rh, Ni and Co catalysts. Catalysis Communications, 5 (10), 611-615, 2004	Frusteri F, Freni S, Spadaro L, Chiodo V, Bonura G, Donato S, Cavallaro S	405
2011 28-2011	Glass-basalt/epoxy hybrid composites for marine applications. Materials and Design, 32 (4), 2091-2099, 2011	Fiore V, Di Bella G, Valenza A	403
2000 262	Sulfonated polysulfone as promising membranes for polymer electrolyte fuel cells. Journal of Applied Polymer Science, Vol. 77, pp.1250-1257, 2000	Lufrano F, Squadrito G, Patti A, Passalacqua E	392
2001 281	Composite Nafion/zirconium phosphate membranes for direct methanol fuel cell operation at high temperature. Electrochemical and Solid-State Letters, 4 (4), A31-A34, 2001	Yang C, Srinivasan S, Aricò AS, Creti P, Baglio V, Antonucci V	383
2009 14-2009	Durable superhydrophobic and antireflective surfaces by trimethylsilanized silica nanoparticles-based sol-gel processing. Langmuir, 25 (11), 6357-6362, 2009	Manca M, Cannavale A, De Marco L, Aricò AS, Cingolani R, Gigli G	364
1998 221	Comparison of ethanol and methanol oxidation in a liquid-feed solid polymer electrolyte fuel cell at high temperature. Electrochemical and Solid-State Letters, 1 (2), 66-68, 1998	Aricò AS, Creti P, Antonucci PL, Antonucci V	358
2012 12-2012	When will oil, natural gas, and coal peak?. Fuel, 98, pp.111-123, 2012	Maggio G, Cacciola G	341
2003 10-2003	Performance of Rh/Al ₂ O ₃ catalyst in the steam reforming of ethanol: H ₂ production for MCFC. Applied Catalysis A: General, 249, 119-128, 2003	Cavallaro S, Chiodo V, Freni S, Mondello N, Frusteri F	333
12-2003	Promoting effect of CeO ₂ in combustion synthesized Pt/CeO ₂ catalysts for CO oxidation. Journal of Physical Chemistry B: Materials, 107 (25), 6122-6130, 2003	Bera P, Gayen A, Hedge MS, Lalla NP, Spadaro L, Frusteri F, Arena F	329
2001 302	Technology up date and new strategies on fuel cells. Journal of Power Sources, 100 (1-2), 67-79, 2001	Cacciola G, Antonucci V, Freni S	320
2000 256	Hydrogen production from methane through catalytic partial oxidation reactions. Journal of Power Sources, vol.87, pp.28-38, 2000	Freni S, Calogero G, Cavallaro S	305
2004 11-2004	Steam reforming of bio-ethanol on alkali-doped Ni/MgO catalysts: Hydrogen production for MC fuel cell. Applied Catalysis A: General, 270 (1-2), 1-7, 2004	Frusteri F, Freni S, Chiodo V, Spadaro L, Di Blasi O, Bonura G, Cavallaro S	297
2001 292	Sulfonated polysulfone ionomer membranes for fuel cells. Solid State Ionics, vol.145, pp.47-51, 2001	Lufrano F, Gatto I, Staiti P, Antonucci V, Passalacqua E	293
1996 173	Selective water sorbents for multiple applications, 1. CaCl ₂ confined in mesopores of silica gel: sorption properties. Reaction Kinetics and Catalysis Letters, 59 (2), 325-334, 1996	Aristov YI, Tokarev MM, Cacciola G, Restuccia G	288
2005 7-2005	Thermal conductivity measurement of a PCM based storage system containing carbon fibers. Applied Thermal Engineering, 25, 1623-1633, 2005	Frusteri F, Leonardi V, Vasta S, Restuccia G	281
9-2005	Nafion-TiO ₂ composite DMFC membranes: Physico-chemical properties of the filler versus electrochemical performance. Electrochimica Acta, vol.50, pp.1241-1246, 2005	Baglio V, Aricò AS, Di Blasi A, Antonucci V, Antonucci PL, Licoccia S, Traversa E, Serraino Fiory F	280
2000 266	Membranes based on phosphotungstic acid and polybenzimidazole for fuel cell application. Journal of Power Sources, vol.90, pp.231-235, 2000	Staiti P, Minutoli M, Hočevár S	274
2009 28-2009	Catalytic etherification of glycerol by tert-butyl alcohol to produce oxygenated additives for diesel fuel. Applied Catalysis A: General, 367, 77-83, 2009	Frusteri F, Arena F, Bonura G, Cannilla C, Spadaro L, Di Blasi O	268

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2003 2-2003	Production of hydrogen for MC fuel cell by steam reforming of ethanol over MgO supported Ni and Co catalysts. Catalysis Communications, 4, 259-268, 2003	Freni S, Cavallaro S, Mondello N, Spadaro L, Frusteri F	267
2005 11-2005	Nafion-TiO ₂ hybrid membranes for medium temperature polymer electrolyte fuel cells (PEFCs). Journal of Power Sources, vol.152, pp.16-21, 2005	Saccà A, Carbone A, Passalacqua E, D'Epifanio A, Licoccia S, Traversa E, Sala E, Traini F, Ornelas R	266
2011 1-2011	Hydrogen production by methane tri-reforming process over Ni-ceria catalysts: Effect of La-doping. Applied Catalysis B: Environmental, 104 (1-2), 64-73, 2011	Pino L, Vita A, Cipiti F, Laganà M, Recupero V	264
2001 294	Sulfonated polybenzimidazole membranes – Preparation and physico-chemical characterization. Journal of Membrane Science, vol.188, pp.71-78, 2001	Staiti P, Lufrano F, Aricò AS, Passalacqua E, Antonucci V	256
2000 273	CWO of phenol on two differently prepared CuO-CeO ₂ catalysts. Applied Catalysis B: Environmental, 28 (2), 113-125, 2000	Hočevár S, Krasovec UO, Orel B, Aricò AS, Kim H	253
2014 1-2014	The changing nature of the active site of Cu-Zn-Zr catalysts for the CO ₂ hydrogenation reaction to methanol. Applied Catalysis B: Environmental, 152-153, pp.152-161, 2014	Bonura G, Cordaro Mn, Cannilla C, Arena F, Frusteri F	250
1986 p3-1986	Hydrogenation of α,β unsaturated aldehydes over Pt-Sn/nylon. Journal of Catalysis, 102, 190-198, 1986	Poltarzewski Z, Galvagno S, Pietropaolo R, Staiti P	248
1996 160	Analysis of the electrochemical characteristics of a direct methanol fuel cell based on a Pt-Ru/C anode catalyst. Journal of the Electrochemical Society, 143 (12), 3950-3959, 1996	Aricò AS, Creti P, Kim H, Mantegna R, Giordano N, Antonucci V	247
1998 217	A characterization study of the surface acidity of solid catalysts by temperature programmed methods. Applied Catalysis A: General, vol.170, 127-137, 1998	Arena F, Dario R, Parmaliana A	242
2015 4-2015	Nanosized IrO _x and IrRuO _x electrocatalysts for the O ₂ evolution reaction in PEM water electrolyzers. Applied Catalysis B: Environmental, 164, pp.488-495, 2015	Siracusano S, Van Dijk N, Payne-Johnson E, Baglio V,	242
2003 5-2003	Influence of the acid-base characteristics of inorganic fillers on the high temperature performance of composite membranes in direct methanol fuel cells. Solid State Ionics, 161, pp.251-265, 2003	Aricò AS, Baglio V, Di Blasi A, Creti P, Antonucci PL, Antonucci V	241
2013 34-2013	Effects of oxide carriers on surface functionality and process performance of the Cu-ZnO system in the synthesis of methanol via CO ₂ hydrogenation. Journal of Catalysis, 300, pp.141-151, 2013	Arena F, Mezzatesta G, Zafarana G, Trunfio G, Frusteri F, Spadaro L	237
33-2013	Polymer electrolyte membrane water electrolysis: Status of technologies and potential applications in combination with renewable power sources. Journal of Applied Electrochemistry, 43 (2), pp.107-118, 2013	Aricò AS, Siracusano S, Briguglio N, Baglio V, Di Blasi A, Antonucci V	236
2003 3-2003	Hydrogen production by auto-thermal reforming of ethanol on Rh/Al ₂ O ₃ catalyst. Journal of Power Sources, 123 (1), 10-16, 2003	Cavallaro S, Chiodo V, Vita A, Freni S	234
2002 6-2002	Effect of Pt-Ru alloy composition on high-temperature methanol electro-oxidation. Electrochimica Acta, vol. 47, pp.3723-3732,	Aricò AS, Antonucci PL, Modica E, Baglio V, Kim H, Antonucci	232
1995 132	Investigation of a carbon-supported quaternary Pt-Ru-Sn-W catalyst for direct methanol fuel cells. Journal of Power Sources, 55 (2), 159-166, 1995	Aricò AS, Poltarzewski Z, Kim H, Morana A, Giordano N, Antonucci V	231
1990 42	Temperature programmed reduction study of NiO-MgO interaction in magnesia supported Ni catalysts and NiO-MgO physical mixture. Journal of the Chemical Society, Faraday Transactions, 86 (14), 2663-2669, 1990	Parmaliana A, Arena F, Frusteri F, Giordano N	227
1999 255	An empirical equation for polymer electrolyte fuel cell (PEFC) behaviour. Journal of Applied Electrochemistry, vol.29, 1449-1455, 1999	Squadrito G, Maggio G, Passalacqua E, Lufrano F, Patti	227

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2015 8-2015	SAPO-34 coated adsorbent heat exchanger for adsorption chillers. Applied Thermal Engineering, 82, pp.1-7, 2015	Freni A, Bonaccorsi L, Calabrese L, Capri A, Frazzica A, Sapienza A	227
1996 A1	Ethanol steam reforming in a molten carbonate fuel cell. A preliminary kinetic investigation. International Journal of Hydrogen Energy, Vol.21, 465-469, 1996	Cavallaro S, Freni S	224
2006 28-2006	Steam and auto-thermal reforming of bio-ethanol over MgO and CeO ₂ Ni supported catalysts. International Journal of Hydrogen Energy, 31 (15), 2193-2199, 2006	Frusteri F, Freni S, Chiodo V, Donato S, Bonura G, Cavallaro S	222
2001 290	Effects of the diffusion layer characteristics on the performance of polymer electrolyte fuel cells electrodes. Journal of Applied Electrochemistry, vol.31, pp.449-454, 2001	Passalacqua E, Squadrito G, Lufano F, Patti A, Giorgi L	218
2007 25-2007	Investigation of a Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-δ} based cathode SOFC. II. The effect of CO ₂ on the chemical stability. Applied Catalysis B: Environmental, 76 (3-4), 320-327, 2007	Yan A, Maragou V, Aricò AS, Cheng M, Tsiakaras P	213
2018 43-2018	CO ₂ recycling to dimethyl ether: State-of-the-art and perspectives. Molecules, 23 (1), art. no. 31, 2018	Catizzone E, Bonura G, Migliori M, Frusteri F, Giordano G	209
2020 2-2020	CO and CO ₂ methanation over Ni catalysts supported on CeO ₂ , Al ₂ O ₃ and Y ₂ O ₃ oxides. Applied Catalysis B: Environmental, 264, art. no. 118494, 2020	Italiano C, Llorca J, Pino L, Ferraro M, Antonucci V, Vita A	208
2001 286	Modeling polymer electrolyte fuel cells: An innovative approach. Journal of Power Sources, Vol.101, pp.275-286, 2001	Maggio G, Recupero V, Pino L	203
2004 1-2004	Selective water sorbent for solid sorption chiller: Experimental results and modelling. International Journal of Refrigeration, 27, pp.284-293, 2004	Restuccia G, Freni A, Vasta S, Aristov YI	203
1999 240	Thermodynamic based comparison of sorption systems for cooling and heat pumping. International Journal of Refrigeration, 22 (1), 5-17, 1999	Pons M, Meunier F, Cacciola G, Critoph RE, Groll M, Puigjaner L, Spinner B, Ziegler F	200
2019 37-2019	How the hydrogen production from RES could change energy and fuel markets: A review of recent literature. International Journal of Hydrogen Energy, 44 (23), pp.11371-11384, 2019	Maggio G, Nicita A, Squadrito G	199
1995 133	Reversible adsorption heat pump: a thermodynamic model. International Journal of Refrigeration, 18 (2), 100-106, 1995	Cacciola G, Restuccia G	196
1998 215	Influence of the structure in low-Pt loading electrodes for polymer electrolyte fuel cells. Electrochimica Acta, 43 (24), 3665-3673,	Passalacqua E, Lufano F, Squadrito G, Patti A, Giorgi L	193
2001 298	Hydrogen produced from ethanol for internal reforming molten carbonate fuel cell. Journal of Power Sources, Vol.102, 198-204, 2001	Cavallaro S, Mondello N, Freni S	193
2000 269	Influence of flow field design on the performance of a direct methanol fuel cell. Journal of Power Sources, vol.91, pp.202-209, 2000	Aricò AS, Creti P, Baglio V, Modica E, Antonucci V	191
2002 3-2002	Steam reforming of ethanol on Ni/MgO catalysts: H ₂ production for MCFC. Journal of Power Sources, vol. 108, 53-57, 2002	Freni S, Cavallaro S, Mondello N, Spadaro L, Frusteri F	190
2010 18-2010	Catalytic features of Rh and Ni supported catalysts in the steam reforming of glycerol to produce hydrogen. Applied Catalysis A: General, 381 (1-2), 1-7, 2010	Chiodo V, Freni S, Galvagno A, Mondello N, Frusteri F	190
2014 18-2014	Effects of natural fibres reinforcement in lime plasters (kenaf and sisal vs. Polypropylene). Construction and Building Materials, 58, pp.159-165, 2014	Di Bella G, Fiore V, Galtieri G, Borsellino C, Valenza A	190
2006 22-2006	ZrO ₂ -Nafion composite membranes for polymer electrolyte fuel cells (PEFCs) at intermediate temperature. Journal of Power Sources, 163 (1), 47-51, 2006	Saccà A, Gatto I, Carbone A, Pedicini R, Passalacqua E	185

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2001 282	Physical and morphological characteristics and electrochemical behaviour in PEM fuel cells of PtRu/C catalysts. Journal of Solid State Electrochemistry, 5 (2), 131-140, 2001	Antolini E, Giorgi L, Cardellini F, Passalacqua E	184
2010 28-2010	Energy certification of buildings: A comparative analysis of progress towards implementation in European countries. Energy Policy, 38 (10), 5840-5866, 2010	Andaloro APF, Salomone R, Ioppolo G, Andaloro L	182
2006 32-2006	Kinetics of water adsorption on silica Fuji Davison RD. Microporous and Mesoporous Materials, 96 (1-3), 65-71, 2006	Aristov YI, Tokarev MM, Freni A, Glaznev IS, Restuccia G	178
1999 246	Synthesis and characterization of proton-conducting materials containing dodecatungstophosphoric and dodecatungstosilic acid supported on silica. Journal of Power Sources, 79, 250-255, 1999	Staiti P, Freni S, Hočevár S	175
2009 13-2009	A variant of the Hubbert curve for world oil production forecasts. Energy Policy, 37 (11), 4761-4770, 2009	Maggio G, Cacciola G	175
2010 10-2010	Electrochemical characterization of single cell and short stack PEM electrolyzers based on a nanosized IrO ₂ anode electrocatalyst. International Journal of Hydrogen Energy, 35	Siracusano S, Baglio V, Di Blasi A, Briguglio N, Stassi A, Ornelas R, Trifoni E, Antonucci V, Aricò AS	175
1999 244	Effect of carbon-supported and unsupported Pt-Ru anodes on the performance of solid-polymer-electrolyte direct methanol fuel cells. Journal of Applied Electrochemistry, 29, 671-676, 1999	Aricò AS, Shukla AK, El-Khatib KM, Creti P, Antonucci V	172
2007 31-2007	Basic evidence of the molecular dispersion of MnCeO _x catalysts synthesized via a novel "redox-precipitation" route. Chemistry of Materials, 19 (9), 2269-2276, 2007	Arena F, Trunfio G, Negro J, Fazio B, Spadaro L	170
2001 279	Influence of composition and acid treatment on proton conduction of composite polybenzimidazole membranes. Journal of Power Sources, 94 (1), 9-13, 2001	Staiti P, Minutoli M	168
2015 5-2015	Multifunctionality of Cu-ZnO-ZrO ₂ /H-ZSM5 catalysts for the one-step CO ₂ -to-DME hydrogenation reaction. Applied Catalysis B: Environmental, 162, pp.57-65, 2015	Frusteri F, Cordaro Mn, Cannilla C, Bonura G	168
2009 16-2009	Preparation and characterization of titanium suboxides as conductive supports of IrO ₂ electrocatalysts for application in SPE electrolyzers. Electrochimica Acta, 54, 6292-6299, 2009	Siracusano S, Baglio V, D'Urso C, Antonucci v, Aricò AS	165
2011 6-2011	Artichoke (Cynara cardunculus L.) fibres as potential reinforcement of composite structures. Composites Science and Technology, 71 (8), 1138-1144, 2011	Fiore V, Valenza A, Di Bella G	164
2017 14-2017	Enhanced performance and durability of low catalyst loading PEM water electrolyser based on a short-side chain perfluorosulfonic ionomer. Applied Energy, 192, pp.477-489, 2017	Siracusano S, Baglio V, Van Dijk N, Merlo L, Aricò AS	164
2015 22-2015	Solvent free depolymerization of Kraft lignin to alkyl-phenolics using supported NiMo and CoMo catalysts. Green Chemistry, 17 (11), pp.4921-4930, 2015	Kumar CR, Anand N, Kloekhorst A, Cannilla C, Bonura G, Frusteri F, Barta K, Heeres HJ	163
1991 64	Analysis of platinum particle size and oxygen reduction in phosphoric acid. Electrochimica Acta, 36 (13), 1979-1984, 1991	Giordano N, Passalacqua E, Pino L, Aricò AS, Antonucci V, Vivaldi M, Kinoshita K	161
2006 29-2006	Kinetics of water sorption on SWS-IL (calcium chloride confined to mesoporous silica gel): Influence of grain size and temperature. Chemical Engineering Science, Vol. 61, pp.1453-1458, 2006	Aristov YI, Glaznev IS, Freni A, Restuccia G	160
2012 20-2012	An electrochemical study of a PEM stack for water electrolysis. International Journal of Hydrogen Energy, 37 (2), 1939-1946,	Siracusano S, Baglio V, Briguglio N, Brunaccini G, Di Blasi A, Stassi A, Ornelas R, Trifoni E, Antonucci V, Aricò AS	160

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1999 239	An X-ray photoelectron spectroscopic study on the effect of Ru and Sn additions to platinised carbons. <i>Applied Surface Science</i> , vol. 137, pp.20-29, 1999	Shukla AK, Aricò AS, El-Khatib KM, Kim H, Antonucci PL, Antonucci V	158
2004 8-2004	Characterization of carbon nanotubes by TEM and infrared spectroscopy. <i>Journal of Physical Chemistry B: Materials</i> , 108 (11), 3469-3473, 2004	Branca C, Frusteri F, Magazù V, Mangione A	158
2000 265	Investigation of direct methanol fuel cells based on unsupported Pt-Ru anode catalysts with different chemical properties. <i>Electrochimica Acta</i> , vol. 45, pp.4319-4328, 2000	Aricò AS, Cretì P, Modica E, Monforte G, Baglio V, Antonucci V	157
2012 40-2012	Reallocation of adsorption and desorption times for optimisation of cooling cycles. <i>International Journal of Refrigeration</i> , 35 (3), 525-531, 2012	Aristov YI, Sapienza A, Ovoshchnikov DS, Freni A, Restuccia G	157
2013 43-2013	Investigation of several graphite-based electrodes for vanadium redox flow cell. <i>Journal of Power Sources</i> , 227, pp.15-23, 2013	Di Blasi A, Di Blasi O, Briguglio N, Aricò AS, Sebastián D, Lázaro MJ, Monforte G, Antonucci V	155
2012 34-2012	Highly sensitive ammonia resistive sensor based on electrospun V_2O_5 fibers. <i>Sensors and Actuators B: Chemical</i> , 163 (1), 61-68, 2012	Modafferi V, Panzera G, Donato A, Antonucci PL, Cannilla C, Donato N, Spadaro D, Neri Gv	154
2003 4-2003	Analysis of the high-temperature methanol oxidation behaviour at carbon-supported Pt-Ru catalysts. <i>Journal of Electroanalytical Chemistry</i> , 557 pp.167-176, 2003	Aricò AS, Baglio V, Di Blasi A, Modica E, Antonucci PL, Antonucci V	153
2011 23-2011	Performance comparison of long and short-side chain perfluorosulfonic membranes for high temperature polymer electrolyte membrane fuel cell operation. <i>Journal of Power Sources</i> , 196 (21), 8925-8930, 2011	Stassi A, Gatto I, Passalacqua E, Antonucci V, Aricò AS, Merlo L, Oldani C, Pagano E	153
1992 76	Nafion distribution in gas diffusion electrodes for Solid-Polymer-Electrolyte-Fuel-Cell applications. <i>Journal of the Electrochemical Society</i> , 139 (3), 761-765, 1992	Poltarzewski Z, Staiti P, Alderucci V, Wieczorek W, Giordano N	152
2013 2-2013	Hybrid Cu-ZnO-ZrO ₂ /H-ZSM ₅ system for the direct synthesis of DME by CO ₂ hydrogenation. <i>Applied Catalysis B: Environmental</i> , 140-141, pp.16-24, 2013	Bonura G, Cordaro Mn, Spadaro L, Cannilla C, Arena F, Frusteri F	152
1998 216	Optimization of operating parameters of a direct methanol fuel cell and physico-chemical investigation of catalyst-electrolyte interface. <i>Electrochimica Acta</i> , 43 (24), 3719-3729, 1998	Aricò AS, Cretì P, Antonucci PL, Cho J, Kim H, Antonucci V	151
2010 13-2010	Mesoporous carbon materials as electrodes for electrochemical supercapacitors. <i>International Journal of Electrochemical Science</i> , 5 (6), 903-916, 2010	Lufrano F, Staiti P	151
2009 8-2009	Basic evidences for methanol-synthesis catalyst design. <i>Catalysis Today</i> , 143, 80-85, 2009	Arena F, Italiano G, Barbera K, Bonura G, Spadaro L, Frusteri F	150
2008 16-2008	Performance and degradation of high temperature polymer electrolyte fuel cell catalysts. <i>Journal of Power Sources</i> , 178, 525-536, 2008	Aricò AS, Stassi A, Modica E, Ornelas R, Gatto I, Passalacqua E, Antonucci V	149
1995 147	Methanol electrooxidation on carbon-supported Pt-WO _{3-x} electrodes in sulphuric acid electrolyte. <i>Journal of Applied Electrochemistry</i> , 25, pp.528-532, 1995	Shukla AK, Ravikumar MK, Aricò AS, Candiano G, Antonucci V, Giordano N, Hamnett A	147
2001 297	Potassium-enhanced stability of Ni/MgO catalysts in the dry-reforming of methane. <i>Catalysis Communications</i> , vol.2, pp.49-56, 2001	Frusteri F, Arena F, Calogero G, Torre T, Parmaliana A	147
2020 39-2020	Green hydrogen as feedstock: Financial analysis of a photovoltaic-powered electrolysis plant. <i>International Journal of Hydrogen Energy</i> , 45 (20), pp.11395-11408, 2020	Nicita A, Maggio G, Andaloro APF, Squadrito G	147

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2017 58-2017	Dealing with fuel contaminants in biogas-fed solid oxide fuel cell (SOFC) and molten carbonate fuel cell (MCFC) plants: Degradation of catalytic and electro-catalytic active surfaces and related gas purification methods. Progress in Energy and Combustion Science, 61, pp.150-188, 2017	Lanzini A, Madi H, Chiodo V, Papurello D, Maisano S, Santarelli M, Van Herle J	146
2004 15-2004	Selective hydrogenation of α - β -unsaturated ketones to α - β unsaturated alcohols on gold supported catalysts. Journal of Catalysis, 222 (2), 348-356, 2004	Milone C, Ingoglia R, Pistone A, Neri Gv, Frusteri F, Galvagno S	145
2007 4-2007	An advanced solid sorption chiller using SWS-1L. Applied Thermal Engineering, vol.27, pp.2200-2204, 2007	Freni A, Russo F, Vasta S, Tokarev MM, Aristov YI, Restuccia G	145
2013 41-2013	Performance analysis of polymer electrolyte membranes for direct methanol fuel cells. Journal of Power Sources, 243, pp.519-534, 2013	Lufrano F, Baglio V, Staiti P, Antonucci V, Aricò AS	144
2009 15-2009	Preparation and evaluation of RuO ₂ -IrO ₂ , IrO ₂ -Pt and IrO ₂ -Ta ₂ O ₅ catalysts for the oxygen evolution reaction in an SPE electrolyzer. Journal of Applied Electrochemistry, 39, 191-196,	Di Blasi A, D'Urso C, Baglio V, Antonucci V, Aricò AS, Ornelas R, Matteucci F, Orozco G, Beltran D, Meas Y, Arriaga LG	143
1996 154	Ethanol steam reforming in a molten carbonate fuel cell: a thermodynamic approach. Journal of Power Sources, Vol. 62, pp.67-73, 1996	Freni S, Maggio G, Cavallaro S	142
2001 280	Rh based catalysts for indirect internal reforming ethanol applications in molten carbonate fuel cells. Journal of Power Sources, 94 (1), 14-19, 2001	Freni S	139
1998 218	Light alcohols/methane fuelled molten carbonate fuel cells: a comparative study. Journal of Power Sources, 74 (1), 17-23, 1998	Maggio G, Freni S, Cavallaro S	138
2002 18-2002	Catalytic partial-oxidation of methane on a ceria-supported platinum catalyst for application in fuel cell electric vehicles. Applied Catalysis A: General, vol.225, pp.63-75, 2002	Pino L, Recupero V, Beninati S, Shukla AK, Hedge MS, Bera P	138
2008 20-2008	High temperature operation of a composite membrane-based solid polymer electrolyte water electrolyser. Electrochimica Acta, 53, 7350-7356, 2008	Antonucci V, Di Blasi A, Baglio V, Ornelas R, Matteucci F, Ledesma-Garcia J, Arriaga LG, Aricò AS	138
1999 248	Structure and dispersion of supported vanadia catalysts. Influence of the oxide carrier. Applied Catalysis A: General, 176 (2), 189-199, 1999	Arena F, Frusteri F, Parmaliana	137
2004 14-2004	CO selective oxidation on ceria-supported Au catalysts for fuel cell application. Journal of Power Sources, 135 (1-2), 177-183, 2004	Panzer G, Modafferi V, Candamano S, Donato A, Frusteri F, Antonucci PL	137
2017 11-2017	A new approach to calculating endurance in electric flight and comparing fuel cells and batteries. Applied Energy, 187, pp.807-819, 2017	Donato T, Ficarella A, Spedicato L, Arista A, Ferraro M	137
2003 8-2003	A comparative study of Pt/CeO ₂ catalysts for catalytic partial oxidation of methane to syngas for application in fuel cell electric vehicles. Applied Catalysis A: General, 243, pp.135-146, 2003	Pino L, Vita A, Cordaro Mn, Recupero V, Hedge MS	136
2005 16-2005	Metal-support interactions and reactivity of Co/CeO ₂ catalysts in the Fischer-Tropsch synthesis reaction. Journal of Catalysis, 234 (2), 451-462, 2005	Spadaro L, Arena F, Lopez Granados M, Ojeda M, Fierro JLG, Frusteri F	135
2014 13-2014	Catalytic behaviour of a bifunctional system for the one step synthesis of DME by CO ₂ hydrogenation. Catalysis Today, 228, pp.51-57, 2014	Bonura G, Cordaro Mn, Cannilla C, Mezzapica A, Spadaro L, Arena F, Frusteri F	135
1992 80	The influence of Pt on the electrooxidation behaviour of carbon in phosphoric acid. Electrochimica Acta, 37 (15), 2725-2730, 1992	Passalacqua E, Antonucci PL, Vivaldi M, Patti A, Antonucci V, Giordano N, Kinoshita K	134

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1999 247	Improvement in the diffusion characteristics of low Pt-loaded electrodes for PEFCs. Journal of Applied Electrochemistry, vol.29, pp.445-448, 1999	Lufrano F, Passalacqua E, Squadrito G, Patti A, Giorgi L	132
2006 23-2006	Sulphonated poly(ether ether ketone) membranes for fuel cell application: Thermal and structural characterisation. Journal of Power Sources, 163 (1), 18-26, 2006	Carbone A, Pedicini R, Portale G, Longo A, D'Ilario L, Passalacqua E	132
2001 285	Proton conductive membranes based on silicotungstic acid/silica and polybenzimidazole. Materials Letters, Vol.47, pp.241-246,	Staiti P	131
2016 10-2016	Comparative analysis of promising adsorbent/adsorbate pairs for adsorptive heat pumping, air conditioning and refrigeration. Applied Thermal Engineering, 104, pp.85-95, 2016	Freni A, Maggio G, Sapienza A, Frazzica A, Restuccia G, Vasta S	131
2002 8-2002	A zeolite-coated bed for air conditioning adsorption systems: Parametric study of heat and mass transfer by dynamic simulation. Applied Thermal Engineering, 22 (6), 619-630, 2002	Restuccia G, Freni A, Maggio G	130
2015 1-2015	Stepwise tuning of metal-oxide and acid sites of CuZnZr-MFI hybrid catalysts for the direct DME synthesis by CO ₂ hydrogenation. Applied Catalysis B: Environmental, 176-177, pp.522-531, 2015	Frusteri F, Bonura G, Cannilla C, Drago Ferrante G, Aloise A, Catizzone E, Migliori M, Giordano G	130
1994 114	On the role of surface functional groups in Pt-carbon interaction. Journal of Applied Electrochemistry, 24, pp.58-65, 1994	Antonucci PL, Alderucci V, Giordano N, Cocke DL, Kim H	128
2015 23-2015	Efficient catalytic hydrotreatment of Kraft lignin to alkylphenolics using supported NiW and NiMo catalysts in supercritical methanol. Green Chemistry, 17 (11), pp.5046-5057, 2015	Narani A, Chowdari RK, Cannilla C, Bonura G, Frusteri F, Heeres HJ, Barta K	128
2017 57-2017	Insights on the extraordinary tolerance to alcohols of Fe-N-C cathode catalysts in highly performing direct alcohol fuel cells. Nano Energy, 34, pp.195-204, 2017	Sebastián D, Serov A, Matanovic I, Artyushkova K, Atanassov P, Aricò AS, Baglio V	128
1997 186	Working mechanism of oxide catalysts in the partial oxidation of methane to formaldehyde - II. Redox properties and reactivity of SiO ₂ , MoO ₃ /SiO ₂ , V ₂ O ₅ /SiO ₂ , TiO ₂ , and V ₂ O ₅ /TiO ₂ systems. Journal of Catalysis, Vol. 167, pp.66-76, 1997	Arena F, Giordano N, Parmaliana A	127
2003 6-2003	Evaluation of Nafion based double layer capacitors by electrochemical impedance spectroscopy. Journal of Power Sources, 124, pp.314-320, 2003	Lufrano F, Staiti P, Minutoli M	127
2017 51-2017	The influence of iridium chemical oxidation state on the performance and durability of oxygen evolution catalysts in PEM electrolysis. Journal of Power Sources, 366, pp.105-114, 2017	Siracusano S, Baglio V, Grigoriev SA, Merlo L, Fateev VN, Aricò AS	127
2018 7-2018	Activity and stability of powder and monolith-coated Ni/GDC catalysts for CO ₂ methanation. Applied Catalysis B: Environmental, 226, pp.384-395, 2018	Vita A, Italiano C, Pino L, Frontera P, Ferraro M, Antonucci V	127
1996 152	High performance fuel cell based on phosphotungstic acid as proton conducting electrolyte. Electrochimica Acta, 41 (3), 397-	Giordano N, Staiti P, Hočevár S, Aricò AS	126
2014 2-2014	Hydrogen from biogas: Catalytic tri-reforming process with Ni/LaCeO mixed oxides. Applied Catalysis B: Environmental, 148-149, pp.91-105, 2014	Pino L, Vita A, Laganà M, Recupero V	126
2017 3-2017	Structure-activity relationships of Fe-Co/K-Al ₂ O ₃ catalysts calcined at different temperatures for CO ₂ hydrogenation to light olefins. Applied Catalysis A: General, 547, pp.219-229, 2017	Numpilai T, Witton T, Chanlek N, Limphirat W, Bonura G, Chareonpanich M, Limtrakul J	126
2011 20-2011	Nanosized IrO ₂ electrocatalysts for oxygen evolution reaction in an SPE electrolyzer. Journal of Nanoparticle Research, 13 (4), 1639-1646, 2011	Cruz JC, Baglio V, Siracusano S, Ornelas R, Ortiz-Frade L, Arriaga LG, Antonucci V, Aricò	125
2001 293	An appraisal of electric automobile power sources. Renewable and Sustainable Energy Reviews, 5 (2), 137-155, 2001	Shukla AK, Aricò AS, Antonucci V	124

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2011 7-2011	Influence of the management strategy and operating conditions on the performance of an adsorption chiller. Energy, 36 (9), 5532-5538, 2011	Sapienza A, Santamaria S, Frazzica A, Freni A	124
2013 35-2013	Surface-dependent oxidation of H ₂ on CeO ₂ surfaces. Journal of Catalysis, 297, pp.193-201, 2013	Désaunay T, Bonura G, Chiodo V, Freni S, Couzinié J-P, Bourgon J, Ringuedé A, Labat F, Adamo C, Cassir M	124
1994 112	Methanol oxidation on carbon-supported platinum-tin electrodes in sulfuric acid. Journal of Power Sources, Vol.50, 295-309, 1994	Aricò AS, Antonucci V, Giordano N, Shukla AK, Ravikumar MK, Roy A, Barman SR, Sarma DD	123
1996 170	Selective hydrogenation of acetylene in ethylene feedstocks on Pd catalysts. Applied Catalysis A: General, 146 (2), 269-284, 1996	Duca D, Frusteri F, Parmaliana A, Deganello G	123
2004 5-2004	Performance of DMFC anodes with ultra-low Pt loading. Electrochemistry Communications, vol.6, 164-169, 2004	Aricò AS, Baglio V, Modica E, Di Blasi A, Antonucci V	123
2006 3-2006	Zeolite coated copper foams for heat pumping applications. Microporous and Mesoporous Materials, 91 (1-3), 7-14, 2006	Bonaccorsi L, Freni A, Proverbio E, Restuccia G, Russo F	123
2012 23-2012	Mechanical behavior of carbon/flax hybrid composites for structural applications. Journal of Composite Materials, 46 (17), 2089-2096, 2012	Fiore V, Valenza A, Di Bella G	123
2011 5-2011	Role of the ceria promoter and carrier on the functionality of Cu-based catalysts in the CO ₂ -to-methanol hydrogenation reaction. Catalysis Today, 171 (1), 251-256, 2011	Bonura G, Arena F, Mezzatesta G, Cannilla C, Spadaro L, Frusteri F	122
2009 5-2009	Water sorption on composite "silica modified by calcium nitrate". Microporous and Mesoporous Materials, 122 (1-3), 223-228, 2009	Simonova IA, Freni A, Restuccia G, Aristov YI	121
2008 12-2008	Polymer electrolytes based on sulfonated polysulfone for direct methanol fuel cells. Journal of Power Sources, 179, 34-41, 2008	Lufrano F, Baglio V, Staiti P, Aricò AS, Antonucci V	120
2012 37-2012	Enhanced oxygen reduction activity and durability of Pt catalysts supported on carbon nanofibers. Applied Catalysis B: Environmental, 115-116, pp.269-275, 2012	Sebastián D, García Ruiz A, Suelves I, Moliner R, Lázaro MJ, Baglio V, Stassi A, Aricò AS	120
2016 4-2016	Performance analysis of a non-platinum group metal catalyst based on iron-aminoantipyrine for direct methanol fuel cells. Applied Catalysis B: Environmental, 182, pp.297-305, 2016	Sebastián D, Baglio V, Aricò AS, Serov A, Atanassov P	120
2017 59-2017	Electric vehicle charging infrastructure planning in a road network. Renewable and Sustainable Energy Reviews, 80, pp.98-108, 2017	Micari S, Polimeni A, Napoli G, Andaloro L, Antonucci V	120
2000 259	Factors controlling the selectivity of V ₂ O ₅ supported catalysts in the oxidative dehydrogenation of propane. Catalysis Today, vol.63, pp.197-207, 2000	Martra G, Arena F, Coluccia S, Frusteri F, Parmaliana A	119
2003 9-2003	FTIR spectroscopic investigation of inorganic fillers for composite DMFC membranes. Electrochemistry Communications, vol.5, pp.862-866, 2003	Aricò AS, Baglio V, Di Blasi A, Antonucci V	119
2005 22-2005	Structure and reactivity in the selective oxidation of methane to formaldehyde of low-loaded FeO _x /SiO ₂ catalysts. Journal of Catalysis, 231 (2), 365-380, 2005	Arena F, Gatti G, Martra G, Coluccia S, Stievano L, Spadaro L, Famulari P, Parmaliana A	119
2007 11-2007	Bio-ethanol, a suitable fuel to produce hydrogen for a molten carbonate fuel cell. Journal of Power Sources, 137, 200-209, 2007	Frusteri F, Freni S	119
2013 6-2013	How oxide carriers control the catalytic functionality of the Cu-ZnO system in the hydrogenation of CO ₂ to methanol. Catalysis Today, 210, pp.39-46, 2013	Arena F, Mezzatesta G, Zafarana G, Trunfio G, Frusteri F, Spadaro L	119
2004 7-2004	Performance improvement of Nafion based solid state electrochemical supercapacitor. Electrochimica Acta, 49, 2683-2689, 2004	Lufrano F, Staiti P	118

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2009 34-2009	Exergy recovery during LNG regasification: Electric energy production - Part one. Applied Thermal Engineering, 29 (2-3), 380-387, 2009	Dispenza C, Dispenza G, La Rocca V, Panno G	118
1994 128	Electro-oxidation of methanol in sulfuric acid electrolyte platinized-carbon on electrodes with several functional-group characteristics. Journal of the Electrochemical Society, 141 (6),	Shukla AK, Ravikumar MK, Roy A, Barman SR, Sarma DD, Aricò AS, Antonucci V, Pino L, Giordano N	117
2017 49-2017	Direct CO ₂ -to-DME hydrogenation reaction: New evidences of a superior behaviour of FER-based hybrid systems to obtain high DME yield. Journal of CO ₂ Utilization, 18, pp.353-361, 2017	Frusteri F, Migliori M, Cannilla C, Frusteri L, Catizzzone E, Aloise A, Giordano G, Bonura G	117
2006 2-2006	Probing the factors affecting structure and activity of the Au/CeO ₂ system in total and preferential oxidation of CO. Applied Catalysis B: Environmental, vol.66, pp.81-91, 2006	Arena F, Famulari P, Trunfio G, Bonura G, Frusteri F, Spadaro L	116
2016 24-2016	Pyrolysis of different biomass: Direct comparison among Posidonia Oceanica, Lacustrine Alga and White-Pine. Fuel, 164, pp.220-227, 2016	Chiodo V, Zafarana G, Maisano S, Freni S, Urbani F	116
1996 174	Selective water sorbents for multiple applications, 2. CaCl ₂ confined in micropores of silica gel: sorption properties. Reaction Kinetics and Catalysis Letters, 59 (2), 335-342, 1996	Aristov YI, Tokarev MM, Restuccia G, Cacciola G	114
2001 307	Preparation, characterization and proton conductivity of titanium phosphate sulfophenylphosphonate. Solid State Ionics, vol.145, pp.249-255, 2001	Alberti G, Costantino U, Casciola M, Ferroni S, Massinelli L, Staiti P	114
2002 4-2002	A non-uniform temperature non-uniform pressure dynamic model of heat and mass transfer in compact adsorbent beds. International Journal of Heat and Mass Transfer, vol.45, pp.3321-3330, 2002	Marletta L, Maggio G, Freni A, Ingrassiotta M, Restuccia G	114
2003 7-2003	Investigation of grafted ETFE-based polymer membranes as alternative electrolyte for direct methanol fuel cells. Journal of Power Sources, 123, pp.107-115, 2003	Aricò AS, Baglio V, Creti P, Di Blasi A, Antonucci V, Brunea J, Chapotot A, Bozzi A, Schoemans J	114
2011 8-2011	Preparation and characterization of RuO ₂ catalysts for oxygen evolution in a solid polymer electrolyte. International Journal of Electrochemical Science, 6 (12), 6607-6619, 2011	Cruz JC, Baglio V, Siracusano S, Antonucci V, Aricò AS, Ornelas R, Ortiz-Frade L, Osorio-Monreal G, Durón-Torres SM, Arriaga LG	114
2009 23-2009	Finite element-based simulation of a metal hydride-based hydrogen storage tank. International Journal of Hydrogen Energy, 34 (20), 8574-8582, 2009	Freni A, Cipiti F, Cacciola G	112
2016 18-2016	High performance and cost-effective direct methanol fuel cells: Fe-N-C methanol-tolerant oxygen reduction reaction catalysts. ChemSusChem, 9 (15), pp.1986-1995, 2016	Sebastián D, Serov A, Artyushkova K, Gordon J, Atanassov P, Aricò AS, Baglio V	112
2017 1-2017	Efficient catalytic conversion of ethanol to 1-butanol via the Guerbet reaction over copper- and nickel-doped porous metal oxides. ACS Sustainable Chemistry and Engineering, 5 (2), pp.1738-1746, 2017	Sun Z, Couto Vasconcelos A, Bottari G, Stuart MCA, Bonura G, Cannilla C, Frusteri F, Barta K	112
56-2017	New insights into the stability of a high performance nanostructured catalyst for sustainable water electrolysis. Nano Energy, 40, pp.618-632, 2017	Siracusano S, Hodnik N, Jovanović P, Ruiz-Zepeda F, Šala M, Baglio V, Aricò AS	112
2011 19-2011	Optimization of components and assembling in a PEM electrolyzer stack. International Journal of Hydrogen Energy, 36 (5), 3333-3339, 2011	Siracusano S, Di Blasi A, Baglio V, Brunaccini G, Briguglio N, Stassi A, Ornelas R, Trifoni E, Antonucci V, Aricò AS	111
2012 11-2012	Fuel flexibility: A key challenge for SOFC technology. Fuel, 102, pp.554-559, 2012	Lo Faro M, Antonucci V, Antonucci PL, Aricò AS	110

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2012 5-2012	Adsorption chilling driven by low temperature heat: New adsorbent and cycle optimization. Applied Thermal Engineering, 32 (1), 141-146, 2012	Sapienza A, Glaznev IS, Santamaria S, Freni A, Aristov	110
1995 139	Composites of activated carbon for refrigeration adsorption machines. Carbon, 33 (9), 1205-1210, 1995	Cacciola G, Restuccia G, Mercadante L	109
2004 3-2004	Potassium improved stability of Ni/MgO in the steam reforming of ethanol for the production of hydrogen for MCFC. Journal of Power Sources, 132 (1-2), 139-144, 2004	Frusteri F, Freni S, Chiodo V, Spadaro L, Bonura G, Cavallaro	109
2000 271	Hydrogen production by steam reforming of ethanol: A two step process. Reaction Kinetics and Catalysis Letters, 71 (1), 143-152, 2000	Freni S, Mondello N, Cavallaro S, Cacciola G, Parmon VN, Sobyenin VA	108
2017 10-2017	Synthesis of flexible electrodes based on electrospun carbon nanofibers with Mn ₃ O ₄ nanoparticles for vanadium redox flow battery application. Applied Energy, 190, pp.165-171, 2017	Di Blasi A, Busacca C, Di Blasi O, Briguglio N, Squadrito G, Antonucci V	108
1989 28	The influence of functional groups on the surface acid base characteristics of carbon blacks. Carbon, 27 (2), 337-347, 1989	Aricò AS, Antonucci V, Minutoli M, Giordano N	107
1991 61	Magnesia-supported nickel catalysts. I. Factors affecting the structure and morphological properties. Journal of Catalysis, Vol. 132, pp.58-67, 1991	Arena F, Horrell BA, Cocke DL, Parmaliana A, Giordano N	107
1993 88	Magnesia-supported nickel catalysts. II Surface properties and reactivity in methane steam reforming. Journal of Catalysis, Vol. 141, pp.34-47, 1993	Parmaliana A, Arena F, Frusteri F, Coluccia S, Marchese L, Martra G, Chuvilin AL	107
2011 9-2011	Influence of TiO ₂ film thickness on the eletrochemical behaviour of dye-sensitized solar cells. International Journal of Electrochemical Science, 6 (8), 3375-3384, 2011	Baglio V, Girolamo M, Antonucci V, Aricò AS	107
2007 24-2007	Investigation of bimetallic Pt-M/C as DMFC cathode catalysts. Electrochimica Acta, 53, 1361-1365, 2007	Baglio V, Stassi A, Di Blasi A, D'Urso C, Antonucci V, Aricò	106
2012 21-2012	Development and lab-test of a mobile adsorption air-conditioner. International Journal of Refrigeration, 35 (3), 701-708, 2012	Vasta S, Freni A, Sapienza A, Costa F, Restuccia G	106
1984 p7-1984	Cyclohexane as a liquid phase carrier in hydrogen storage and transport. International Journal of Hydrogen Energy, 9 (5), 411-419, 1984	Cacciola G, Giordano N, Restuccia G	103
1998 204	Selective water sorbents for multiple applications, 5. LiBr confined in mesopores of silica gel: sorption properties. Reaction Kinetics and Catalysis Letters, 63 (1), 81-88, 1998	Gordeeva LG, Restuccia G, Cacciola G, Aristov YI	103
2015 6-2015	Syngas production by methane oxy-steam reforming on Me/CeO ₂ (Me=Rh, Pt, Ni) catalyst lined on cordierite monoliths. Applied Catalysis B: Environmental, 162, pp.551-563, 2015	Vita A, Cristiano G, Italiano C, Pino L, Specchia S	103
1996 162	Modelling of temperature distribution in a solid polymer electrolyte fuel cell stack. Journal of Power Sources, 62, pp.167-	Maggio G, Recupero V, Mantegazza C	102
2002 15-2002	TEM evidence for factors affecting the genesis of carbon species on bare and K-promoted Ni/MgO catalysts during the dry reforming of methane. Carbon, 40 (7), 1063-1070, 2002	Frusteri F, Spadaro L, Arena F, Chuvilin AL	102
2010 24-2010	High temperature operation of a solid polymer electrolyte fuel cell stack based on a new ionomer membrane. Fuel Cells, 10 (6), 1013-1023, 2010	Aricò AS, Di Blasi A, Brunaccini G, Sergi F, Dispenza G, Andaloro L, Ferraro M, Antonucci V, Asher P, Buche S, Fongalland D, Hards GA, Sharman JDB, Bayer A, Heinz G, Zandonà N, Zuber R, Gebert M, Corasaniti M, Ghielmi A, Jones JD	102
2013 28-2013	Biogas as hydrogen source for fuel cell applications. International Journal of Hydrogen Energy, 38 (10), pp.3913-3920, 2013	Galvagno A, Chiodo V, Urbani F, Freni F	102

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2014 49-2014	Life cycle assessment of storage systems: The case study of a sodium/nickel chloride battery. <i>Journal of Cleaner Production</i> , 85, pp.337-346, 2014	Longo S, Antonucci V, Cellura M, Ferraro M	102
2015 24-2015	Recent advances on wet air oxidation catalysts for treatment of industrial wastewaters. <i>Inorganica Chimica Acta</i> , 431, pp.101-109, 2015	Arena F, Di Chio R, Gumina B, Spadaro L, Trunfio G	102
1994 121	Progress on adsorption heat pumps. <i>Heat Recovery Systems & CHP</i> , 14 (4), 409-420, 1994	Cacciola G, Restuccia G	101
1997 185	Working mechanism of oxide catalysts in the partial oxidation of methane to formaldehyde - I. Catalytic behaviour of SiO ₂ , MoO ₃ /SiO ₂ , V ₂ O ₅ /SiO ₂ , TiO ₂ and V ₂ O ₅ /TiO ₂ systems. <i>Journal of Catalysis</i> , Vol. 167, pp.57-65, 1997	Parmaliana A, Arena F	101
1999 252	Novel proton conducting composite electrolytes for application in methanol fuel cells. <i>Solid State Ionics</i> , 119 (1), 301-304, 1999	Poltarzewski Z, Wieczorek W, Przyłuski J, Antonucci V	101
1987 1	Infrared analysis of carbon blacks. <i>Carbon</i> , 25 (3), 325-332, 1987	Rositani F, Antonucci PL, Minutoli M, Giordano N, Villari A	100
2000 A17	Electrooxidation of H ₂ on Pt/C, Pt-Ru/C and Pt-Mo/C anodes for polymer electrolyte fuel cell. <i>Electrochimica Acta</i> , 46 (4), 555-561, 2000	Pozio A, Giorgi L, Antolini E, Passalacqua E	100
1997 164	Composite materials based on zeolite 4A for adsorption heat pumps. <i>Adsorption</i> , 3 (1), 33-40, 1997	Pino L, Aristov YI, Cacciola G, Restuccia G	99
2006 12-2006	Performance of Pt/CeO ₂ catalyst for propane oxidative steam reforming. <i>Applied Catalysis A: General</i> , 306, pp.68-77, 2006	Pino L, Vita A, Cipiti F, Laganà M, Recupero V	99
1991 62	Relationship between physicochemical properties and electrooxidation behavior of carbon materials. <i>Electrochimica Acta</i> , 36 (13), 1931-1935, 1991	Giordano N, Antonucci PL, Passalacqua E, Pino L, Aricò AS, Kinoshita K	98
2010 26-2010	High power fuel cell simulator based on artificial neural network. <i>International Journal of Hydrogen Energy</i> , 35 (21), 12125-12133, 2010	Chávez-Ramírez AU, Muñoz-Guerrero R, Durón-Torres SM, Ferraro M, Brunaccini G, Sergi F, Antonucci V, Arriaga LG	98
2011 15-2011	Investigation of IrO ₂ electrocatalysts prepared by a sulfite-couplex route for the O ₂ evolution reaction in solid polymer electrolyte water electrolyzers. <i>International Journal of Hydrogen Energy</i> , 36 (13), 7822-7831, 2011	Siracusano S, Baglio V, Stassi A, Ornelas R, Antonucci V, Aricò AS	97
2014 6-2014	Water adsorption dynamics on representative pieces of real adsorbers for adsorptive chillers. <i>Applied Energy</i> , 134, pp.11-19, 2014	Santamaria S, Sapienza A, Frazzica A, Freni A, Girmik IS, Aristov YI	97
2018 39-2018	Electrochemical impedance spectroscopy as a diagnostic tool in polymer electrolyte membrane electrolysis. <i>Materials</i> , 11 (8), art. no. 1368, 2018	Siracusano S, Trocino S, Briguglio N, Baglio V, Aricò AS	97
2019 48-2019	Energy and environmental benefits of circular economy strategies: The case study of reusing used batteries from electric vehicles. <i>Journal of Energy Storage</i> , 25, art. no. 100845, 2019	Cusenza MA, Guarino F, Longo S, Ferraro M, Cellura M	96
2013 39-2013	Optimizing the electrochemical performance of aqueous symmetric supercapacitors based on an activated carbon xerogel. <i>Journal of Power Sources</i> , 241, pp.776-782, 2013	Calvo EG, Lufrano F, Staiti P, Brigandi A, Arenillas A, Menéndez JA	95
2009 4-2009	Study and optimisation of manganese oxide-based electrodes for electrochemical supercapacitors. <i>Journal of Power Sources</i> , 187, 284-289, 2009	Staiti P, Lufrano F	94

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2011 29-2011	CdO-based nanostructures as novel CO ₂ gas sensors. Nanotechnology, 22 (32), art. no. 325501, 2011	Krishnakumar T, Jayaprakash R, Prakash T, Sathiyaraj D, Donato N, Licoccia S, Latino M, Stassi A, Neri Gv	94
2014 38-2014	Sulfonated graphene oxide platelets in Nafion nanocomposite membrane: Advantages for application in direct methanol fuel cells. Journal of Physical Chemistry C: Nanomaterials and interfaces, 118 (42), pp.24357-24368, 2014	Nicotera I, Simari C, Coppola L, Zygori P, Gournis D, Brutti S, Minuto FD, Aricò AS, Sebastián D, Baglio V	94
2008 26-2008	Influence of chemistry and topology effects on superhydrophobic CF ₄ -plasma-treated poly(dimethylsiloxane) (PDMS). Langmuir, 24, 1833-1843, 2008	Manca M, Cortese B, Viola I, Aricò AS, Cingolani R, Gigli G	93
2004 24-2004	Preparation and sintering of Ce _{1-x} Gd _x O _{2-x/2} nanopowders and their electrochemical and EPR characterization. Solid State Ionics, Vol. 175, pp.361-366, 2004	Sin A, Dubitsky Y, Zaopo A, Aricò AS, Gullo LR, La Rosa Dn, Siracusano S, Antonucci V, Oliva C, Ballabio O	92
2005 17-2005	Composite mesoporous titania Nafion-based membranes for direct methanol fuel cell operation at high temperature. Journal of the Electrochemical Society, 152 (7), A1373-A1377, 2005	Baglio V, Di Blasi A, Aricò AS, Antonucci V, Antonucci PL, Trakanprapai C, Esposito V, Licoccia S, Traversa E	92
5-2005	Experimental investigation of a solid adsorption chiller based on a heat exchanger coated with hydrophobic zeolite. Applied Thermal Engineering, 25 (10), 1419-1428, 2005	Restuccia G, Freni A, Russo F, Vasta S	92
2007 9-2007	Oxygenated additives production for diesel engine emission improvement. Chemical Engineering Journal, 134, 239-245, 2007	Frusteri F, Spadaro L, Beatrice C, Guido C	92
2011 14-2011	Evaluation of a low temperature fuel cell system for residential CHP. International Journal of Hydrogen Energy, 36 (13), 8023-8029, 2011	Briguglio N, Ferraro M, Brunaccini G, Antonucci V	92
2018 50-2018	Degradation issues of PEM electrolysis MEAs. Renewable Energy, 123, pp.52-57, 2018	Siracusano S, Van Dijk N, Backhouse R, Merlo L, Baglio V, Aricò AS	92
2002 5-2002	All solid electric double layer capacitors based on Nafion ionomer. Electrochimica Acta, vol.47, pp.2795-2800, 2002	Staiti P, Minutoli M, Lufrano F	91
2013 4-2013	Adsorbent coatings for heat pumping applications: Verification of hydrothermal and mechanical stabilities. Applied Thermal Engineering, 50 (2), pp.1658-1663, 2013	Freni A, Frazzica A, Dawoud B, Chmielewski S, Calabrese L, Bonaccorsi L	91
2014 37-2014	Performance analysis of short-side-chain Aquivion® perfluorosulfonic acid polymer for proton exchange membrane water electrolysis. Journal of Membrane Science, 466, pp.1-7,	Siracusano S, Baglio V, Stassi A, Merlo L, Moukheiber E, Aricò AS	91
2016 6-2016	An innovative adsorptive chiller prototype based on 3 hybrid coated/granular adsorbers. Applied Energy, 179, pp.929-938, 2016	Sapienza A, Gulli G, Calabrese L, Palomba V, Frazzica A, Brancato V, La Rosa Dv, Vasta S, Freni A, Bonaccorsi L, Cacciola G	91
2017 18-2017	DME production by CO ₂ hydrogenation: Key factors affecting the behaviour of CuZnZr/ferrierite catalysts. Catalysis Today, 281, pp.337-344, 2017	Bonura G, Cannilla C, Frusteri L, Mezzapica A, Frusteri F	91
61-2017	Adsorbent working pairs for solar thermal energy storage in buildings. Renewable Energy, 110, pp.87-94, 2017	Frazzica A, Freni A	91
1994 113	On the nature of the catalytic activity of silica-based oxide catalysts in the partial oxidation of methane to formaldehyde with O ₂ . Journal of Catalysis, 148, pp.514-523, 1994	Parmaliana A, Arena F, Miceli D, Sokolovskii VD, Giordano N	90
1999 250	Alkali promotion of Ni/MgO catalysts. Applied Catalysis A: General, 187, 127-140, 1999	Arena F, Frusteri F, Parmaliana	90

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2000 275	Selective water sorbents for multiple applications. 11. CaCl ₂ confined to expanded vermiculite. Reaction Kinetics and Catalysis Letters, 71 (2), 377-384, 2000	Aristov YI, Restuccia G, Tokarev MM, Bürger HD, Freni A	90
2002 9-2002	Thermal conductivity of selective water sorbents under the working conditions of a sorption chiller. Applied Thermal Engineering, 22 (14), 1631-1642, 2002	Freni A, Tokarev MM, Restuccia G, Okunev AG, Aristov YI	90
2008 5-2008	Propane reforming on Ni-Ru/GDC catalyst: H ₂ production for IT-SOFCs under SR and ATR conditions. Applied Catalysis A: General, 334, 1-9, 2008	Modafferi V, Panzera G, Baglio V, Frusteri F, Antonucci PL	90
2013 40-2013	Activated carbon nanofibers (ACNF) as cathode for single chamber microbial fuel cells (SCMFCs). Journal of Power Sources, 243, pp.499-507, 2013	Santoro C, Stadlhofer A, Hacker V, Squadrito G, Schröder U, Li B	90
1985 p12-1985	Structural characterization of Fe/Ti oxide photocatalysts by X-ray, ESR and Mössbauer methods. Journal of Solid State Chemistry, 56 (2), 182-190, 1985	Cordischi D, Burriesci N, D'Alba F, Petrera M, Polizzotti G, Schiavello M	89
2013 3-2013	Technologies for energetic exploitation of biodiesel chain derived glycerol: Oxy-fuels production by catalytic conversion. Applied Energy, 102, pp.63-71, 2013	Beatrice C, Di Blasio G, Lazzaro M, Cannilla C, Bonura G, Frusteri F, Asdrubali F, Baldinelli G, Presciutti A, Fantozzi F, Bidini G, Bartocci P	89
50-2013	Zeolites direct synthesis on heat exchangers for adsorption heat pumps. Applied Thermal Engineering, 50 (2), pp.1590-1595, 2013	Bonaccorsi L, Calabrese L, Freni A, Proverbio E, Restuccia G	89
2021 51-2021	Metal-oxide based nanomaterials: Synthesis, characterization and their applications in electrical and electrochemical sensors. Sensors, 21 (7), art. no. 2494, 2021	Fazio E, Spadaro S, Corsaro C, Neri GI, Leonardi SG, Neri F, Lavanya N, Sekar C, Donato N, Neri Gv	89
1994 117	Methanol oxidation on carbon-supported Pt-Sn electrodes in silicotungstic acid. Electrochimica Acta, 39 (5), 691-700, 1994	Aricò AS, Kim H, Shukla AK, Ravikumar MK, Antonucci V, Giordano N	88
2002 13-2002	Water sorption on composites "LiBr in a porous carbon". Fuel Processing Technology, 79 (3), 225-231, 2002	Gordeeva LG, Restuccia G, Freni A, Aristov YI	88
2004 6-2004	Influence of Nafion content in electrodes on performance of carbon supercapacitors. Journal of the Electrochemical Society, 151 (1), A64-A68, 2004	Lufrano F, Staiti P, Minutoli M	88
2006 10-2006	Electrocatalytic behaviour for oxygen reduction reaction of small nanostructured crystalline bimetallic Pt-M supported catalysts. Journal of Applied Electrochemistry, 36, pp.1143-1149, 2006	Stassi A, D'Urso C, Baglio V, Di Blasi A, Antonucci V, Aricò AS, Castro Luna AM, Bonesi A, Triaca WE	88
2009 11-2009	Solid polymer electrolyte water electrolyser based on Nafion-TiO ₂ composite membrane for high temperature operation. Fuel Cells, 9 (3), 247-252, 2009	Baglio V, Ornelas R, Matteucci F, Martina F, Ciccarella G, Zama I, Arriaga LG, Antonucci V, Aricò AS	88
2016 31-2016	Hydrogen production by glycerol steam reforming: How Mg doping affects the catalytic behaviour of Ni/Al ₂ O ₃ catalysts. International Journal of Hydrogen Energy, 41 (1), pp.157-166, 2016	Dieuzeide ML, Laborde M, Amadeo N, Cannilla C, Bonura G, Frusteri F	88
2002 2-2002	Effect of Fe-addition on the catalytic activity of silicas in the partial oxidation of methane to formaldehyde. Applied Catalysis A: General, vol.226, pp.163-174, 2002	Parmaliana A, Arena F, Frusteri F, Martinez-Arias A, Lopez Granados M, Fierro JLG	86
2010 7-2010	Modelling of an adsorption system driven by engine waste heat for truck cabin A/C. Performance estimation for a standard driving cycle. Applied Thermal Engineering, 30 (13), 1511-1522, 2010	Verde M, Cortés L, Corberán JM, Sapienza A, Vasta S,	86

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2014 5-2014	Improved Pd electro-catalysis for oxygen reduction reaction in direct methanol fuel cell by reduced graphene oxide. Applied Catalysis B: Environmental, 144, pp.554-560, 2014	Carrera-Cerritos R, Baglio V, Aricò AS, Ledesma-García J, Sgroi MF, Pullini D, Pruna AJ, Mataix DB, Fuentes-Ramírez R, Arriaga LG	86
2015 7-2015	Electrochemical investigation of thermally treated graphene oxides as electrode materials for vanadium redox flow battery. Applied Energy, 147, pp.74-81, 2015	Di Blasi O, Briguglio N, Busacca C, Ferraro M, Antonucci V, Di Blasi A	86
2012 22-2012	Experimental testing of a lab-scale adsorption chiller using a novel selective water sorbent "silica modified by calcium nitrate". International Journal of Refrigeration, 35 (3), 518-524, 2012	Freni A, Sapienza A, Glaznev IS, Aristov YI, Restuccia G	85
2014 26-2014	Biogas as renewable raw material for syngas production by tri-reforming process over NiCeO ₂ catalysts: Optimal operative condition and effect of nickel content. Fuel Processing Technology, 127, pp.47-58, 2014	Vita A, Pino L, Cipiti F, Laganà M, Recupero V	85
39-2014	Towards fuel cell membranes with improved lifetime: Aquivion® Perfluorosulfonic Acid membranes containing immobilized radical scavengers. Journal of Power Sources, 272, pp.753-758, 2014	D'Urso C, Oldani C, Baglio V, Merlo L, Aricò AS	85
9-2014	Dynamic study of adsorbers by a new gravimetric version of the Large Temperature Jump method. Applied Energy, 113, pp.1244-1251, 2014	Sapienza A, Santamaria S, Frazzica A, Freni A, Aristov YI	85
2016 2-2016	Hydrogen-rich gas production by steam reforming of n-dodecane. Part I: Catalytic activity of Pt/CeO ₂ catalysts in optimized bed configuration. Applied Catalysis B: Environmental, 199, pp.350-360, 2016	Vita A, Italiano C, Fabiano C, Pino L, Laganà M, Recupero V	84
2018 17-2018	Supercapacitors based on AC/MnO ₂ deposited onto dip-coated carbon nanofiber cotton fabric electrodes. Energy Storage Materials, 12, pp.204-215, 2018	Paleo AJ, Staiti P, Brigandi A, Ferreira FN, Rocha AM, Lufrano F	84
2014 52-2014	Performance of a Solid Oxide Fuel Cell short-stack with biogas feeding. Applied Energy, 125, pp.254-263, 2014	Papurello D, Borchellini R, Bareschino P, Chiodo V, Freni S, Lanzini A, Pepe F, Ortigoza-Villalba GA, Santarelli M	83
1996 155	Chemical and morphological characterization of a direct methanol fuel cell based on a quaternary Pt-Ru-Sn-W/C anode. Journal of Applied Electrochemistry, Vol. 26, pp.959-967, 1996	Aricò AS, Creti P, Giordano N, Antonucci V, Antonucci PL, Chuvilin AL	82
2016 35-2016	Performance, methanol tolerance and stability of Fe-aminobenzimidazole derived catalyst for direct methanol fuel cells. Journal of Power Sources, 319, pp.235-246, 2016	Sebastián D, Serov A, Artyushkova K, Atanassov P, Aricò AS, Baglio V	82
2012 6-2012	Catalytic etherification of glycerol to produce biofuels over novel spherical silica supported Hyflon® catalysts. Bioresource Technology, 118, pp.350-358, 2012	Frusteri F, Frusteri L, Cannilla C, Bonura G	81
2015 46-2015	Fe-N supported on graphitic carbon nano-networks grown from cobalt as oxygen reduction catalysts for low-temperature fuel cells. Applied Catalysis B: Environmental, 166-167, pp.75-83, 2015	Negro E, Monteverde Videla AHA, Baglio V, Aricò AS, Specchia S, Koper GJM	81
1996 149	Effect of calcination on the structure of Ni/MgO catalyst: An X-ray diffraction study. Journal of the Chemical Society, Faraday Transactions, 92 (3), 469-471, 1996	Arena F, Frusteri F, Parmaliana A, Plyasova L, Shmakov AN	80
1998 228	Hydrogenation of acetylene in ethylene rich feedstocks: comparison between palladium catalysts supported on pumice and alumina. Applied Catalysis A: General, 172 (2), 207-216, 1998	Duca D, Arena F, Parmaliana A, Deganello G	80
2005 2-2005	Zeolite-based composite membranes for high temperature direct methanol fuel cells. Journal of Applied Electrochemistry, 35 (2), 207-212, 2005	Baglio V, Aricò AS, Di Blasi A, Antonucci PL, Nanetti F, Tricoli V, Antonucci V	80

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2006 1-2006	An NMR and SAXS investigation of DMFC composite recast Nafion membranes containing ceramic fillers. Journal of Membrane Science, vol.270, pp.221-227, 2006	Aricò AS, Baglio V, Antonucci V, Nicotera I, Oliviero Rossi C, Coppola L, Antonucci PL	80
2018 28-2018	Acidity control of zeolite functionality on activity and stability of hybrid catalysts during DME production via CO ₂ hydrogenation. Journal of CO ₂ Utilization, 24, pp.398-406, 2018	Bonura G, Migliori M, Frusteri L, Cannilla C, Catizzone E, Giordano G, Frusteri F	80
2006 4-2006	A dynamic model of heat and mass transfer in a double-bed adsorption machine with internal heat recovery. International Journal of Refrigeration, 29 (4), 589-600, 2006	Maggio G, Freni A, Restuccia G	79
2009 19-2009	Investigation of low cost carbonaceous materials for application as counter electrode in dye-sensitized solar cells. Journal of Applied Electrochemistry, 39, 2173-2179, 2009	Denaro T, Baglio V, Girolamo M, Antonucci V, Aricò AS, Matteucci F, Ornelas R	79
2012 19-2012	Nanosized Pt/IrO ₂ electrocatalyst prepared by modified polyol method for application as dual function oxygen electrode in unitized regenerative fuel cells. International Journal of Hydrogen Energy, 37 (7), 5508-5517, 2012	Cruz JC, Baglio V, Siracusano S, Ornelas R, Arriaga LG, Antonucci V, Aricò AS	79
2018 19-2018	Biobased chemicals from the catalytic depolymerization of Kraft lignin using supported noble metal-based catalysts. Fuel Processing Technology, 179, pp.143-153, 2018	Hita I, Deuss PJ, Bonura G, Frusteri F, Heeres HJ	79
2005 10-2005	Stabilisation of composite LSCFO-CGO based anodes for methane oxidation in solid fuel cells. Journal of Power Sources, 145, pp.68-73, 2005	Sin A, Kopnin E, Dubitsky Y, Zaopo A, Aricò AS, Gullo LR, La Rosa Dn, Antonucci V	78
2006 17-2006	Development and characterization of sulfonated polysulfone membranes for direct methanol fuel cells. Desalination, 199 (1-3), 283-285, 2006	Lufrano F, Baglio V, Staiti P, Aricò AS, Antonucci V	78
2013 37-2013	Electrochemical characterization of a PEM water electrolyzer based on a sulfonated polysulfone membrane. Journal of Membrane Science, 448, pp.209-214, 2013	Siracusano S, Baglio V, Lufrano F, Staiti P, Aricò AS	78
2017 29-2017	PtCu catalyst for the electro-oxidation of ethanol in an alkaline direct alcohol fuel cell. International Journal of Hydrogen Energy, 42 (46), pp.27919-27928, 2017	Maya-Cornejo J, Carrera-Cerritos R, Sebastián D, Ledesma-García J, Arriaga LG, Aricò AS, Baglio V	78
2006 7-2006	Structural and electrochemical investigation on re-cast Nafion membranes for polymer electrolyte fuel cells (PEFCs) application. Journal of Membrane Science, 278, pp.105-113, 2006	Saccà A, Carbone A, Pedicini R, Portale G, D'Ilario L, Longo A, Martorana A, Passalacqua E	77
2014 45-2014	A stand-alone solar adsorption refrigerator for humanitarian aid. Solar Energy, 100, pp.172-178, 2014	Santori G, Santamaria S, Sapienza A, Brandani S, Freni A	77
2015 2-2015	Nanostructured MnO _x catalysts in the liquid phase selective oxidation of benzyl alcohol with oxygen. Part I: Effects of Ce and Fe addition on structure and reactivity. Applied Catalysis B: Environmental, 162, pp.260-267, 2015	Arena F, Gumina B, Lombardo AF, Espro C, Patti AF, Spadaro L, Spiccia L	77
37-2015	Selectivity of direct methanol fuel cell membranes. Membranes, 5 (4), pp.793-809, 2015	Aricò AS, Sebastián D, Schuster M, Bauer B, D'Urso C, Lufrano F, Baglio V	77
2016 15-2016	Catalytic features of CuZnZr-zeolite hybrid systems for the direct CO ₂ -to-DME hydrogenation reaction. Catalysis Today, 277, pp.48-54, 2016	Bonura G, Frusteri F, Cannilla C, Drago Ferrante G, Aloise A, Catizzone E, Migliori M, Giordano G	77
2020 40-2020	Assessment of the FAA3-50 polymer electrolyte in combination with a NiMn ₂ O ₄ anode catalyst for anion exchange membrane water electrolysis. International Journal of Hydrogen Energy, 45 (16), pp.9285-9292, 2020	Carbone A, Zignani SC, Gatto I, Trocino S, Aricò AS	77

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2010 14-2010	Highly effective MnCeO _x catalysts for biodiesel production by transesterification of vegetable oils with methanol. Applied Catalysis A: General, 382 (2), 158-166, 2010	Cannilla C, Bonura G, Rombi E, Arena F, Frusteri F	76
2014 40-2014	Carbon nanofiber-based counter electrodes for low cost dye-sensitized solar cells. Journal of Power Sources, 250, pp.242-249, 2014	Sebastián D, Baglio V, Girolamo M, Moliner R, Lázaro MJ, Aricò AS	76
2000 A16	Effect of Me (Pt+Ru) content in Me/C catalysts on PtRu alloy formation: An XRD analysis. Journal of Materials Science Letters, 19 (23), 2099-2103, 2000	Antolini E, Cardellini F, Giorgi L, Passalacqua E	75
2004 4-2004	Surface properties of inorganic fillers for application in composite membranes-direct methanol fuel cells. Journal of Power Sources, 128 (2), 113-118, 2004	Aricò AS, Baglio V, Di Blasi A, Modica E, Antonucci PL, Antonucci V	75
2013 16-2013	Comparative study on steam and oxidative steam reforming of methane with noble metal catalysts. Industrial & Engineering Chemistry Research, 52 (44), pp.15428-15436, 2013	Amjad U-E-S, Vita A, Galletti C, Pino L, Specchia S	75
2019 61-2019	Recent advancements in sorption technology for solar thermal energy storage applications. Solar Energy, 192, pp.69-105, 2019	Palomba V, Frazzica A	75
2013 13-2013	Optimization and testing on an adsorption dishwasher. Energy, 50 (1), pp.170-176, 2013	Santori G, Frazzica A, Freni A, Galieni M, Bonaccorsi L, Polonara F, Restuccia G	74
1986 p7-1986	Liquid phase hydrogenations over platinum-tin catalysts. Journal of Molecular Catalysis, 35, 365-373, 1986	Galvagno S, Poltarzewski Z, Donato A, Neri Gv, Pietropaolo	72
1988 16	Electrochemical corrosion behavior of carbon black in phosphoric acid. Carbon, 26 (2), 197-203, 1988	Antonucci PL, Romeo F, Minutoli M, Alderucci V, Giordano N	72
2000 267	Dimethyl ether steam reforming to feed molten carbonate fuel cells (MCFCs). Energy & Fuels, 14, pp.1139-1142, 2000	Sobyanin VA, Cavallaro S, Freni S	72
2009 10-2009	Mitigation of carbon deposits formation in intermediate temperature solid oxide fuel cells fed with dry methane by anode doping with barium. Journal of Power Sources, 193, 160-164, 2009	La Rosa Dn, Sin A, Lo Faro M, Monforte G, Antonucci V, Aricò AS	72
2017 5-2017	Ce _{0.70} La _{0.20} Ni _{0.10} O _{2-δ} catalyst for methane dry reforming: Influence of reduction temperature on the catalytic activity and stability. Applied Catalysis B: Environmental, 218, pp.779-792, 2017	Pino L, Italiano C, Vita A, Laganà M, Recupero V	72
2018 44-2018	Adsorption heat storage: State-of-the-art and future perspectives. Nanomaterials, 8 (7), art. no. 522, 2018	Vasta S, Brancato V, La Rosa Dv, Palomba V, Restuccia G, Sapienza A, Frazzica A	72
8-2018	Solid oxide fuel cells fed with dry ethanol: The effect of a perovskite protective anodic layer containing dispersed Ni-alloy @ FeOx core-shell nanoparticles. Applied Catalysis B: Environmental, 220, pp.98-110, 2018	Lo Faro M, Reis RM, Saglietti GGA, Oliveira VL, Zignani SC, Trocino S, Maisano S	72
2012 9-2012	Catalytic dry-reforming on Ni-zeolite supported catalyst. Catalysis Today, 179 (1), 52-60, 2012	Frontera P, Macario A, Aloise A, Crea F, Antonucci PL, Nagy JB, Frusteri F, Giordano G	71
2013 55-2013	Hybrid ordered mesoporous carbons doped with tungsten trioxide as supports for Pt electrocatalysts for methanol oxidation reaction. Electrochimica Acta, 94, pp.80-91, 2013	Zeng J, Francia C, Gerbaldi C, Baglio V, Specchia S, Aricò AS, Spinelli P	71
2014 12-2014	Experimental and theoretical analysis of the kinetic performance of an adsorbent coating composition for use in adsorption chillers and heat pumps. Applied Thermal Engineering, 73 (1), pp.1022-1031, 2014	Frazzica A, Földner G, Sapienza A, Freni A, Schnabel L	71

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2015 19-2015	Biogas reforming process investigation for SOFC application. Energy Conversion and Management, 98, pp.252-258, 2015	Chiodo V, Galvagno A, Lanzini A, Papurello D, Urbani F, Santarelli M, Freni S	71
2016 7-2016	Design, realization and testing of an adsorption refrigerator based on activated carbon/ethanol working pair. Applied Energy, 174, pp.15-24, 2016	Frazzica A, Palomba V, Dawoud B, Gulli G, Brancato V, Sapienza A, Vasta S, Freni A, Costa F, Restuccia G	71
1995 138	XPS study of surface oxidation of carbon-supported Pt catalysts. Materials Chemistry and Physics, 41 (1), 9-14, 1995	Alderucci V, Pino L, Antonucci PL, Roh W, Cho J, Kim H, Cocke DL, Antonucci V	70
1998 220	Hydrogen generator, via catalytic partial oxidation of methane for fuel cells. Journal of Power Sources, 71 (1-2), 208-214, 1998	Recupero V, Pino L, Di Leonardo R, Laganà M, Maggio G	70
2008 6-2008	Composites "lithium halides in silica gel pores": Methanol sorption equilibrium. Microporous and Mesoporous Materials, 112 (1-3), 254-261, 2008	Gordeeva LG, Freni A, Krieger TA, Restuccia G, Aristov YI	70
2009 36-2009	Intermediate temperature solid oxide fuel cell electrolytes. Journal of the Indian Institute of Science, 89 (4), 363-380, 2009	Lo Faro M, La Rosa Dn, Antonucci V, Aricò AS	70
2012 1-2012	Ceria-gadolinia supported NiCu catalyst: A suitable system for dry reforming of biogas to feed a solid oxide fuel cell (SOFC). Applied Catalysis B: Environmental, 121-122, pp.135-147, 2012	Bonura G, Cannilla C, Frusteri F	70
2013 31-2013	Power generation of microbial fuel cells (MFCs) with low cathodic platinum loading. International Journal of Hydrogen Energy, 38 (1), pp.692-700, 2013	Santoro C, Li B, Cristiani P, Squadrito G	70
2016 12-2016	Prediction of SCP and COP for adsorption heat pumps and chillers by combining the large-temperature-jump method and dynamic modeling. Applied Thermal Engineering, 98, pp.900-909, 2016	Graf S, Lanzerath F, Sapienza A, Frazzica A, Freni A, Bardow A	70
2018 9-2018	Experimental and numerical analysis of a SOFC-CHP system with adsorption and hybrid chillers for telecommunication applications. Applied Energy, 216, pp.620-633, 2018	Palomba V, Ferraro M, Frazzica A, Vasta S, Sergi F, Antonucci V	70
2020 5-2020	A review of thermochemical energy storage systems for power grid support. Applied Sciences, 10 (9), art. no. 3142, 2020	Airò Farulla G, Cellura M, Guarino F, Ferraro M	70
1982 p8-1982	Hydrogen spillover effects in the hydrogenation of benzene over Pt/ γ -Al ₂ O ₃ catalysts. Journal of Catalysis, 75 (1), 140-150, 1982	Antonucci PL, Van Truong N, Giordano N, Maggiore R	69
1987 2	Alkylation of toluene with methanol on zeolites. The role of electronegativity on the chain or ring alkylation. Zeolites, 7, 131-134, 1987	Giordano N, Pino L, Cavallaro S, Vitarelli P, Rao BS	69
1993 105	A basic approach to evaluate methane partial oxidation catalysts. Journal of Catalysis, Vol. 143, pp.262-274, 1993	Parmaliana A, Frusteri F, Mezzapica A, Miceli D, Scurrrell MS, Giordano N	69
2008 15-2008	Optimization of properties and operating parameters of a passive DMFC mini-stack at ambient temperature. Journal of Power Sources, 180, 797-802, 2008	Baglio V, Stassi A, Matera FV, Di Blasi A, Antonucci V, Aricò AS	69
31-2008	Hydrogen from oxygenated solvents by steam reforming on Ni/Al ₂ O ₃ catalyst. International Journal of Hydrogen Energy, 33, 6627-6634, 2008	Palmeri N, Chiodo V, Freni S, Frusteri F, Bart JCI, Cavallaro S	69
2010 11-2010	Investigation of polymer electrolyte hybrid supercapacitor based on manganese oxide-carbon electrodes. Electrochimica Acta, 55 (25), 7436-7442, 2010	Staiti P, Lufrano F	69
2011 11-2011	Influence of the bolt torque on PEFC performance with different gasket materials. International Journal of Hydrogen Energy, 36 (20), 13043-13050, 2011	Gatto I, Urbani F, Giacoppo G, Barbera O, Passalacqua E	69

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2015 36-2015	Influence of Ce-precursor and fuel on structure and catalytic activity of combustion synthesized Ni/CeO ₂ catalysts for biogas oxidative steam reforming. Materials Chemistry and Physics, 163, pp.337-347, 2015	Vita A, Italiano C, Fabiano C, Laganà M, Pino L	69
2017 50-2017	A combination of CoO and Co nanoparticles supported on electrospun carbon nanofibers as highly stable air electrodes. Journal of Power Sources, 364, pp.101-109, 2017	Alegre C, Busacca C, Di Blasi O, Antonucci V, Aricò AS, Di Blasi A, Baglio V	69
2005 18-2005	Investigation of the electrochemical behaviour in DMFCs of chabazite and clinoptilolite-based composite membranes. Electrochimica Acta, Vol.50, pp.5181-5188, 2005	Baglio V, Di Blasi A, Aricò AS, Antonucci V, Antonucci PL, Nanetti F, Tricoli V	68
2009 17-2009	Investigation of passive DMFC mini-stacks at ambient temperature. Electrochimica Acta, 54, 2004-2009, 2009	Baglio V, Stassi A, Matera FV, Antonucci V, Aricò AS	68
2012 28-2012	Mechanical characterisation of a glass/polyester sandwich structure for marine applications. Materials and Design, 42,	Di Bella G, Calabrese L, Borsellino C	68
4-2012	Simulation of water sorption dynamics in adsorption chillers: One, two and four layers of loose silica grains. Applied Thermal Engineering, 44, pp.69-77, 2012	Freni A, Maggio G, Cipiti F, Aristov YI	68
2014 22-2014	The size of sorbents in low pressure sorption or thermochemical energy storage processes. Energy, 77, pp.983-998, 2014	N'Tsoukpoe KE, Restuccia G, Schmidt T, Py X	68
2016 5-2016	Experimental testing of a hybrid sensible-latent heat storage system for domestic hot water applications. Applied Energy, 183, pp.1157-1167, 2016	Frazzica A, Manzan M, Sapienza A, Freni A, Toniato G, Restuccia G	68
1990 50	The role of Ni ²⁺ diffusion on the reducibility of NiO/MgO system: a combined TPR-XPS study. Catalysis Letters, 6, 139-150, 1990	Arena F, Licciardello A, Parmaliana A	67
1998 210	Alkali resistance of tape-cast SiC porous ceramic membranes. Materials Letters, 34 (3-6), 257-262, 1998	Passalacqua E, Barone F, Freni S	66
1999 237	Performances of adsorption systems for ambient heating and air conditioning. International Journal of Refrigeration, 22 (1), 18-26, 1999	Restuccia G, Cacciola G	66
2006 25-2006	Tape casting fabrication and co-sintering of solid oxide "half cells" with a cathode-electrolyte porous interface. Solid State Ionics, 177, 2093-2097, 2006	Montinaro D, Sglavo VM, Bertoldi M, Zandonella T, Aricò AS, Lo Faro M, Antonucci V	66
2007 18-2007	Performance and life-time behaviour of NiCu-CGO anodes for the direct electro-oxidation of methane in IT-SOFCs. Journal of Power Sources, 164 (1), 300-305, 2007	Sin A, Kopnin E, Dubitsky Y, Zaopo A, Aricò AS, La Rosa Dn, Gullo LR, Antonucci V	66
2009 6-2009	Simulation of a solid sorption ice-maker based on the novel composite sorbent "lithium chloride in silica gel pores". Applied Thermal Engineering, 29 (8-9), 1714-1720, 2009	Maggio G, Gordeeva LG, Freni A, Aristov YI, Santori G, Polonara F, Restuccia G	66
2010 17-2010	Surface properties of Pt and PtCo electrocatalysts and their influence on the performance and degradation of high-temperature polymer electrolyte fuel cells. Journal of Physical Chemistry C: Nanomaterials and interfaces, 114 (37), 15823-	Aricò AS, Stassi A, Gatto I, Monforte G, Passalacqua E, Antonucci V	66
2016 16-2016	Preparation of structured catalysts with Ni and Ni-Rh/CeO ₂ catalytic layers for syngas production by biogas reforming processes. Catalysis Today, 273, pp.3-11, 2016	Italiano C, Balzarotti R, Vita A, Latorrata S, Fabiano C, Pino L, Cristiani C	66
2018 54-2018	Methanol synthesis from biogas: A thermodynamic analysis. Renewable Energy, 118, pp.673-684, 2018	Vita A, Italiano C, Previtali D, Fabiano C, Palella A, Freni F, Bozzano G, Pino L, Manenti F	66
2020 34-2020	Grid interaction and environmental impact of a net zero energy building. Energy Conversion and Management, 203, art. no. 112228, 2020	Tumminia G, Guarino F, Longo S, Aloisio D, Cellura S, Sergi F, Brunaccini G, Antonucci V, Ferraro M	66

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1993 101	Novel high activity catalysts for partial oxidation of methane to formaldehyde. Journal of the Chemical Society, Chemical Communications, Issue 9, pp.751-753, 1993	Parmaliana A, Frusteri F, Mezzapica A, Scurrall MS, Giordano N	65
2009 35-2009	Exergy recovery during LNG regasification: Electric energy production - Part two. Applied Thermal Engineering, 29 (2-3), 388-399, 2009	Dispenza C, Dispenza G, La Rocca V, Panno G	65
2012 10-2012	Performance and selectivity of Pt _x Sn/C electro-catalysts for ethanol oxidation prepared by reduction with different formic acid concentrations. Electrochimica Acta, 70, pp.255-265, 2012	Zignani SC, Baglio V, Linares JJ, Monforte G, Gonzalez ER, Aricò AS	65
2017 67-2017	Development of a solar powered hydrogen fueling station in smart cities applications. International Journal of Hydrogen Energy, 42 (46), pp.27884-27893, 2017	Dispenza G, Sergi F, Napoli G, Randazzo N, Di Novo S, Micari S, Antonucci V, Andaloro L	65
2018 51-2018	Batch pyrolysis of pellet made of biomass and crude glycerol: Mass and energy balances. Renewable Energy, 124, pp.172-179,	Bartocci P, Bidini G, Asdrubali F, Beatrice C, Frusteri F, Fantozzi F	65
2006 16-2006	A basic assessment of the reactivity of Ni catalysts in the decomposition of methane for the production of "CO _x -free" hydrogen for fuel cells application. Catalysis Today, 116 (3), 298-303, 2006	Bonura G, Di Blasi O, Spadaro L, Arena F, Frusteri F	64
2007 28-2007	Local environment of Barium, Cerium and Yttrium in BaCe _{1-x} Y _x O _{3-δ} ceramic protonic conductors. Solid State Ionics, 178 (7-10), 587-591, 2007	Giannici F, Longo A, Deganello F, Balerna A, Aricò AS, Martorana A	64
1982 p2-1982	Hydrothermal synthesis of zeolites from pumice in alkaline and saline environment. Zeolites, 2 (4), 295-298, 1982	Ottanà R, Saija LM, Burriesci N, Giordano N	63
1992 75	Influence of electrodic properties on water management in a solid polymer electrolyte fuel cell. Journal of Applied Electrochemistry, Vol. 22, pp.663-667, 1992	Staiti P, Poltarzewski Z, Alderucci V, Maggio G, Giordano N, Fasulo A	63
2006 11-2006	Investigation of Pt-Fe catalysts for oxygen reduction in low temperature direct methanol fuel cells. Journal of Power Sources, 159, pp.900-904, 2006	Baglio V, Aricò AS, Stassi A, D'Urso C, Di Blasi A, Castro Luna AM, Antonucci V	63
14-2006	Sulfonated PEEK-WC membranes for proton-exchange membrane fuel cell: Effect of the increasing level of sulfonation on electrochemical performances. Journal of Membrane Science, 281 (1-2), 377-385, 2006	Basile AB, Paturzo L, Iulianelli A, Gatto I, Passalacqua E	63
2007 30-2007	Improved MnCeO _x systems for the catalytic wet oxidation (CWO) of phenol in wastewater streams. Industrial & Engineering Chemistry Research, 46 (21), 6724-6731, 2007	Arena F, Negro J, Parmaliana A, Spadaro L, Trunfio G	63
2008 22-2008	Development of Pt and Pt-Fe catalysts supported on multiwalled carbon nanotubes for oxygen reduction in direct methanol fuel cells. Journal of the Electrochemical Society, 155 (8), B829-B833,	Baglio V, Di Blasi A, D'Urso C, Antonucci V, Aricò AS, Ornelas R, Morales-Acosta D, Ledesma-García J, Godínez LA, Arriaga LG, Alvarez-Contreras L	63
2017 62-2017	"Water - Silica Siogel" working pair for adsorption chillers: Adsorption equilibrium and dynamics. Renewable Energy, 110, pp.40-46, 2017	Sapienza A, Velte A, Gírník IS, Frazzica A, Földner G, Schnabel L, Aristov YI	63
2019 36-2019	Renewable hydrogen production via steam reforming of simulated bio-oil over Ni-based catalysts. International Journal of Hydrogen Energy, 44 (29), pp.14671-14682, 2019	Italiano C, Bizkarra K, Barrio VL, Cambra JF, Pino L, Vita A	63
2020 60-2020	Rational design of a robust aluminum metal-organic framework for multi-purpose water-sorption-driven heat allocations. Nature Communications, 11 (1), art. no. 5112, 2020	Cho KH, Borges DD, Lee U-H, Lee JS, Yoon JW, Cho SJ, Park J, Lombardo W, Moon D, Sapienza A, Maurin G, Chang J-S	63

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2008 2-2008	Composite S-PEEK membranes for medium temperature polymer electrolyte fuel cells. Journal of Power Sources, 178, pp.661-666, 2008	Carbone A, Pedicini R, Saccà A, Gatto I, Passalacqua E	62
9-2008	Catalytic performance of $Ce_{1-x}Ni_xO_2$ catalysts for propane oxidative steam reforming. Catalysis Letters, 122, 121-130, 2008	Pino L, Vita A, Cipiti F, Laganà M, Recupero V	62
2011 24-2011	Measurement of the clamping pressure distribution in polymer electrolyte fuel cells using piezoresistive sensor arrays and digital image correlation techniques. Journal of Power Sources, 196 (20), 8484-8493, 2011	Montanini R, Squadrito G, Giacoppo G	62
2018 16-2018	Adsorption-compression cascade cycles: An experimental study. Energy Conversion and Management, 156, pp.365-375, 2018	Vasta S, Palomba V, La Rosa Dv, Mittelbach W	62
2021 35-2021	Dimethyl ether as circular hydrogen carrier: Catalytic aspects of hydrogenation/dehydrogenation steps. Journal of Energy Chemistry, 58, pp.55-77, 2021	Catizzzone E, Freda C, Braccio G, Frusteri F, Bonura G	62
1987 A19	Nitrobenzene hydrogenation on Pt-Sn catalysts. Journal of Molecular Catalysis, 42 (3), 379-387, 1987	Galvagno S, Donato A, Neri Gv, Pietropaolo R, Poltarzewski Z	61
2005 3-2005	Development of a LPG fuel processor for PEFC systems: Laboratory scale evaluation of autothermal reforming and preferential oxidation subunits. International Journal of Hydrogen Energy, 30 (9), 963-971, 2005	Recupero V, Pino L, Vita A, Cipiti F, Cordaro Mn, Laganà M	61
2017 12-2017	Experimental investigation of a latent heat storage for solar cooling applications. Applied Energy, 199, pp.347-358, 2017	Palomba V, Brancato V, Frazzica A	61
33-2017	Tri-generation for industrial applications: Development of a simulation model for a gasification-SOFC based system. International Journal of Hydrogen Energy, 42 (46), pp.27866-27883, 2017	Palomba V, Prestipino M, Galvagno A	61
1993 99	AC-impedance spectroscopy study of oxygen reduction at Nafion coated gas-diffusion electrodes in sulphuric acid: Teflon loading and methanol cross-over effect. Journal of Applied Electrochemistry, 23, pp.1107-1116, 1993	Aricò AS, Antonucci V, Alderucci V, Modica E, Giordano N	60
2006 19-2006	Proton exchange membranes based on the short-side-chain perfluorinated ionomer for high temperature direct methanol fuel cells. Desalination, 199 (1-3), 271-273, 2006	Aricò AS, Baglio V, Di Blasi A, Antonucci V, Cirillo L, Ghielmi A, Arcella V	60
2008 24-2008	Synthesis, characterization and evaluation of IrO_2 - RuO_2 electrocatalytic powders for oxygen evolution reaction. Journal of New Materials for Electrochemical Systems, 11, 105-108, 2008	Baglio V, Di Blasi A, Denaro T, Antonucci V, Aricò AS, Ornelas R, Matteucci F, Alonso G, Morales L, Orozco G, Arriaga	60
2018 56-2018	$MgSO_4 \cdot 7H_2O$ filled macro cellular foams: An innovative composite sorbent for thermo-chemical energy storage applications for solar buildings. Solar Energy, 173, pp.1278-1286,	Brancato V, Calabrese L, Palomba V, Frazzica A, Fullana-Puig M, Solé A, Cabeza LF	60
1997 187	Fuel cells with $H_3PW_{12}O_{40} \cdot 29H_2O$ as solid electrolyte. International Journal of Hydrogen Energy, 22 (8), 809-814, 1997	Staiti P, Hočevár S, Giordano N	59
2005 13-2005	Ethanol auto-thermal reforming on rhodium catalysts and initial steps simulation on single crystals under UHV conditions. Applied Catalysis A: General, 281 (1-2), 139-147, 2005	Vesselli E, Comelli G, Rosei R, Freni S, Frusteri F, Cavallaro S	59
2008 32-2008	Optimization of the $MnCeO_x$ system for the catalytic wet oxidation of phenol with oxygen (CWAO). Applied Catalysis B: Environmental, 85 (1-2), 40-47, 2008	Arena F, Trunfio G, Negro J, Spadaro L	59
2013 10-2013	On the mechanical behavior of BFRP to aluminum AA6086 mixed joints. Composites Part B: Engineering, 48, pp.79-87, 2013	Fiore V, Alagna F, Di Bella G, Valenza A	59

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2016 22-2016	Cost analysis of direct methanol fuel cell stacks for mass production. <i>Energies</i> , 9 (12), art. no. 1008, 2016	Sgroi MF, Zedde F, Barbera O, Stassi A, Sebastián D, Lufano F, Baglio V, Aricò AS, Bonde JL, Schuster M	59
2017 77-2017	Solution combustion synthesis for the preparation of structured catalysts: A mini-review on process intensification for energy applications and pollution control. <i>International Journal of Self-Propagating High-Temperature Synthesis</i> , 26 (3), pp.166-186,	Specchia S, Ercolino G, Karimi S, Italiano C, Vita A	59
1991 59	Photoactive screen-printed pyrite anodes for electrochemical photovoltaic cells. <i>Solar Cells</i> , Vol. 31, pp.119-141, 1991	Antonucci V, Aricò AS, Antonucci PL, Russo U, Cocke DL, Crea F, Giordano N	58
1999 251	How oxide carriers affect the reactivity of V_2O_5 catalysts in the oxidative dehydrogenation of propane. <i>Catalysis Letters</i> , 60 (1-2), 59-63, 1999	Arena F, Frusteri F, Parmaliana	58
2009 33-2009	Exergy recovery in regasification facilities - Cold utilization: A modular unit. <i>Applied Thermal Engineering</i> , 29 (17-18), 3595-3608, 2009	Dispenza C, Dispenza G, La Rocca V, Panno G	58
2011 3-2011	Glycerol oxidation in solid oxide fuel cells based on a Ni-perovskite electrocatalyst. <i>Biomass and Bioenergy</i> , 35 (3), 1075-1084, 2011	Lo Faro M, Minutoli M, Monforte G, Antonucci V, Aricò AS	58
2014 3-2014	Towards an optimal synthesis route for the preparation of highly mesoporous carbon xerogel-supported Pt catalysts for the oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 147, pp.947-957, 2014	Alegre C, Gálvez ME, Moliner R, Baglio V, Aricò AS, Lázaro MJ	58
2016 47-2016	The oncoming energy vector: Hydrogen produced in Pd-composite membrane reactor via bioethanol reforming over Ni/CeO ₂ catalyst. <i>Catalysis Today</i> , 259, Part 2, pp.368-375, 2016	Iulianelli A, Liguori S, Vita A, Italiano C, Fabiano C, Huang Y, Basile AB	58
2017 65-2017	Identification and characterization of promising phase change materials for solar cooling applications. <i>Solar Energy Materials and Solar Cells</i> , 160, pp.225-232, 2017	Brancato V, Frazzica A, Sapienza A, Freni A	58
2001 306	Proton conductive membranes constituted of silicotungstic acid anchored to silica-polybenzimidazole matrices. <i>Journal of New Materials for Electrochemical Systems</i> , vol.4, pp.181-186, 2001	Staiti P	57
2004 17-2004	Conductivity and capacitance properties of a supercapacitor based on Nafion electrolyte in nonaqueous system. <i>Electrochemical and Solid-State Letters</i> , 7 (11), A447-4450, 2004	Lufano F, Staiti P	57
2013 49-2013	Optimizing the synthesis of carbon nanofiber based electrocatalysts for fuel cells. <i>Applied Catalysis B: Environmental</i> , 132-133, pp.22-27, 2013	Sebastián D, Suelves I, Moliner R, Lázaro MJ, Stassi A, Baglio V, Aricò AS	57
1991 70	Factors controlling the reactivity of the silica surface in methane partial oxidation. <i>Applied Catalysis</i> , 78 (2), L7-L12, 1991	Parmaliana A, Frusteri F, Miceli D, Mezzapica A, Scurrill MS, Giordano N	56
1997 180	Surface structures, reduction pattern and oxygen chemisorption of V_2O_5/SiO_2 catalysts. <i>Journal of the Chemical Society, Faraday Transactions</i> , 93 (21), 3849-3854, 1997	Arena F, Frusteri F, Martra G, Coluccia S, Parmaliana A	56
2004 10-2004	Influence of TiO ₂ nanometric filler on the behaviour of a composite membrane for applications in direct methanol fuel cells. <i>Journal of New Materials for Electrochemical Systems</i> , 7 (4),	Baglio V, Di Blasi A, Aricò AS, Antonucci V, Antonucci PL, Serraino Fiory F, Licoccia S, Traversa E	56
2007 8-2007	On MHD and slip flow over a rotating porous disk with variable properties. <i>International Communications in Heat and Mass Transfer</i> , 34, 492-501, 2007	Frusteri F, Osalusi E	56

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2009 18-2009	Investigation of carbon-supported Pt and PtCo catalysts for oxygen reduction in direct methanol fuel cells. <i>Electrochimica Acta</i> , 54, 4844-4850, 2009	Siracusano S, Stassi A, Baglio V, Aricò AS, Capitanio F, Tavares AC	56
2017 6-2017	Hydrogen-rich gas production by steam reforming of n-dodecane. Part II: Stability, regenerability and sulfur poisoning of low loading Rh-based catalyst. <i>Applied Catalysis B: Environmental</i> , 218, pp.317-326, 2017	Vita A, Italiano C, Pino L, Laganà M, Recupero V	56
2020 48-2020	Optimal allocation of electric vehicle charging stations in a highway network: Part 1. Methodology and test application. <i>Journal of Energy Storage</i> , 27, art. no. 101102, 2020	Napoli G, Polimeni A, Micari S, Andaloro L, Antonucci V	56
1995 141	Regenerative adsorption heat pumps: optimization of the design. <i>Heat Recovery Systems & CHP</i> , 15 (6), 531-544, 1995	Van Benthem GHW, Cacciola G, Restuccia G	55
1997 201	Vapor-condensed matter and melting-solidification equilibria in the calcium chloride-water system dispersed in silica gel pores. <i>Russian Journal of Physical Chemistry A</i> , 71 (2), 197-201 (pp.253-258 nella versione in russo su "Zhurnal Fizicheskoi Khimii"), 1997	Aristov YI, Tokarev MM, Di Marco G, Cacciola G, Restuccia G, Parmon VN	55
2008 36-2008	Effect of operative conditions on a PEFC stack performance. <i>International Journal of Hydrogen Energy</i> , 33 (12), 3137-3141,	Urbani F, Barbera O, Giacoppo G, Squadrito G, Passalacqua E	55
2009 3-2009	Zeolite synthesised on copper foam for adsorption chillers: A mathematical model. <i>Microporous and Mesoporous Materials</i> , 120, 402-409, 2009	Freni A, Bonaccorsi L, Proverbio E, Maggio G, Restuccia G	55
2012 26-2012	The effect of thermal treatment on structure and surface composition of PtCo electro-catalysts for application in PEMFCs operating under automotive conditions. <i>Journal of Power Sources</i> , 208, pp.35-45, 2012	Stassi A, Gatto I, Monforte G, Baglio V, Passalacqua E, Antonucci V, Aricò AS	55
2013 51-2013	Hydrothermal and microwave synthesis of SAPO (CHA) zeolites on aluminium foams for heat pumping applications. <i>Microporous and Mesoporous Materials</i> , 167, pp.30-37, 2013	Bonaccorsi L, Calabrese L, Freni A, Proverbio E	55
52-2013	Synthesis of SAPO-34 on graphite foams for adsorber heat exchangers. <i>Applied Thermal Engineering</i> , 61 (2), pp.848-852, 2013	Bonaccorsi L, Bruzzaniti P, Calabrese L, Freni A, Proverbio E, Restuccia G	55
2014 7-2014	Mixture of glycerol ethers as diesel bio-derivable oxy-fuel: Impact on combustion and emissions of an automotive engine combustion system. <i>Applied Energy</i> , 132, pp.236-247, 2014	Beatrice C, Di Blasio G, Guido C, Cannilla C, Bonura G, Frusteri F	55
2016 19-2016	Effects of aging in salt spray conditions on flax and flax/basalt reinforced composites: Wettability and dynamic mechanical properties. <i>Composites Part B: Engineering</i> , 93, pp.35-42, 2016	Fiore V, Calabrese L, Di Bella G, Scalici T, Galtieri G, Valenza A, Proverbio E	55
3-2016	Sulfurized carbon xerogels as Pt support with enhanced activity for fuel cell applications. <i>Applied Catalysis B: Environmental</i> , 192, pp.260-267, 2016	Alegre C, Sebastián D, Gálvez ME, Moliner R, Lázaro MJ	55
36-2016	Composites Nafion-titania membranes for Polymer Electrolyte Fuel Cell (PEFC) applications at low relative humidity levels: Chemical physical properties and electrochemical performance. <i>Polymer Testing</i> , 56, pp.10-18, 2016	Saccà A, Carbone A, Gatto I, Pedicini R, Freni A, Patti A, Passalacqua E	55
2017 69-2017	A rechargeable, aqueous iron air battery with nanostructured electrodes capable of high energy density operation. <i>Journal of the Electrochemical Society</i> , 164 (6), A1148-A1157, 2017	Figueredo-Rodriguez HA, McKerracher RD, Insausti M, García-Luis A, Ponce de León C, Alegre C, Baglio V, Aricò AS, Walsh FC	55
7-2017	Probing the functionality of nanostructured MnCeO _x catalysts in the carbon monoxide oxidation: Part I. Influence of cerium addition on structure and CO oxidation activity. <i>Applied Catalysis B: Environmental</i> , 210, pp.14-22, 2017	Arena F, Di Chio R, Fazio B, Espro C, Spiccia L, Palella A, Spadaro L	55

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2010 23-2010	Renewable energy for hydrogen production and sustainable urban mobility. International Journal of Hydrogen Energy, 35 (18), 9996-10003, 2010	Briguglio N, Andaloro L, Ferraro M, Di Blasi A, Dispenza G, Matteucci F, Breedveld L, Antonucci V	54
2013 45-2013	Durability on alternate immersion test of self-piercing riveting aluminium joint. Materials and Design, 46, pp.849-856, 2013	Calabrese L, Bonaccorsi L, Proverbio E, Di Bella G, Borsellino C	54
2017 28-2017	Catalytic pyrolysis of Mediterranean sea plant for bio-oil production. International Journal of Hydrogen Energy, 42 (46), pp.28082-28092, 2017	Maisano S, Urbani F, Mondello N, Chiodo V	54
2019 34-2019	Production of hydrogen by methane dry reforming over ruthenium-nickel based catalysts deposited on Al ₂ O ₃ , MgAl ₂ O ₄ , and YSZ. International Journal of Hydrogen Energy, 44 (47), pp.25706-25716, 2019	Andraos S, Abbas-Ghaleb R, Chlala D, Vita A, Italiano C, Laganà M, Pino L, Nakhil M, Specchia S	54
2020 1-2020	Engineering of a low-cost, highly active, and durable tantalate-graphene hybrid electrocatalyst for oxygen reduction. Advanced Energy Materials, 10 (24), art. no. 2000075, 2020	Zhang G, Sebastián D, Zhang X, Wei Q, Lo Vecchio C, Zhang J, Baglio V, Wang W, Sun S, Aricò AS, Tavares AC	54
2000 268	Selective water sorbents for multiple applications, 10. Energy storage ability. Reaction Kinetics and Catalysis Letters, 69 (2), 345-353, 2000	Aristov YI, Restuccia G, Tokarev MM, Cacciola G	53
2008 19-2008	Phosphotungstic acid supported on a nanopowdered ZrO ₂ as a filler in Nafion-based membranes for polymer electrolyte fuel cells. Fuel Cells, n. 3-4, pp.225-235, 2008	Saccà A, Carbone A, Pedicini R, Marrony M, Barrera M, Elomaa M, Passalacqua E	53
2010 8-2010	Influence of the surface-chemistry of modified mesoporous carbon on the electrochemical behaviour of solid-state supercapacitors. Energy & Fuels, 24 (6), 3313-3320, 2010	Lufrano F, Staiti P	53
2014 19-2014	Low-temperature graphitization of amorphous carbon nanospheres. Chinese Journal of Catalysis, 35 (6), pp.869-876,	Barbera K, Frusteri L, Italiano G, Spadaro L, Frusteri F, Perathoner S, Centi G	53
8-2014	Charge-discharge performance of carbon fiber-based electrodes in single cell and short stack for vanadium redox flow battery. Applied Energy, 125, pp.114-122, 2014	Di Blasi A, Briguglio N, Di Blasi O, Antonucci V	53
2015 26-2015	Bio-hydrogen production by oxidative steam reforming of biogas over nanocrystalline Ni/CeO ₂ catalysts. International Journal of Hydrogen Energy, 40 (35), pp.11823-11830, 2015	Italiano C, Vita A, Fabiano C, Laganà M, Pino L	53
2019 40-2019	Experimental characterization of the LiCl/vermiculite composite for sorption heat storage applications. International Journal of Refrigeration, 105, pp.92-100, 2019	Brancato V, Gordeeva LG, Sapienza A, Palomba V, Vasta S, Grekova AD, Frazzica A, Aristov YI	53
2020 80-2020	Sustainable adobe bricks with seagrass fibres. Mechanical and thermal properties characterization. Construction and Building Materials, 239, art. no. 117669, 2020	Olacia E, Pisello AL, Chiodo V, Maisano S, Frazzica A, Cabeza LF	53
1990 46	Fast simple and accurate measurement of zeolite thermal conductivity. Zeolites, 10, 565-570, 1990	Liu ZY, Cacciola G, Restuccia G, Giordano N	52
1994 125	Thermodynamic analysis of SOFC fuelled by biomass-derived gas. International Journal of Hydrogen Energy, 19 (4), 369-376,	Alderucci V, Antonucci PL, Maggio G, Giordano N, Antonucci V	52
1996 156	FTIR spectroscopic investigation of the active sites on different types of silica catalysts for methane partial oxidation to formaldehyde. Catalysis Letters, 37 (3-4), 235-239, 1996	Vikulov K, Martra G, Coluccia S, Miceli D, Arena F, Parmaliana A, Paukshits E	52
2005 8-2005	Design, fabrication, and evaluation of a 1.5 F and 5 V prototype of solid-state electrochemical supercapacitor. Journal of the Electrochemical Society, 152 (3), A617-A621, 2005	Staiti P, Lufrano F	52

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2006 6-2006	Numerical approach to describe the phase change of an inorganic PCM containing carbon fibres. Applied Thermal Engineering, 26, pp.1883-1892, 2006	Frusteri F, Leonardi V, Maggio G	52
2011 2-2011	On the effective thermal conductivity of wetted zeolite under the working conditions of an adsorption chiller. Applied Thermal Engineering, 31 (14-15), 2241-2246, 2011	Dawoud B, Sohel MI, Freni A, Vasta S, Restuccia G	52
27-2011	Raman scattering of MnO _x -CeO _x composite catalysts: Structural aspects and laser-heating effects. Journal of Raman Spectroscopy, 42 (7), 1583-1588, 2011	Fazio B, Spadaro L, Trunfio G, Negro J, Arena F	52
2017 15-2017	Development and characterization of silane-zeolite adsorbent coatings for adsorption heat pump applications. Applied Thermal Engineering, 116, pp.364-371, 2017	Calabrese L, Brancato V, Bonaccorsi L, Frazzica A, Capri A, Freni A, Proverbio E	52
2018 10-2018	Efficient nickel-catalysed N-alkylation of amines with alcohols. Catalysis Science and Technology, 8 (21), pp.5498-5505, 2018	Afanasenko A, Elangovan S, Stuart MCA, Bonura G, Frusteri F, Barta K	52
2019 55-2019	Commercial platinum group metal-free cathodic electrocatalysts for highly performed direct methanol fuel cell applications. Journal of Power Sources, 437, art. no. 226948, 2019	Lo Vecchio C, Serov A, Romero H, Lubers A, Zulevi B, Aricò AS, Baglio V	52
2020 14-2020	Interaction effects between CuO-ZnO-ZrO ₂ methanol phase and zeolite surface affecting stability of hybrid systems during one-step CO ₂ hydrogenation to DME. Catalysis Today, 345, pp.175-182, 2020	Bonura G, Cannilla C, Frusteri L, Catizzone E, Todaro S, Migliori M, Giordano G, Frusteri F	52
2000 272	Investigation of unsupported Pt-Ru catalysts for high temperature methanol electro-oxidation. Electrochemistry Communications, 2, pp.466-470, 2000	Aricò AS, Monforte G, Modica E, Antonucci PL, Antonucci V	51
2002 19-2002	Study on the formation of Pt/C catalysts by non-oxidized active carbon support and a sulfur-based reducing agent. Journal of Materials Science, 37 (1), 133-139, 2002	Antolini E, Cardellini F, Giacometti E, Squadrito G	51
2009 25-2009	Electrochemical investigation of a propane-fed solid oxide fuel cell based on a composite Ni-perovskite anode catalyst. Applied Catalysis B: Environmental, 89 (1-2), 49-57, 2009	Lo Faro M, La Rosa Dn, Nicotera I, Antonucci V, Aricò	51
2015 21-2015	Failure behaviour of SPR joints after salt spray test. Engineering Structures, 82, pp.33-43, 2015	Calabrese L, Proverbio E, Di Bella G, Galtieri G, Borsellino C	51
41-2015	A nanostructured bifunctional Pd/C gas-diffusion electrode for metal-air batteries. Electrochimica Acta, 174, pp.508-515, 2015	McKerracher RD, Alegre C, Baglio V, Aricò AS, Ponce de León C, Mornaghini FC, Rodlert-Bacilieri M, Walsh FC	51
2017 40-2017	Hydrogen rich syngas production by air-steam gasification of citrus peel residues from citrus juice manufacturing: Experimental and simulation activities. International Journal of Hydrogen Energy, 42 (43), pp.26816-26827, 2017	Prestipino M, Chiodo V, Maisano S, Zafarana G, Urbani F, Galvagno A	51
2020 13-2020	The effect of modifier identity on the performance of Ni-based catalyst supported on γ -Al ₂ O ₃ in dry reforming of methane. Catalysis Today, 348, pp.236-242, 2020	Al-Fatesh AS, Kumar R, Kasim SO, Ibrahim AA, Fakeeha AH, Abasaeed AE, Alrasheed R, Bagabas AA, Chaudhary ML, Frusteri F, Chowdhury B	51
2009 7-2009	Nanosize effects, physicochemical properties, and catalytic oxidation pattern of the redox-precipitated MnCeO _x system. Journal of Physical Chemistry C: Nanomaterials and interfaces, 113, 2822-2829, 2009	Arena F, Trunfio G, Fazio B, Negro J, Spadaro L	50
2011 12-2011	Direct utilization of methanol in solid oxide fuel cells: An electrochemical and catalytic study. International Journal of Hydrogen Energy, 36 (16), 9977-9986, 2011	Lo Faro M, Stassi A, Antonucci V, Modafferi V, Frontera P, Antonucci PL, Aricò AS	50

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2012 2-2012	Efficiency and reactivity pattern of ceria-based noble metal and transition metal-oxide catalysts in the wet air oxidation of phenol. <i>Applied Catalysis B: Environmental</i> , 115-116, pp.336-345, 2012	Arena F, Italiano C, Spadaro L	50
2018 30-2018	Carbon-supported Pd and Pd-Co cathode catalysts for direct methanol fuel cells (DMFCs) operating with high methanol concentration. <i>Journal of Electroanalytical Chemistry</i> , 808, pp.464-473, 2018	Lo Vecchio C, Sebastián D, Alegre C, Aricò AS, Baglio V	50
31-2018	New insights about coke deposition in methanol-to-DME reaction over MOR-, MFI- and FER-type zeolites. <i>Journal of Industrial and Engineering Chemistry</i> , 68, pp.196-208, 2018	Migliori M, Catizzone E, Aloise A, Bonura G, Gómez-Hortigüela L, Frusteri L, Cannilla C, Frusteri F, Giordano G	50
2019 52-2019	Electrospun carbon nanofibers loaded with spinel-type cobalt oxide as bifunctional catalysts for enhanced oxygen electrocatalysis. <i>Journal of Energy Storage</i> , 23, pp.269-277, 2019	Alegre C, Busacca C, Di Blasi A, Di Blasi O, Aricò AS, Antonucci V, Modica E, Baglio V	50
2020 73-2020	Potable water extraction from the atmosphere: Potential of MOFs. <i>Renewable Energy</i> , 148, pp.72-80, 2020	Gordeeva LG, Solovyeva MV, Sapienza A, Aristov YI	50
1988 21	Zeolite heat pump for domestic heating. <i>Energy</i> , 13 (4), 333-342, 1988	Restuccia G, Recupero V, Cacciola G, Rothmeyer M	49
1997 179	Analysis of the chemical cross-over in a phosphotungstic acid electrolyte based fuel cell. <i>Electrochimica Acta</i> , 42 (11), 1645-1652, 1997	Giordano N, Staiti P, Aricò AS, Passalacqua E, Abate L, Hočevár S	49
2008 8-2008	An adsorptive solar ice-maker dynamic simulation for north Mediterranean climate. <i>Energy Conversion and Management</i> , 49 (11), 3025-3035, 2008	Vasta S, Maggio G, Santori G, Freni A, Polonara F, Restuccia G	49
2014 33-2014	Methane oxy-steam reforming reaction: Performances of Ru/ γ -Al ₂ O ₃ catalysts loaded on structured cordierite monoliths. <i>International Journal of Hydrogen Energy</i> , 39 (32), pp.18592-18603, 2014	Vita A, Cristiano G, Italiano C, Specchia S, Cipiti F, Specchia V	49
2016 40-2016	Functional nano-textured titania-coatings with self-cleaning and antireflective properties for photovoltaic surfaces. <i>Solar Energy</i> , 125, pp.227-242, 2016	Salvaggio MG, Passalacqua R, Abate S, Perathoner S, Centi G, Lanza M, Stassi A	49
2019 26-2019	Thermal integration of a high-temperature co-electrolyzer and experimental methanator for Power-to-Gas energy storage system. <i>Energy Conversion and Management</i> , 186, pp.140-155,	Ancona MA, Antonucci V, Branchini L, Catena F, De Pascale A, Di Blasi A, Ferraro M, Italiano C, Melino F, Vita A	49
1990 43	An investigation of the effects of electrode preparation parameters on the performance of phosphoric acid fuel cell cathodes. <i>Electrochimica Acta</i> , 35 (9), 1411-1421, 1990	Giordano N, Passalacqua E, Recupero V, Vivaldi M, Taylor EJ, Wilemski G	48
2004 13-2004	Integrated synthesis of dimethylether via CO ₂ hydrogenation. <i>Studies in Surface Science and Catalysis</i> , 147, 385-390, 2004	Arena F, Spadaro L, Di Blasi O, Bonura G, Frusteri F	48
2006 33-2006	Electrochemical analysis of direct methanol fuel cell for low temperature operation. <i>International Journal of Electrochemical Science</i> , 1 (2), pp.71-79, 2006	Baglio V, Di Blasi A, Modica E, Cretì P, Antonucci V, Aricò AS	48
2007 17-2007	CO-tolerant electrodes developed with phosphomolybdic acid for polymer electrolyte fuel cell (PEFCs) application. <i>Journal of Power Sources</i> , 171, pp.540-545, 2007	Gatto I, Saccà A, Carbone A, Pedicini R, Urbani F, Passalacqua E	48
2012 17-2012	H ₂ production by methane decomposition: Catalytic and technological aspects. <i>International Journal of Hydrogen Energy</i> , 37 (21), 16367-16374, 2012	Frusteri F, Italiano G, Espro C, Cannilla C, Bonura G	48
2013 21-2013	Data driven models for a PEM fuel cell stack performance prediction. <i>International Journal of Hydrogen Energy</i> , 38 (26), pp.11628-11638, 2013	Napoli G, Ferraro M, Sergi F, Brunaccini G, Antonucci V	48

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2017 21-2017	CO ₂ reduction to alcohols in a polymer electrolyte membrane co-electrolysis cell operating at low potentials. <i>Electrochimica Acta</i> , 241, pp.28-40, 2017	Sebastián D, Palella A, Baglio V, Spadaro L, Siracusano S, Negro P, Niccoli F, Aricò AS	48
22-2017	Electrochemical performance investigation of electrospun urchin-like V ₂ O ₃ -CNF composite nanostructure for vanadium redox flow battery. <i>Electrochimica Acta</i> , 230, pp.174-180, 2017	Busacca C, Di Blasi O, Briguglio N, Ferraro M, Antonucci V, Di Blasi A	48
31-2017	Syngas production by catalytic steam gasification of citrus residues. <i>International Journal of Hydrogen Energy</i> , 42 (46), pp.28048-28055, 2017	Chiodo V, Urbani F, Zafarana G, Prestipino M, Galvagno A, Maisano S	48
4-2017	The influence of different promoter oxides on the functionality of hybrid CuZn-ferrierite systems for the production of DME from CO ₂ -H ₂ mixtures. <i>Applied Catalysis A: General</i> , 544, pp.21-29, 2017	Bonura G, Cannilla C, Frusteri L, Frusteri F	48
2019 54-2019	Chemically stabilised extruded and recast short side chain Aquivion® proton exchange membranes for high current density operation in water electrolysis. <i>Journal of Membrane Science</i> , 578, pp.136-148, 2019	Siracusano S, Oldani C, Navarra MA, Tonella S, Mazzapioda L, Briguglio N, Aricò AS	48
2020 45-2020	Research trends and perspectives of thermal management of electric batteries: Bibliometric analysis. <i>Journal of Energy Storage</i> , 32, art. no. 101976, 2020	Cabeza LF, Frazzica A, Chàfer M, Vérez D, Palomba V	48
1998 212	Preparation and characterization of thin film ZnCuTe semiconductors. <i>Solar Energy Materials and Solar Cells</i> , 53 (3-4), 255-267, 1998	Pistone A, Aricò AS, Antonucci PL, Silvestro D, Antonucci V	47
2010 21-2010	Methane decomposition over Co thin layer supported catalysts to produce hydrogen for fuel cell. <i>International Journal of Hydrogen Energy</i> , 35 (20), 11568-11575, 2010	Italiano G, Delia A, Espro C, Bonura G, Frusteri F	47
2015 39-2015	Investigation of the activity and stability of Pd-based catalysts towards the oxygen reduction (ORR) and evolution reactions (OER) in iron-air batteries. <i>RSC Advances</i> , 5 (32), pp.25424-	Alegre C, Stassi A, Modica E, Lo Vecchio C, Aricò AS, Baglio V	47
2018 24-2018	Syngas production by steam and oxy-steam reforming of biogas on monolith-supported CeO ₂ -based catalysts. <i>International Journal of Hydrogen Energy</i> , 43 (26), pp.11731-11744, 2018	Vita A, Italiano C, Ashraf MA, Pino L, Specchia S	47
48-2018	Catalytic stability of a Ni-catalyst towards biogas reforming in the presence of deactivating trace compounds. <i>Renewable Energy</i> , 127, pp.481-494, 2018	Papurello D, Chiodo V, Maisano S, Lanzini A, Santarelli M	47
53-2018	EDTA-derived Co-N-C and Fe-N-C electro-catalysts for the oxygen reduction reaction in acid environment. <i>Renewable Energy</i> , 120, pp.342-349, 2018	Lo Vecchio C, Aricò AS, Monforte G, Baglio V	47
1982 p9-1982	Magnesium oxide as a catalyst support: The influence of chlorine. <i>Applied Catalysis</i> , 3 (2), 131-139, 1982	Leofanti G, Solari M, Tauszik GR, Garbassi F, Galvagno S, Schwank J	46
1993 102	Dynamic simulation of a recuperative adsorption heat pump. <i>Energy</i> , 18 (11), 1125-1137, 1993	Cacciola G, Hajji A, Maggio G, Restuccia G	46
2001 288	Development and operation of a 150-W air-feed direct methanol fuel cell stack. <i>Journal of Applied Electrochemistry</i> , 31 (3), 275-279, 2001	Buttin D, Dupont M, Straumann M, Gille R, Dubois JC, Ornelas R, Fleba GP, Ramunni E, Antonucci V, Aricò AS, Creti P, Modica E, Pham-Thi M, Ganne JP	46
2007 26-2007	Investigation of Pt-Ru nanoparticle catalysts for low temperature methanol electro-oxidation. <i>Journal of Solid State Electrochemistry</i> , 11 (9), 1229-1238, 2007	García G, Baglio V, Stassi A, Pastor E, Antonucci V, Aricò AS	46

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2008 27-2008	Facile synthesis of polyaniline using gold catalyst. Journal of Catalysis, 259, pp.1-4, 2008	Chen Z, Della Pina C, Falletta E, Lo Faro M, Pasta M, Rossi M, Santo N	46
2013 11-2013	Effect of curing time on the performances of hybrid/mixed joints. Composites Part B: Engineering, 45 (1), pp.911-918, 2013	Fiore V, Alagna F, Galtieri G, Borsellino C, Di Bella G, Valenza A	46
14-2013	Performance evaluation of a solid oxide fuel cell coupled to an external biogas tri-reforming process. Fuel Processing Technology, 115, pp.238-245, 2013	Lo Faro M, Vita A, Pino L, Aricò AS	46
2015 28-2015	Performance of a PEM water electrolyser combining an IrRu-oxide anode electrocatalyst and a shortside chain Aquivion membrane. International Journal of Hydrogen Energy, 40 (42), pp.14430-14435, 2015	Siracusano S, Baglio V, Moukheiber E, Merlo L, Aricò AS	46
2017 13-2017	Thermal integration of a SOFC power generator and a Na-NiCl ₂ battery for CHP domestic application. Applied Energy, 185, pp.1256-1267, 2017	Antonucci V, Branchini L, Brunaccini G, De Pascale A, Ferraro M, Melino F, Orlandini V, Sergi F	46
2019 35-2019	Electrospun NiMn ₂ O ₄ and NiCo ₂ O ₄ spinel oxides supported on carbon nanofibers as electrocatalysts for the oxygen evolution reaction in an anion exchange membrane-based electrolysis cell. International Journal of Hydrogen Energy, 44 (38), pp.20987-20996, 2019	Busacca C, Zignani SC, Di Blasi A, Di Blasi O, Lo Faro M, Antonucci V, Aricò AS	46
1982 p3-1982	Utilization of zeolites as soil conditioner in tomato-growing. Zeolites, 2 (4), 271-274, 1982	Valente S, Burriesci N, Cavallaro S, Galvagno S, Zipelli C	45
1984 p5-1984	Hydrothermal synthesis of zeolites from low-cost natural silica-alumina sources. Zeolites, 4 (4), 384-388, 1984	Burriesci N, Crisafulli ML, Giordano N, Bart JCJ, Polizzotti G	45
2006 31-2006	An NMR spectroscopic study of water and methanol transport properties in DMFC composite membranes: Influence on the electrochemical behaviour. Journal of Power Sources, vol.163, pp.52-55, 2006	Baglio V, Aricò AS, Antonucci V, Nicotera I, Oliviero Rossi C, Coppola L, Antonucci PL	45
2007 21-2007	A study of the electrochemical behaviour of electrodes in operating solid-state supercapacitors. Electrochimica Acta, 53,	Staiti P, Lufrano F	45
6-2007	Influence of characteristics of methanol sorbents "salts in mesoporous silica" on the performance of adsorptive air conditioning cycle. Industrial & Engineering Chemistry Research, 46 (9), 2747-2752, 2007	Gordeeva LG, Freni A, Restuccia G, Aristov YI	45
2014 25-2014	Glycerol etherification with TBA: High yield to poly-ethers using a membrane assisted batch reactor. Environmental Science & Technology, 48 (10), pp.6019-6026, 2014	Cannilla C, Bonura G, Frusteri L, Frusteri F	45
2017 19-2017	Potential of pervaporation and vapor separation with water selective membranes for an optimized production of biofuels — A review. Catalysts, 7 (6), art. no. 187, 2017	Cannilla C, Bonura G, Frusteri F	45
2018 14-2018	Analysis of Ru/La-Al ₂ O ₃ catalyst loading on alumina monoliths and controlling regimes in methane steam reforming. Chemical Engineering Journal, 334, pp.1792-1807, 2018	Ashraf MA, Sanz O, Italiano C, Vita A, Montes M, Specchia S	45
2019 60-2019	Life cycle energy and environmental impacts of a solid oxide fuel cell micro-CHP system for residential application. Science of the Total Environment, 685, pp.59-73, 2019	Longo S, Cellura M, Guarino F, Brunaccini G, Ferraro M	45
2020 38-2020	Posidonia oceanica and wood chips activated carbon as interesting materials for hydrogen storage. International Journal of Hydrogen Energy, 45 (27), pp.14038-14047, 2020	Pedicini R, Maisano S, Chiodo V, Conte G, Policicchio A, Agostino RG	45

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2020 58-2020	Desilicated ZSM-5 zeolite: Catalytic performances assessment in methanol to DME dehydration. Microporous and Mesoporous Materials, 302, art. no. 110198, 2020	Aloise A, Marino A, Dalena F, Giorgianni G, Migliori M, Frusteri L, Cannilla C, Bonura G, Frusteri F, Giordano G	45
1989 30	A comparative analysis of structural and surface effects in the electrochemical corrosion of carbons. Materials Chemistry and Physics, 21 (5), 495-506, 1989	Antonucci PL, Pino L, Giordano N, Pinna G	44
1991 55	Morphological characteristics of PTFE bonded gas diffusion electrodes. Electrochimica Acta, 36 (5-6), 1049-1055, 1991	Giordano N, Passalacqua E, Alderucci V, Staiti P, Pino L, Mirzaian H, Taylor EJ, Wilemski G	44
2005 14-2005	High temperature proton exchange membrane fuel cell using a sulfonated membrane obtained via H ₂ SO ₄ treatment of PEEK-WC. Catalysis Today, 104, 213-218, 2005	Paturzo L, Basile AB, Iulianelli A, Jansen JC, Gatto I, Passalacqua E	44
2006 15-2006	Physico-chemical properties and reactivity of Au/CeO ₂ catalysts in total and selective oxidation of CO. Catalysis Today, 116 (3), 384-390, 2006	Arena F, Famulari P, Interdonato N, Bonura G, Frusteri F, Spadaro L	44
2008 1-2008	Polymer electrolyte fuel cell stack research and development. International Journal of Hydrogen Energy, 33, 1941-1946, 2008	Squadrito G, Barbera O, Giacoppo G, Urbani F, Passalacqua E	44
3-2008	Sulphonated polysulphone membranes for medium temperature in polymer electrolyte fuel cells (PEFC). Polymers Testing, 27, 248-259, 2008	Pedicini R, Carbone A, Saccà A, Gatto I, Di Marco G, Passalacqua E	44
2012 18-2012	The influence of carbon nanofiber support properties on the oxygen reduction behavior in proton conducting electrolyte-based direct methanol fuel cells. International Journal of Hydrogen Energy, 37 (7), 6253-6260, 2012	Sebastián D, Lázaro MJ, Suelves I, Moliner R, Baglio V, Stassi A, Aricò AS	44
2013 24-2013	Design and testing of a compact PEM electrolyzer system. International Journal of Hydrogen Energy, 38 (26), pp.11519-11529, 2013	Briguglio N, Brunaccini G, Siracusano S, Randazzo N, Dispenza G, Ferraro M, Ornelas R, Aricò AS, Antonucci V	44
2014 43-2014	Fabrication of folic acid sensor based on the Cu doped SnO ₂ nanoparticles modified glassy carbon electrode. Nanotechnology, 25 (29), art. no. 295501, 2014	Lavanya N, Radhakrishnan S, Sudhan N, Sekar C, Leonardi SG, Cannilla C, Neri Gv	44
2015 18-2015	Ethanol adsorption onto carbonaceous and composite adsorbents for adsorptive cooling system. Energy, 84, pp.177-185, 2015	Brancato V, Frazzica A, Sapienza A, Gordeeva LG, Freni A	44
2017 60-2017	Increasing the share of renewables through adsorption solar cooling: A validated case study. Renewable Energy, 110, pp.126-	Palomba V, Vasta S, Freni A, Pan Q, Wang R, Zhai X	44
72-2017	Development of a fuel cell hybrid electric powertrain: A real case study on a Minibus application. International Journal of Hydrogen Energy, 42 (46), pp.28034-28047, 2017	Napoli G, Micari S, Dispenza G, Di Novo S, Antonucci V, Andaloro L	44
9-2017	A new management strategy based on the reallocation of ads-/desorption times: Experimental operation of a full-scale 3 beds adsorption chiller. Applied Energy, 205, pp.1081-1090, 2017	Sapienza A, Palomba V, Gulli G, Frazzica A, Vasta S	44
2018 6-2018	On the promotional effect of Cu on Pt for hydrazine electrooxidation in alkaline medium. Applied Catalysis B: Environmental, 236, pp.36-44, 2018	Crisafulli R, Silva de Barros VV, Rodrigues de Oliveira FE, de Araújo Rocha T, Zignani SC, Spadaro L, Palella A, Dias JA, Linares JJ	44
2019 65-2019	Self-supporting graphene oxide films preparation and characterization methods. Vacuum, 160, pp.1-11, 2019	Torrisi L, Cutroneo M, Havranek V, Silipigni L, Fazio B, Fazio M, Di Marco G, Stassi A, Torrisi A	44

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2020 36-2020	Production of hydrogen by methane dry reforming: A study on the effect of cerium and lanthanum on Ni/MgAl ₂ O ₄ catalyst performance. International Journal of Hydrogen Energy, 45 (41), pp.21392-21408, 2020	Akiki E, Akiki D, Italiano C, Vita A, Abbas-Ghaleb R, Chlala D, Drago Ferrante G, Laganà M, Pino L, Specchia S	44
68-2020	Hydrogen production via steam reforming of glycerol over Rh/ γ -Al ₂ O ₃ catalysts modified with CeO ₂ , MgO or La ₂ O ₃ . Renewable Energy, 162, pp.908-925, 2020	Charisiou ND, Italiano C, Pino L, Sebastian V, Vita A, Goula MA	44
1998 232	Syngas and electricity production by an integrated autothermal reforming/molten carbonate fuel cell system. Journal of Power Sources, Vol. 76, pp.190-196, 1998	Cavallaro S, Freni S	43
2007 12-2007	Hydrogen production from ethanol on Rh/MgO based catalysts. The influence of rhodium precursor on catalytic performance. International Journal of Hydrogen Energy, 32, 3335-3342, 2007	Palmeri N, Cavallaro S, Chiodo V, Freni S, Frusteri F, Bart JCJ	43
2016 41-2016	Immobilized transition metal-based radical scavengers and their effect on durability of Aquivion® perfluorosulfonic acid membranes. Journal of Power Sources, 301, pp.317-325, 2016	D'Urso C, Oldani C, Baglio V, Merlo L, Aricò AS	43
44-2016	Sorbents with high efficiency for CO ₂ capture based on amines-supported carbon for biogas upgrading. Journal of Environmental Sciences, 48, pp.138-150, 2016	Pino L, Italiano C, Vita A, Fabiano C, Recupero V	43
2018 49-2018	NiCo-loaded carbon nanofibers obtained by electrospinning: Bifunctional behavior as air electrodes. Renewable Energy, 125, pp.250-259, 2018	Alegre C, Modica E, Di Blasi A, Di Blasi O, Busacca C, Ferraro M, Aricò AS, Antonucci V, Baglio V	43
2020 32-2020	Development of "salt in porous matrix" composites based on LiCl for sorption thermal energy storage. Energy, 208, art. no. 118338, 2020	Frazzica A, Brancato V, Capri A, Cannilla C, Gordeeva LG, Aristov YI	43
1993 98	Oxygen reduction kinetics in phosphotungstic acid at low temperature. Electrochimica Acta, 38 (13), 1733-1741, 1993	Giordano N, Aricò AS, Hočevar S, Staiti P, Antonucci PL, Antonucci V	42
1996 153	Highly effective vanadia-silica catalyst for propane oxidative dehydrogenation. Applied Catalysis A: General, 135, pp.L1-L5, 1996	Parmaliana A, Sokolovskii VD, Miceli D, Giordano N	42
2007 13-2007	Initial steps in the production of H ₂ from ethanol: a FT-IR study of adsorbed species on Ni/MgO catalyst surface. Reaction Kinetics and Catalysis Letters, 90 (1), 117-126, 2007	Resini C, Cavallaro S, Frusteri F, Freni S, Busca G	42
2011 10-2011	Carbon xerogel and manganese oxide capacitive materials for advanced supercapacitors. International Journal of Electrochemical Science, 6 (3), 596-612, 2011	Lufrano F, Staiti P, Calvo EG, Juárez-Pérez EJ, Menéndez JA, Arenillas A	42
2013 17-2013	Mechanical characterization of adhesive joints with dissimilar substrates for marine applications. International Journal of Adhesion and Adhesives, 41, pp.33-40, 2013	Di Bella G, Galtieri G, Pollicino E, Borsellino C	42
2020 52-2020	Effect of sheep wool fibers on thermal insulation and mechanical properties of cement-based composites. Journal of Natural Fibers, 17 (10), pp.1532-1543, 2020	Fiore V, Di Bella G, Valenza A	42
70-2020	Coupling sorption and compression chillers in hybrid cascade layout for efficient exploitation of renewables: Sizing, design and optimization. Renewable Energy, 154, pp.11-28, 2020	Palomba V, Dino GE, Frazzica A	42
1983 p3-1983	Zeolitization of pumice in ash-sodium salt solutions. Materials Chemistry and Physics, 8 (3), 207-216, 1983	Saija LM, Ottanà R, Zipelli C, Burriesci N	41
1984 p1-1984	Utilization of zeolites in spinach growing. Zeolites, 4 (1), 5-8, 1984	Burriesci N, Valente S, Ottanà R, Cimino G, Zipelli C	41

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1986 p15-1986	Selective hydrogenation of α - β unsaturated aldehydes to give unsaturated alcohols over platinum-germanium catalysts. Journal of the Chemical Society, Chemical Communications, n. 23, 1729-1731, 1986	Galvagno S, Poltarzewski Z, Donato A, Neri Gv, Pietropaolo	41
2014 28-2014	Numerical simulation model for the preliminary design of hybrid electric city bus power train with polymer electrolyte fuel cell. International Journal of Hydrogen Energy, 39 (24), pp.12934-12947, 2014	De Lorenzo G, Andaloro L, Sergi F, Napoli G, Ferraro M, Antonucci V	41
35-2014	Towards new generation fuel cell electrocatalysts based on xerogel-nanofiber carbon composites. Journal of Materials Chemistry A: Materials for energy and sustainability, 2 (33), pp.13713-13722, 2014	Sebastián D, Alegre C, Gálvez ME, Moliner R, Lázaro MJ, Aricò AS, Baglio V	41
2015 32-2015	Investigation of Ni-based alloy/CGO electro-catalysts as protective layer for a solid oxide fuel cell anode fed with ethanol. Journal of Applied Electrochemistry, 45 (7), pp.647-656, 2015	Lo Faro M, Reis RM, Saglietti GGA, Zignani SC, Trocino S, Frontera P, Antonucci PL, Ticianelli EA, Aricò AS	41
2016 29-2016	Simple and functional direct methanol fuel cell stack designs for application in portable and auxiliary power units. International Journal of Hydrogen Energy, 41 (28), pp.12320-12329, 2016	Barbera O, Stassi A, Sebastián D, Bonde JL, Giaccoppo G, D'Urso C, Baglio V, Aricò AS	41
2018 29-2018	Bifunctional oxygen electrode based on a perovskite/carbon composite for electrochemical devices. Journal of Electroanalytical Chemistry, 808, pp.412-419, 2018	Alegre C, Modica E, Aricò AS, Baglio V	41
2019 63-2019	Thermal performance of hybrid cement mortar-PCMs for warm climates application. Solar Energy Materials and Solar Cells, 193, pp.270-280, 2019	Frazzica A, Brancato V, Palomba V, La Rosa Dv, Grungo F, Calabrese L, Proverbio E	41
2020 75-2020	CO gas sensing performance of electrospun Co_3O_4 nanostructures at low operating temperature. Sensors and Actuators B: Chemical, 303, art. no. 127193, 2020	Busacca C, Donato A, Lo Faro M, Malara A, Neri Gv, Trocino S	41
1991 58	A voltammetric study of the electrodeposition chemistry in the Fe-S system. Electrochimica Acta, 36 (3-4), 581-590, 1991	Aricò AS, Antonucci V, Antonucci PL, Cocke DL, Giordano N	40
2008 13-2008	Pt-Fe cathode catalysts to improve the oxygen reduction reaction and methanol tolerance in direct methanol fuel cells. Journal of Solid State Electrochemistry, 12, 643-649, 2008	Castro Luna AM, Bonesi A, Triaca WE, Baglio V, Antonucci V, Aricò AS	40
2012 16-2012	Investigation of composite Nafion/sulfated zirconia membrane for solid polymer electrolyte electrolyzer applications. International Journal of Electrochemical Science, 7 (2), 1532-1542, 2012	Siracusano S, Baglio V, Navarra MA, Panero S, Antonucci V, Aricò AS	40
2015 40-2015	Composite polymer electrolyte membranes based on Mg-Al layered double hydroxide (LDH) platelets for H_2 /air-fed fuel cells. Solid State Ionics, 276, pp.40-46, 2015	Nicotera I, Angjeli K, Coppola L, Enotiadis A, Pedicini R, Carbone A, Gournis D	40
2016 42-2016	Performance analysis of Fe-N-C catalyst for DMFC cathodes: Effect of water saturation in the cathodic catalyst layer. International Journal of Hydrogen Energy, 41 (47), pp.22605-	Monteverde Videla AHA, Sebastián D, Vasile NS, Osmieri L, Aricò AS, Baglio V, Specchia S	40
2017 17-2017	Experimental testing of AQSOA FAM Z02/water adsorption system for heat and cold storage. Applied Thermal Engineering, 124, pp.967-974, 2017	Palomba V, Vasta S, Freni A	40
2018 59-2018	Evaluation of Co-Ni/Sc-SBA-15 as a novel coke resistant catalyst for syngas production via CO_2 reforming of methane. Applied Catalysis A: General, 567, pp.102-111, 2018	Al-Fatesh AS, Arafat Y, Ibrahim AA, Atia H, Fakeeha AH, Armbruster U, Abasaheed AE, Frusteri F	40
2019 25-2019	Integration into a citrus juice factory of air-steam gasification and CHP system: Energy sustainability assessment. Energy Conversion and Management, 193, pp.74-85, 2019	Galvagno A, Prestipino M, Maisano S, Urbani F, Chiodo V	40

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2020 21-2020	Recent developments in coating technologies for adsorption heat pumps: A review. Coatings, 10 (9), art. no. 855, 2020	Capri A, Frazzica A, Calabrese L	40
53-2020	Analysis of performance degradation during steady-state and load-thermal cycles of proton exchange membrane water electrolysis cells. Journal of Power Sources, 468, art. no. 228390,	Siracusano S, Trocino S, Briguglio N, Pantò F, Aricò AS	40
2022 5-2022	Hydrogen and medical oxygen by renewable energy based electrolysis: A green and economically viable route. Applied Energy, 306, art. no. 117993, 2022	Maggio G, Squadrito G, Nicita A	40
1987 6	Alkylation of toluene with methanol III: Para-selectivity on modified ZSM-5 zeolites. Zeolites, 7, 408-411, 1987	Cavallaro S, Pino L, Tsiakaras P, Giordano N, Rao BS	39
1990 40	The role of Pt-loading, thermal treatment and exposure to air on the acid-base behavior of a Pt/carbon black catalyst. Carbon, 28 (5), 599-609, 1990	Aricò AS, Antonucci V, Pino L, Antonucci PL, Giordano N	39
1992 72	ac impedance spectroscopy of porous gas diffusion electrode in sulphuric acid. Electrochimica Acta, Vol. 37, pp.523-529, 1992	Aricò AS, Alderucci V, Antonucci V, Ferrara S, Recupero V, Giordano N, Kinoshita K	39
1996 161	Partial oxidation of CH ₄ in solid oxide fuel cells: simulation model of the electrochemical reactor and experimental validation. Chemical Engineering Science, 51 (11), 3013-3018, 1996	Costamagna P, Arato E, Antonucci PL, Antonucci V	39
1998 207	CO and CO/H ₂ electro-oxidation on carbon supported Pt-Ru catalyst in phosphotungstic acid (H ₃ PW ₁₂ O ₄₀) electrolyte. Journal of Applied Electrochemistry, Vol.28, pp.881-887, 1998	Aricò AS, Modica E, Ferrara I, Antonucci V	39
2013 26-2013	Design of a hybrid electric fuel cell power train for an urban bus. International Journal of Hydrogen Energy, 38 (18), pp.7725-7732, 2013	Andaloro L, Napoli G, Sergi F, Dispenza G, Antonucci v	39
48-2013	Glycerol ethers production and engine performance with diesel/ethers blend. Topics in Catalysis, 56 (1-8), pp.378-383, 2013	Frusteri F, Cannilla C, Bonura G, Spadaro L, Mezzapica A, Beatrice C, Di Blasio G, Guido C	39
2014 24-2014	Adsorption cooling utilizing the "LiBr/silica - ethanol" working pair: Dynamic optimization of the adsorber/heat exchanger unit. Energy, 75, pp.390-399, 2014	Gordeeva LG, Frazzica A, Sapienza A, Aristov YI, Freni A	39
36-2014	Development of an ammonia sensor based on silver nanoparticles in a poly-methacrylic acid matrix. Journal of Materials Chemistry C: Materials for optical, magnetic and electronic devices, 2 (29), pp.5778-5786, 2014	Cannilla C, Bonura G, Frusteri F, Spadaro L, Trocino S, Neri Gv	39
2015 31-2015	Biogas-fed solid oxide fuel cell (SOFC) coupled to tri-reforming process: Modelling and simulation. International Journal of Hydrogen Energy, 40 (42), pp.14640-14650, 2015	Manenti F, Pelosato R, Vallevi P, Leon-Garzon AR, Dotelli G, Vita A, Lo Faro M, Maggio G, Pino L, Aricò AS	39
2016 39-2016	Design of a biogas steam reforming reactor: A modelling and experimental approach. International Journal of Hydrogen Energy, 41 (27), pp.11577-11583, 2016	Cipiti F, Barbera O, Briguglio N, Giacoppo G, Italiano C, Vita A	39
2017 45-2017	Effect of pollutants on biogas steam reforming. International Journal of Hydrogen Energy, 42 (3), pp.1622-1628, 2017	Chiodo V, Maisano S, Zafarana G, Urbani F	39
2021 28-2021	New clean energy communities in polycentric settings: Four avenues for future research. Energy Research & Social Science, 82, art. no. 102276, 2021	Blasch J, van der Grijp NM, Petrovics D, Palm J, Bocken N, Darby SJ, Barnes J, Hansen P, Kamin T, Golob U, Andor M, Sommer S, Nicita A, Musolino M, Mlinarič M	39

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2021 31-2021	Optimizing acido-basic profile of support in Ni supported $\text{La}_2\text{O}_3+\text{Al}_2\text{O}_3$ catalyst for dry reforming of methane. International Journal of Hydrogen Energy, 46 (27), pp.14225-	Al-Mubaddel FS, Kumar R, Sofiu ML, Frusteri F, Ibrahim AA, Srivastava VK, Kasim SO, Fakeeha AH, Abasaeed AE, Osman AI, Al-Fatesh AS	39
2007 20-2007	In-situ growth of zeolites on metal foamed supports for adsorption heat pumps. Journal of Chemical Engineering of Japan, 40 (13), 1307-1312, 2007	Bonaccorsi L, Proverbio E, Freni A, Restuccia G	38
2008 4-2008	Synthesis of highly dispersed MnCeO_x catalysts via a novel "redox-precipitation" route. Materials Research Bulletin, 43, 539-545, 2008	Arena F, Trunfio G, Negro J, Spadaro L	38
2012 32-2012	Alternative energy scenarios for small islands: A case study from Salina Island (Aeolian Islands, Southern Italy). Renewable Energy, 47, pp.135-146, 2012	Andaloro APF, Salomone R, Andaloro L, Briguglio N, Sparacia S	38
2017 64-2017	Energy balance and life cycle assessment of small size residential solar heating and cooling systems equipped with adsorption chillers. Solar Energy, 158, pp.543-558, 2017	Longo S, Palomba V, Beccali M, Cellura M, Vasta S	38
66-2017	Silicone composite foams for adsorption heat pump applications. Sustainable Materials and Technologies, 12, pp.27-34, 2017	Calabrese L, Bonaccorsi L, Freni A, Proverbio E	38
2018 33-2018	Two-dimensional electronic spectroscopy reveals dynamics and mechanisms of solvent-driven inertial relaxation in polar BODIPY dyes. Journal of Physical Chemistry Letters, 9 (5), pp.1079-1085, 2018	Bolzonello L, Polo A, Volpato A, Meneghin E, Cordaro Ms, Trapani M, Fortino M, Pedone A, Castriciano MA, Collini E	38
2019 58-2019	Components and design guidelines for solar cooling systems: The experience of ZEOSOL. Renewable Energy, 141, pp.678-692,	Palomba V, Wittstadt U, Bonanno A, Tanne M, Harborth N, Vasta S	38
2020 33-2020	Biogas beyond CHP: The HPC (heat, power & chemicals) process. Energy, 203, art. no. 117820, 2020	Furtado Amaral A, Previtali D, Bassani A, Italiano C, Palella A, Pino L, Vita A, Bozzano G, Pirola C, Manenti F	38
1992 73	Thermal conductivity of natural zeolite - PTFE composites. Heat Recovery Systems & CHP, 12 (6), 497-503, 1992	Basile A, Cacciola G, Colella C, Mercadante L, Pansini M	37
1993 100	Effect of the metal oxide loading on the activity of silica supported MoO_3 and V_2O_5 catalysts in the selective partial oxidation of methane. Catalysis Letters, 18, pp.283-288, 1993	Miceli D, Arena F, Parmaliana A, Scurrell MS, Giordano N	37
1996 166	Silica-supported molybdena catalysts. Surface structures, reduction pattern and oxygen chemisorption. Journal of Physical Chemistry, 100 (51), 19994-20005, 1996	Arena F, Parmaliana A	37
172	Effect of vanadia loading in propane oxidative dehydrogenation on $\text{V}_2\text{O}_5/\text{SiO}_2$ catalysts. Catalysis Letters, 41 (1-2), 41-43, 1996	Puglisi M, Arena F, Frusteri F, Sokolovskii VD, Parmaliana A	37
1998 225	Morphological characteristics of carbon/polytetrafluoroethylene films on porous carbon support. Journal of Materials Science, 33 (7), 1837-1843, 1998	Antolini E, Pozio A, Giorgi L, Passalacqua E	37
2007 2-2007	Propane conversion over a Ru/CGO catalyst and its application in intermediate temperature solid oxide fuel cells. Journal of Applied Electrochemistry, vol.37, pp.203-208, 2007	Lo Faro M, La Rosa Dn, Monforte G, Antonucci V, Aricò AS, Antonucci PL	37
2012 35-2012	Solid polymer electrolyte based on sulfonated polysulfone membranes and acidic silica for direct methanol fuel cells. Solid State Ionics, 216, pp.90-94, 2012	Lufano F, Baglio V, Di Blasi O, Staiti P, Antonucci V, Aricò AS	37
2013 1-2013	Oxide-supported PtCo alloy catalyst for intermediate temperature polymer electrolyte fuel cells. Applied Catalysis B: Environmental, 142-143, pp.15-24, 2013	Stassi A, Gatto I, Baglio V, Passalacqua E, Aricò AS	37

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2014 10-2014	Novel experimental methodology for the characterization of thermodynamic performance of advanced working pairs for adsorptive heat transformers. Applied Thermal Engineering, 72 (2), pp.229-236, 2014	Frazzica A, Sapienza A, Freni A	37
23-2014	Progress in polymeric material for hydrogen storage application in middle conditions. Energy, 64, pp.607-614, 2014	Pedicini R, Schiavo B, Rispoli P, Saccà A, Carbone A, Gatto I, Passalacqua E	37
2016 51-2016	Durability of hybrid clinch-bonded steel/aluminum joints in salt spray environment. International Journal of Advanced Manufacturing Technology, 87 (9-12), pp.3137-3147, 2016	Calabrese L, Galtieri G, Borsellino C, Di Bella G, Proverbio E	37
2017 24-2017	On the impact of different management strategies on the performance of a two-bed activated carbon/ethanol refrigerator: An experimental study. Energy Conversion and Management, 142, pp.322-333, 2017	Palomba V, Dawoud B, Sapienza A, Vasta S, Frazzica A	37
2018 35-2018	Synthesis and characterization of electrospun nickel-carbon nanofibers as electrodes for vanadium redox flow battery. Journal of the Electrochemical Society, 165 (7), A1478-A1485, 2018	Di Blasi A, Busacca C, Di Blasi O, Briguglio N, Antonucci V	37
2019 59-2019	An experimental study on the corrosion sensitivity of metal alloys for usage in PCM thermal energy storages. Renewable Energy, 138, pp.1018-1027, 2019	Calabrese L, Brancato V, Palomba V, Proverbio E	37
2020 35-2020	High-temperature CO ₂ methanation over structured Ni/GDC catalysts: Performance and scale-up for Power-to-Gas application. Fuel Processing Technology, 202, art. no. 106365,	Vita A, Italiano C, Pino L, Laganà M, Ferraro M, Antonucci V	37
1992 81	Thermodynamic analysis of methane fueled solid oxide fuel cell system. International Journal of Hydrogen Energy, 17 (6), 451-458, 1992	Demin AK, Alderucci V, Ielo I, Fadeev GI, Maggio G, Giordano N, Antonucci V	36
1995 137	Temperature-programmed reaction: a powerful and reliable method for catalyst testing in the partial oxidation of methane to formaldehyde. Applied Catalysis A: General, 125, pp.39-59, 1995	Arena F, Frusteri F, Parmaliana A, Giordano N	36
1996 151	A comparative study of the partial oxidation of methane to formaldehyde on bulk and silica supported MoO ₃ and V ₂ O ₅ catalysts. Catalysis Today, 28, pp.363-371, 1996	Parmaliana A, Arena F, Sokolovskii VD, Frusteri F, Giordano N	36
1997 176	Electrodeposited thin film ZnTe semiconductors for photovoltaic applications. Advanced Performance Materials, Vol. 4, pp.115-125, 1997	Aricò AS, Silvestro D, Antonucci PL, Giordano N, Antonucci V	36
1999 238	Influence of the adsorber heat exchanger design on the performance of the heat pump system. Applied Thermal Engineering, 19 (3), 255-269, 1999	Cacciola G, Restuccia G, Van Benthem GHW	36
2000 257	Modelling the partial oxidation of methane to formaldehyde on silica catalyst. Applied Catalysis A: General, 197 (2), 239-246, 2000	Arena F, Frusteri F, Parmaliana	36
2009 26-2009	Gold-catalysed synthesis of polypyrrole. Gold Bulletin, 42 (1), 27-33, 2009	Della Pina C, Falletta E, Lo Faro M, Pasta M, Rossi M	36
30-2009	Composite sorbent of methanol "lithium chloride in mesoporous silica gel" for adsorption cooling machines: Performance and stability evaluation. Industrial & Engineering Chemistry Research, 48 (13), 6197-6202, 2009	Gordeeva LG, Freni A, Aristov YI, Restuccia G	36
2011 13-2011	PEM fuel cells analysis for grid connected applications. International Journal of Hydrogen Energy, 36 (17), 10908-10916, 2011	Sergi F, Brunaccini G, Stassi A, Di Blasi A, Dispenza G, Aricò AS, Ferraro M, Antonucci V	36
2013 22-2013	Endurance study of a solid polymer electrolyte direct ethanol fuel cell based on a Pt-Sn anode catalyst. International Journal of Hydrogen Energy, 38 (26), pp.11576-11582, 2013	Zignani SC, Baglio V, Linares JJ, Monforte G, Gonzalez ER, Aricò AS	36

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2013 25-2013	Preparation and characterisation of Ti oxide based catalyst supports for low temperature fuel cells. <i>International Journal of Hydrogen Energy</i> , 38 (26), pp.11600-11608, 2013	Siracusano S, Stassi A, Modica E, Baglio V, Aricò AS	36
2015 10-2015	Batch reactor coupled with water permselective membrane: Study of glycerol etherification reaction with butanol. <i>Chemical Engineering Journal</i> , 282, pp.187-193, 2015	Cannilla C, Bonura G, Frusteri L, Frusteri F	36
2017 41-2017	The role of gadolinia doped ceria support on the promotion of CO ₂ methanation over Ni and Ni-Fe catalysts. <i>International Journal of Hydrogen Energy</i> , 42 (43), pp.26828-26842, 2017	Frontera P, Macario A, Monforte G, Bonura G, Ferraro M, Dispenza G, Antonucci V, Aricò AS, Antonucci PL	36
2018 27-2018	Synthesis of reusable silicone foam containing carbon nanotubes for oil spill remediation. <i>Journal of Applied Polymer Science</i> , 135 (14), art. no. 46067, 2018	Piperopoulos E, Calabrese L, Mastronardo E, Proverbio E, Milone C	36
2019 42-2019	Assessment of sorption kinetics of carbon nanotube-based composite foams for oil recovery application. <i>Journal of Applied Polymer Science</i> , 136 (14), art. no. 47374, 2019	Piperopoulos E, Calabrese L, Mastronardo E, Abdul Rahim SH, Proverbio E, Milone C	36
2020 25-2020	Long term durability of solid-state supercapacitor based on reduced graphene oxide aerogel and carbon nanotubes composite electrodes. <i>Electrochimica Acta</i> , 353, art. no. 136540, 2020	Okhay O, Tkach A, Staiti P, Lufrano F	36
2021 4-2021	Inside the reaction mechanism of direct CO ₂ conversion to DME over zeolite-based hybrid catalysts. <i>Applied Catalysis B: Environmental</i> , 294, art. no. 120255, 2021	Bonura G, Todaro S, Frusteri L, Majchrzak-Kućęba I, Wawrzyńczak D, Pászti Z, Tálas E, Tompos A, Ferenc L, Solt H, Cannilla C, Frusteri F	36
2009 9-2009	Demonstration and development of a polymer electrolyte fuel cell system for residential use. <i>Journal of Power Sources</i> , 193, 342-348, 2009	Ferraro M, Sergi F, Brunaccini G, Dispenza G, Andaloro L, Antonucci V	35
2015 35-2015	Investigation of supported Pd-based electrocatalysts for the oxygen reduction reaction: Performance, durability and methanol tolerance. <i>Materials</i> , 8 (12), pp.7997-8008, 2015	Lo Vecchio C, Alegre C, Sebastián D, Stassi A, Aricò AS, Baglio V	35
2016 1-2016	A one-step synthesis of C ₆ sugar alcohols from levoglucosan and disaccharides using a Ru/CMK-3 catalyst. <i>ACS Catalysis</i> , 6 (7), pp.4411-4422, 2016	Yin W, Tang Z, Venderbosch RH, Zhang Z, Cannilla C, Bonura G, Frusteri F, Heeres HJ	35
2018 12-2018	Methanol-tolerant M-N-C catalysts for oxygen reduction reactions in acidic media and their application in direct methanol fuel cells. <i>Catalysts</i> , 8 (12), art. no. 650, 2018	Lo Vecchio C, Sebastián D, Lázaro MJ, Aricò AS, Baglio V	35
37-2018	In situ FT-IR characterization of CuZnZr/ferrierite hybrid catalysts for one-pot CO ₂ -to-DME conversion. <i>Materials</i> , 11 (11), art. no. 2275, 2018	Miletto I, Catizzone E, Bonura G, Ivaldi C, Migliori M, Gianotti E, Marchese L, Frusteri F, Giordano G	35
41-2018	Adsorption performance and thermodynamic analysis of SAPO-34 silicone composite foams for adsorption heat pump applications. <i>Materials for Renewable and Sustainable Energy</i> , 7 (4), art. no. 24, 2018	Calabrese L, Bonaccorsi L, Bruzzaniti P, Frazzica A, Freni A, Proverbio E	35
2019 23-2019	Comparative analysis of thermal energy storage technologies through the definition of suitable key performance indicators. <i>Energy and Buildings</i> , 185, pp.88-102, 2019	Palomba V, Frazzica A	35
6-2019	High performance solid-state iron-air rechargeable ceramic battery operating at intermediate temperatures (500–650 °C). <i>Applied Energy</i> , 233-234, pp.386-394, 2019	Trocino S, Lo Faro M, Zignani SC, Antonucci V, Aricò AS	35
2020 37-2020	Barrier properties of sulfonated polysulfone/layered double hydroxides nanocomposite membrane for direct methanol fuel cell operating at high methanol concentrations. <i>International Journal of Hydrogen Energy</i> , 45 (40), pp.20647-20658, 2020	Lufrano E, Simari C, Lo Vecchio C, Aricò AS, Baglio V, Nicotera I	35

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2020 69-2020	Sulfonated polyethersulfone/polyetheretherketone blend as high performing and cost-effective electrolyte membrane for direct methanol fuel cells. <i>Renewable Energy</i> , 159, pp.336-345, 2020	Simari C, Lo Vecchio C, Baglio V, Nicotera I	35
2021 48-2021	A size-dependent financial evaluation of green hydrogen-oxygen co-production. <i>Renewable Energy</i> , 163, pp.2165-2177, 2021	Squadrito G, Nicita A, Maggio G	35
50-2021	Microwave chloride leaching of valuable elements from spent automotive catalysts: Understanding the role of hydrogen peroxide. <i>Resources, Conservation & Recycling</i> , 166, art. no.	Abo Atia T, Wouters W, Monforte G, Spooen J	35
1992 74	Alkali effect on the MCFC-internal reforming catalyst life. <i>International Journal of Hydrogen Energy</i> , 17 (3), 181-186, 1992	Cavallaro S, Freni S, Cannistraci R, Aquino M, Giordano N	34
2011 32-2011	Influence of silica morphology in composite Nafion membranes properties. <i>International Journal of Hydrogen Energy</i> , 36 (22), 14725-14733, 2011	Alvarez A, Guzmán C, Carbone A, Saccà A, Gatto I, Passalacqua E, Nava R, Ornelas R, Ledesma-Garcia J, Arriaga LG	34
2012 29-2012	Effects of manufacturing procedure on unsymmetrical sandwich structures under static load conditions. <i>Materials and Design</i> , 35, pp.457-466, 2012	Di Bella G, Borsellino C, Calabrese L	34
2014 20-2014	Composite anode electrode based on iridium oxide promoter for direct methanol fuel cells. <i>Electrochimica Acta</i> , 128, pp.304-310, 2014	Baglio V, Sebastián D, D'Urso C, Stassi A, Amin RS, El-Khatib KM, Aricò AS	34
2016 21-2016	Enhancing ethanol oxidation rate at PtRu electro-catalysts using metal-oxide additives. <i>Electrochimica Acta</i> , 191, pp.183-191, 2016	Zignani SC, Baglio V, Sebastián D, Siracusano S, Aricò AS	34
2019 3-2019	Flammability reduction in a pressurised water electrolyser based on a thin polymer electrolyte membrane through a Pt-alloy catalytic approach. <i>Applied Catalysis B: Environmental</i> , 246, pp.254-265, 2019	Briguglio N, Siracusano S, Bonura G, Sebastián D, Aricò AS	34
33-2019	Enhanced coke suppression by using phosphate-zirconia supported nickel catalysts under dry methane reforming conditions. <i>International Journal of Hydrogen Energy</i> , 44 (51), pp.27784-27794, 2019	Ibrahim AA, Al-Fatesh AS, Khan WU, Kasim SO, Abasaeed AE, Fakeeha AH, Bonura G, Frusteri F	34
53-2019	Hydrodeoxygenation of raw bio-oil towards platform chemicals over FeMoP/zeolite catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 80, pp.392-400, 2019	Hita I, Cordero-Lanzac T, Bonura G, Cannilla C, Arandes JM, Frusteri F, Bilbao J	34
2020 51-2020	Advances in hybrid composite membranes engineering for high-performance direct methanol fuel cells by alignment of 2D nanostructures and a dual-layer approach. <i>Journal of Membrane Science</i> , 599, art. no. 117858, 2020	Simari C, Enotiadis A, Lo Vecchio C, Baglio V, Coppola L, Nicotera I	34
2004 26-2004	CO clean-up transient device integrated to a preferential oxidation reactor for PEFC electric vehicles. <i>Fuel Processing Technology</i> , 85 (13), 1445-1452, 2004	Recupero V, Pino L, Cordaro Mn, Vita A, Cipiti F, Laganà M	33
2007 5-2007	Sorption equilibrium of methanol on new composite sorbents "CaCl ₂ /silica gel". <i>Adsorption</i> , vol.13, pp.121-127, 2007	Aristov YI, Gordeeva LG, Pankratiev YD, Plyasova L, Bikova I, Freni A, Restuccia G	33
2013 23-2013	Elaboration and characterization of hybrid polymer electrolytes Nafion-TiO ₂ for PEMFCs. <i>International Journal of Hydrogen Energy</i> , 38 (26), pp.11583-11590, 2013	Hammami R, Ahamed Z, Charradi K, Beji Z, Ben Assaker I, Ben Naceur J, Auvity B, Squadrito G, Chtourou R	33
2014 17-2014	Synthesis of Pd ₃ Co ₁ @Pt/C core-shell catalysts for methanol-tolerant cathodes of direct methanol fuel cells. <i>Chemistry - A European Journal</i> , 20 (34), pp.10679-10684, 2014	Aricò AS, Stassi A, D'Urso C, Sebastián D, Baglio V	33
4-2014	A mechanistic assessment of the wet air oxidation activity of MnCeO _x catalyst toward toxic and refractory organic pollutants. <i>Applied Catalysis B: Environmental</i> , 144 (1), pp.292-299, 2014	Arena F, Italiano C, Drago Ferrante G, Trunfio G, Spadaro	33

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2014 51-2014	Oxidized carbon nanofibers supporting PtRu nanoparticles for direct methanol fuel cells. International Journal of Hydrogen Energy, 39 (10), pp.5414-5423, 2014	Sebastián D, Lázaro MJ, Moliner R, Suelves I, Aricò AS, Baglio V	33
2015 11-2015	Ni-Cu based catalysts prepared by two different methods and their catalytic activity toward the ATR of methane. Chemical Engineering Research and Design, 93, pp.269-277, 2015	Lo Faro M, Frontera P, Antonucci PL, Aricò AS	33
2016 23-2016	Thermoelectric characterization of an intermediate temperature solid oxide fuel cell system directly fed by dry biogas. Energy Conversion and Management, 127, pp.90-102, 2016	De Lorenzo G, Corigliano O, Lo Faro M, Frontera P, Antonucci PL, Zignani SC, Trocino S, Mirandola FA, Aricò AS, Fragiaco P	33
2018 45-2018	Effect of plasma treatment on mechanical and thermal properties of marble powder/epoxy composites. Polymer Composites, 39 (2), pp.309-317, 2018	Fiore V, Di Bella G, Scalici T, Valenza A	33
2019 18-2019	Performance and stability of counter electrodes based on reduced few-layer graphene oxide sheets and reduced graphene oxide quantum dots for dye-sensitized solar cells. Electrochimica Acta, 306, pp.396-406, 2019	Torres D, Sebastián D, Lázaro MJ, Pinilla JL, Suelves I, Aricò AS, Baglio V	33
19-2019	New insights on the co-electrolysis of CO ₂ and H ₂ O through a solid oxide electrolyser operating at intermediate temperatures. Electrochimica Acta, 296, pp.458-464, 2019	Lo Faro M, Zignani SC, Trocino S, Antonucci V, Aricò AS	33
62-2019	Magnesium sulphate-silicone foam composites for thermochemical energy storage: Assessment of dehydration behaviour and mechanical stability. Solar Energy Materials and Solar Cells, 200, art. no. 109992, 2019	Calabrese L, Brancato V, Palomba V, Frazzica A, Cabeza LF	33
64-2019	Water adsorption equilibrium and dynamics of LICI/MWCNT/PVA composite for adsorptive heat storage. Solar Energy Materials and Solar Cells, 193, pp.133-140, 2019	Brancato V, Gordeeva LG, Grekova AD, Sapienza A, Vasta S, Frazzica A, Aristov YI	33
2020 27-2020	Experimentally measured thermal masses of adsorption heat exchangers. Energies, 13 (5), art. no. 1150, 2020	Gluesenkamp KR, Frazzica A, Velte A, Metcalf S, Yang Z, Rouhani M, Blackman C, Qu M, Laurenz E, Rivero-Pacho A, Hinners S, Critoph RE, Bahrami M, Földner G, Hallin I	33
1984 p11-1984	A TPR and TPO study of bimetallic Ru-Au catalysts. Journal of Molecular Catalysis, 25 (1-3), 357-366, 1984	Tauszik GR, Leofanti G, Galvagno S	32
1992 83	Interaction pathway of chloride ions with γ -Al ₂ O ₃ : surface acidity and thermal stability of the Cl/ γ -Al ₂ O ₃ system. Journal of the Chemical Society, Faraday Transactions, 88 (22), 3353-3356,	Arena F, Frusteri F, Mondello N, Giordano N, Parmaliana A	32
1997 189	Carbon monoxide electro-oxidation on porous Pt-Ru electrodes in sulphuric acid. Journal of Applied Electrochemistry, Vol. 27, pp.1275-1282, 1997	Aricò AS, Modica E, Passalacqua E, Antonucci V, Antonucci PL	32
2008 7-2008	Investigation on composite S-PEEK/H-BETA MEAs for medium temperature PEFC. International Journal of Hydrogen Energy, 33, 3153-3158, 2008	Carbone A, Saccà A, Gatto I, Pedicini R, Passalacqua E	32
2011 17-2011	Hydrogen storage based on polymeric material. International Journal of Hydrogen Energy, 36 (15), 9062-9068, 2011	Pedicini R, Saccà A, Carbone A, Passalacqua E	32
2012 31-2012	Design of efficient methanol impermeable membranes for fuel cell applications. Physical Chemistry Chemical Physics, 14 (8), 2718-2726, 2012	Lufrano F, Baglio V, Di Blasi O, Staiti P, Antonucci V, Aricò AS	32
2013 46-2013	Experimental characterization of diesel combustion using glycerol derived ethers mixtures. SAE International Journal of Fuels and Lubricants, 6 (3), pp.940-950, 2013	Di Blasio G, Bonura G, Frusteri F, Beatrice C, Cannilla C, Viscardi M	32

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2013 5-2013	Carbon growth evidences as a result of benzene pyrolysis. Carbon, 59, pp.296-307, 2013	Frusteri L, Cannilla C, Barbera K, Perathoner S, Centi G, Frusteri F	32
2015 16-2015	Optimization of perfluorosulphonic ionomer amount in gas diffusion electrodes for PEMFC operation under automotive conditions. Electrochimica Acta, 165, pp.450-455, 2015	Gatto I, Stassi A, Baglio V, Carbone A, Passalacqua E, Aricò AS, Schuster M, Bauer B	32
47-2015	Methanol and proton transport in layered double hydroxide and smectite clay-based composites: influence on the electrochemical behavior of direct methanol fuel cells at intermediate temperatures. Journal of Solid State Electrochemistry, 19 (7),	Nicotera I, Kosma V, Simari C, D'Urso C, Aricò AS, Baglio V	32
2016 30-2016	Improvement in the performance of low temperature H ₂ -O ₂ fuel cell with chitosan-phosphotungstic acid composite membranes. International Journal of Hydrogen Energy, 41 (11), pp.5389-5395, 2016	Santamaria M, Pecoraro CM, Di Franco F, Di Quarto F, Gatto I, Saccà A	32
32-2016	Investigation of PtNi/C as methanol tolerant electrocatalyst for the oxygen reduction reaction. Journal of Electroanalytical Chemistry, 763, pp.10-17, 2016	Zignani SC, Baglio V, Sebastián D, de Araújo Rocha T, Gonzalez ER, Aricò AS	32
38-2016	Block co-polymer templated mesoporous carbon-Nafion hybrid membranes for polymer electrolyte fuel cells under reduced relative humidity. Journal of Membrane Science, 499, pp.503-514,	Sasikala S, Selvaganesh SV, Sahu AK, Carbone A, Passalacqua E	32
2017 44-2017	Study and design of a hybrid electric vehicle (Lithium Batteries-PEM FC). International Journal of Hydrogen Energy, 42 (5), pp.3166-3184, 2017	Andaloro L, Arista A, Agnello G, Napoli G, Sergi F, Antonucci V	32
52-2017	N-doped carbon xerogels as Pt support for the electro-reduction of oxygen. Materials, 10 (9), art. no. 1092, 2017	Alegre C, Sebastián D, Gálvez ME, Baquedano E, Moliner R, Aricò AS, Baglio V, Lázaro MJ	32
2019 5-2019	2 kW Modular PEM fuel cell stack for space applications: Development and test for operation under relevant conditions. Applied Energy, 242, pp.1683-1696, 2019	Giacoppo G, Hovland S, Barbera O	32
2021 13-2021	A CCHP system based on ORC cogenerator and adsorption chiller experimental prototypes: Energy and economic analysis for NZEB applications. Applied Thermal Engineering, 183, art. no. 116119, 2021	Lombardo W, Sapienza A, Ottaviano S, Branchini L, De Pascale A, Vasta S	32
1982 p7-1982	Structure and photoelectrochemical efficiency of oxidized titanium electrodes. International Journal of Hydrogen Energy, 7 (10), 769-774, 1982	Antonucci V, Giordano N, Bart JCJ	31
1986 p9-1986	The microstructure of bimetallic Ru-Cu/SiO ₂ catalysts: a chemisorption and analytical electron microscopy study. Journal of Catalysis, 100 (2), 446-457, 1986	Shastri AG, Schwank J, Galvagno S	31
1990 37	Theoretical performance of an absorption heat pump using ammonia-water-potassium hydroxide solution. Heat Recovery Systems & CHP, 10 (3), 177-185, 1990	Cacciola G, Restuccia G, Rizzo G	31
1997 200	Heat capacity and heat conductivity of aqueous solutions of calcium chloride in silica gel pores. Russian Journal of Physical Chemistry A, 71 (3), 327-330 (pp.395-398 nella versione in russo su "Zhurnal Fizicheskoi Khimii"; spesso citate erroneamente come 391-394), 1997	Aristov YI, Tokarev MM, Cacciola G, Restuccia G	31
1998 208	The dissolution process of the NiO cathodes for molten carbonate fuel cell: State-of-the-art. International Journal of Energy Research, Vol. 22, pp.17-31, 1998	Freni S, Barone F, Puglisi M	31
2011 25-2011	Composite membranes based on micro and mesostructured silica: A comparison of physicochemical and transport properties. Journal of Power Sources, 196 (13), 5394-5401, 2011	Alvarez A, Guzmán C, Carbone A, Saccà A, Gatto I, Pedicini R, Passalacqua E, Nava R, Ornelas R, Ledesma-García J, Arriaga LG	31

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2011 33-2011	Modelling and control of a residential wind/PV/battery hybrid power system with performance analysis. Journal of Applied Sciences, 11 (22), 3663-3676, 2011	Yasin A, Napoli G, Ferraro M, Antonucci V	31
2014 29-2014	Metal oxide promoters for methanol electro-oxidation. International Journal of Hydrogen Energy, 39 (18), pp.9782-9790,	Amin RS, El-Khatib KM, Siracusano S, Baglio V, Stassi A, Aricò AS	31
2017 23-2017	Study of sorption systems for application on low-emission fishing vessels. Energy, 134, pp.554-565, 2017	Palomba V, Aprile M, Motta M, Vasta S	31
42-2017	Low cost iodine doped graphene for fuel cell electrodes. International Journal of Hydrogen Energy, 42 (43), pp.26877-26888, 2017	Marinoiu AT, Gatto I, Raceanu M, Varlam M, Moise C, Pantazi A, Jianu C, Stefanescu I, Enachescu M	31
54-2017	Carbon-supported Pd and PdFe alloy catalysts for direct methanol fuel cell cathodes. Materials, 10 (12), art. no. 580, 2017	Rivera Gavidia LM, Sebastián D, Pastor E, Aricò AS, Baglio V	31
75-2017	Reduced methanol crossover and enhanced proton transport in nanocomposite membranes based on clay-CNTs hybrid materials for direct methanol fuel cells. Ionics, 23 (8), pp.2113-2123, 2017	Simari C, Baglio V, Lo Vecchio C, Aricò AS, Agostino RG, Coppola L, Oliviero Rossi C, Nicotera I	31
2019 39-2019	Syngas production by BFB gasification: Experimental comparison of different biomasses. International Journal of Hydrogen Energy, 44 (9), pp.4414-4422, 2019	Maisano S, Urbani F, Cipiti F, Freni F, Chiodo V	31
2020 57-2020	Toward more efficient and stable bifunctional electrocatalysts for oxygen electrodes using FeCo ₂ O ₄ /carbon nanofiber prepared by electrospinning. Materials Today Energy, 18, art. no. 100508, 2020	Alegre C, Busacca C, Di Blasi A, Di Blasi O, Aricò AS, Antonucci V, Baglio V	31
72-2020	Implementation of a solar-biomass system for multi-family houses: Towards 100% renewable energy utilization. Renewable Energy, 166, pp.190-209, 2020	Palomba V, Borri E, Charalampidis A, Frazzica A, Cabeza LF, Karellas S	31
1983 p13-1983	A kinetic study of the hydrogenation of benzene over monolithic-supported platinum catalyst. Applied Catalysis, 7 (2), pp.221-232, 1983	Parmaliana A, El Sawi M, Mento G, Fedele U, Giordano N	30
1993 106	XRD characterization of highly dispersed metal catalysts on carbon support. Journal of Materials Research, 8 (8), 1829-1835,	Scardi P, Antonucci PL	30
1995 146	On the nature of active sites of silica based oxide catalysts in the partial oxidation of methane to formaldehyde. Catalysis Today, Vol. 24, pp.231-236, 1995	Parmaliana A, Arena F, Frusteri F, Miceli D, Sokolovskii VD	30
2005 6-2005	Electrochemical analysis of high temperature methanol electro-oxidation at Pt-decorated Ru catalysts. Journal of Electroanalytical Chemistry, vol.576, pp.161-169, 2005	Aricò AS, Baglio V, Di Blasi A, Modica E, Monforte G, Antonucci V	30
2007 27-2007	One-pot synthesis of nauranol from α -pinene oxide on bifunctional Pt-Sn/SiO ₂ heterogeneous catalysts. Part I: The catalytic system. Applied Catalysis A: General, 325 (1), 15-24, 2007	Neri Gv, Rizzo G, Aricò AS, Crisafulli C, De Luca L, Donato A, Musolino MG, Pietropaolo R	30
2010 12-2010	Investigation of sulfonated polysulfone membranes as electrolyte in a passive-mode direct methanol fuel cell mini-stack. Journal of Power Sources, 195 (23), 7727-7733, 2010	Lufrano F, Baglio V, Staiti P, Stassi A, Aricò AS, Antonucci V	30
27-2010	Structured reactors as alternative to pellets catalyst for propane oxidative steam reforming. International Journal of Hydrogen Energy, 35 (18), 9810-9817, 2010	Vita A, Pino L, Cipiti F, Laganà M, Recupero V	30
2012 36-2012	One-pot synthesis of polyaniline/Fe ₃ O ₄ nanocomposites with magnetic and conductive behaviour. Catalytic effect of Fe ₃ O ₄ nanoparticles. Synthetic Metals, 162 (24), 2250-2258, 2012	Della Pina C, Rossi M, Ferretti AM, Ponti A, Lo Faro M, Falletta E	30

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2015 20-2015	Investigation of layered double hydroxide (LDH) Nafion-based nanocomposite membranes for high temperature PEFCs. Energy Conversion and Management, 96, pp.39-46, 2015	Angjeli K, Nicotera I, Baikousi M, Enotiadis A, Gournis D, Saccà A, Passalacqua E, Carbone A	30
2017 34-2017	Production of syngas by solid oxide electrolysis: A case study. International Journal of Hydrogen Energy, 42 (46), pp.27859-27865, 2017	Lo Faro M, Trocino S, Zignani SC, Antonucci V, Aricò AS	30
2019 41-2019	Toward optimization of a robust low-cost sulfonated-polyethersulfone containing layered double hydroxide for PEM fuel cells. Journal of Applied Polymer Science, 136 (34), art. no. 47884, 2019	Simari C, Lo Vecchio C, Enotiadis A, Davoli M, Baglio V, Nicotera I	30
2021 5-2021	Experimental characterization of an innovative hybrid thermal-electric chiller for industrial cooling and refrigeration application. Applied Energy, 281, art. no. 116098, 2021	Dino GE, Palomba V, Nowak E, Frazzica A	30
1993 103	Influence of hydrogen-permeable membranes upon the efficiency of the high temperature chemical heat pumps based on cyclohexane dehydrogenation-benzene hydrogenation reactions. International Journal of Hydrogen Energy, 18 (8), 673-680, 1993	Cacciola G, Aristov YI, Restuccia G, Parmon VN	29
1994 120	Solid polymer electrolyte fuel cell (SPEFC) research and development at the Institute CNR-TAE of Messina. International Journal of Hydrogen Energy, 19 (6), 523-527, 1994	Staiti P, Poltarzewski Z, Alderucci V, Maggio G, Giordano N	29
126	Electrical properties in the Bi-rich part of the Bi, Mo/O system. Solid State Ionics, Vol. 74, pp.37-45, 1994	Chiodelli G, Magistris A, Spinolo G, Tomasi C, Antonucci V, Giordano N	29
2006 13-2006	Experimental analysis of a 2 kWe LPG-based fuel processor for polymer electrolyte fuel cells. Journal of Power Sources, vol.157, pp.914-920, 2006	Cipiti F, Recupero V, Pino L, Vita A, Laganà M	29
24-2006	Enhanced stability of catalytic membranes based on a porous thin Pd film on a ceramic support by forming a Pd-Ag interlayer. Catalysis Today, vol. 118, pp.189-197, 2006	Abate S, Centi G, Perathoner S, Frusteri F	29
2007 23-2007	Polymer electrolyte fuel cell mini power unit for portable application. Journal of Power Sources, 169, pp.334-337, 2007	Urbani F, Squadrito G, Barbera O, Giacoppo G, Passalacqua E, Zerbinati O	29
2009 27-2009	Electrochemical behaviour of propane-fed solid oxide fuel cells based on low Ni content anode catalysts. Electrochimica Acta, 54, 5280-5285, 2009	Lo Faro M, La Rosa Dn, Nicotera I, Antonucci V, Aricò	29
2013 19-2013	Electrochemical behaviour of an all-perovskite-based intermediate temperature solid oxide fuel cell. International Journal of Hydrogen Energy, 38 (34), pp.14773-14778, 2013	Lo Faro M, Aricò AS	29
38-2013	Electrospinning of polyaniline: Effect of different raw sources. Journal of Nanoscience and Nanotechnology, 13 (7), pp.4744-4751, 2013	Frontera P, Busacca C, Trocino S, Antonucci PL, Lo Faro M, Falletta E, Della Pina C, Rossi M	29
2016 25-2016	Ni/CeO ₂ -thin ceramic layer depositions on ceramic monoliths for syngas production by Oxy Steam Reforming of biogas. Fuel Processing Technology, 149, pp.40-48, 2016	Balzarotti R, Italiano C, Pino L, Cristiani C, Vita A	29
2019 12-2019	Catalytic behaviour of Ce-doped Ni systems supported on stabilized zirconia under dry reforming conditions. Catalysts, 9 (5), art. no. 473, 2019	Al-Fatesh AS, Arafat Y, Ibrahim AA, Kasim SO, Alharthi AI, Fakeeha AH, Abasaed AE, Bonura G, Frusteri F	29
30-2019	Methane steam reforming on the Pt/CeO ₂ catalyst: Effect of daily start-up and shut-down on long-term stability of the catalyst. Industrial & Engineering Chemistry Research, 58 (36), pp.16395-16406, 2019	Amjad U-E-S, Quintero CWM, Ercolino G, Italiano C, Vita A, Specchia S	29

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2022 42-2022	Promotional effect of addition of ceria over yttria-zirconia supported Ni based catalyst system for hydrogen production through dry reforming of methane. International Journal of Hydrogen Energy, 47 (48), pp.20838-20850, 2022	Chaudhary ML, Al-Fatesh AS, Kumar R, Lanre MS, Frusteri F, AlReshaidan SB, Ibrahim AA, Abasaheed AE, Fakeeha AH	29
1981 p1-1981	Catalytic activity of honeycomb catalysts. 1. The benzene-cyclohexane (de)hydrogenation reaction. Reaction Kinetics and Catalysis Letters, 18 (3-4), 295-299, 1981	Parmaliana A, Crisafulli C, Maggiore R, Bart JCJ, Giordano N	28
1984 p4-1984	Studies on zeolites in agriculture. Effect on crop growth of Prunus persica and Vitis vinifera. Zeolites, 4 (4), 373-376, 1984	Burriesci N, Valente S, Zipelli C, Bart JCJ	28
1987 5	Chemical heat pump using heat of reversible catalytic reactions. International Journal of Energy Research, 11 (4), 519-529, 1987	Cacciola G, Anikeev V, Recupero V, Kirillov V, Parmon VN	28
1992 87	Intensification of hydrogen production via methane reforming and the optimization of H ₂ :CO ratio in a catalytic reactor with a hydrogen-permeable membrane wall. International Journal of Hydrogen Energy, 17 (4), 275-279, 1992	Prokopiev SI, Aristov YI, Parmon VN, Giordano N	28
1997 188	Influence of annealing temperature on the opto-electronic characteristics of ZnTe electrodeposited semiconductors. Materials Chemistry and Physics, 51 (2), 130-134, 1997	Kashyout AB, Aricò AS, Antonucci PL, Mohamed FA, Antonucci V	28
1998 219	Physico-chemical characteristics of phosphotungstic acid solutions and electrolyte evaluation for application in fuel cells. Journal of New Materials for Electrochemical Systems, 1 (1), 1-6, 1998	Staiti P, Aricò AS, Hočevsar S, Antonucci V	28
227	High yields in the catalytic partial oxidation of natural gas to formaldehyde: catalyst development and reactor configuration. Studies in Surface Science and Catalysis, Vol. 119, pp.551-556, 1998	Parmaliana A, Arena F, Frusteri F, Mezzapica A	28
234	The properties of the lithium bromide-water system in silica gel pores. Russian Journal of Physical Chemistry A, 72 (7), 1106-1109 (pp.1236-1240 nella versione in russo su "Zhurnal Fizicheskoi Khimii"), 1998	Gordeeva LG, Restuccia G, Cacciola G, Aristov YI	28
2000 261	Selective oxidation of propane on a Nafion-based catalytic membrane mediated by Fe(II)-H ₂ O ₂ Fenton system. Journal of Molecular Catalysis A: Chemical, 159 (2), 359-364, 2000	Espro C, Frusteri F, Arena F, Parmaliana A	28
2008 10-2008	Optimization of a solar-powered adsorptive ice-maker by a mathematical method. Solar Energy, 82, 965-976, 2008	Freni A, Maggio G, Vasta S, Santori G, Polonara F, Restuccia G	28
2010 1-2010	Investigation of a Pt-Fe/C catalyst for oxygen reduction reaction in direct ethanol fuel cells. Journal of Nanoparticle Research, 12 (1), 357-365, 2010	Castro Luna AM, Bonesi A, Triaca WE, Di Blasi A, Stassi A, Baglio V, Antonucci V, Aricò AS	28
16-2010	Design and development of a 7kW polymer electrolyte membrane fuel cell stack for UPS application. International Journal of Hydrogen Energy, 35 (18), 9983-9989, 2010	Squadrito G, Giacoppo G, Barbera O, Urbani F, Passalacqua E, Borello L, Musso A, Rosso I	28
4-2010	Comparison between Ni-Rh/gadolinia doped ceria catalysts in reforming of propane for anode implementations in intermediate solid oxide fuel cells. Journal of Power Sources, 195 (2), 649-661, 2010	Boaro M, Modafferi V, Pappacena A, Llorca J, Baglio V, Frusteri F, Frontera P, Trovarelli A, Antonucci PL	28
2013 42-2013	Investigation of Pd-based electrocatalysts for oxygen reduction in PEMFCs operating under automotive conditions. Journal of Power Sources, 222, pp.390-399, 2013	Stassi A, Gatto I, Baglio V, Passalacqua E, Aricò AS	28
2015 3-2015	Nanostructured MnO _x catalysts in the liquid phase selective oxidation of benzyl alcohol with oxygen. Part II: Reaction mechanism, kinetics and deactivation pattern. Applied Catalysis B: Environmental, 170-171, pp.233-240, 2015	Arena F, Gumina B, Cannilla C, Spadaro L, Patti AF, Spiccia L	28

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2015 9-2015	Graphene-supported substoichiometric sodium tantalate as a methanol-tolerant, non-noble-metal catalyst for the electroreduction of oxygen. ChemCatChem, 7 (6), pp.911-915, 2015	Sebastián D, Baglio V, Sun S, Tavares AC, Aricò AS	28
2016 37-2016	A high-performance, bifunctional oxygen electrode catalysed with palladium and nickel-iron hexacyanoferrate. Electrochimica Acta, 206, pp.127-133, 2016	McKerracher RD, Figueredo-Rodriguez HA, Ponce de León C, Alegre C, Baglio V, Aricò AS, Walsh FC	28
9-2016	Dynamics study of ethanol adsorption on microporous activated carbon for adsorptive cooling applications. Applied Thermal Engineering, 105, pp.28-38, 2016	Brancato V, Gordeeva LG, Sapienza A, Freni A, Frazzica A	28
2018 5-2018	Biofuels production by esterification of oleic acid with ethanol using a membrane assisted reactor in vapour permeation configuration. Applied Catalysis A: General, 566, pp.121-129, 2018	Cannilla C, Bonura G, Costa F, Frusteri F	28
2019 22-2019	Hybrid adsorption-compression systems for air conditioning in efficient buildings: Design through validated dynamic models. Energies, 12 (6), art. no. 1161, 2019	Palomba V, Varvagiannis E, Karellas S, Frazzica A	28
46-2019	Optimal allocation of electric vehicle charging stations in a highway network: Part 2. The Italian case study. Journal of Energy Storage, 26, art. no. 101015, 2019	Napoli G, Polimeni A, Micari S, Dispenza G, Antonucci V	28
2020 46-2020	Energy storage of supercapacitor electrodes on carbon cloth enhanced by graphene oxide aerogel reducing conditions. Journal of Energy Storage, 32, art. no. 101839, 2020	Okhay O, Tkach A, Gallo MJH, Otero-Irurueta G, Mikhalev S, Staiti P, Lufrano F	28
1985 p9-1985	Temperature-programmed reduction. Metal-support interaction on supported monometallic Ru and Cu catalysts. Journal of Thermal Analysis, 30 (3), 611-618, 1985	Galvagno S, Crisafulli C, Maggiore R, Tauszik GR, Giannetto A	27
1993 94	High-temperature chemical heat pump based on reversible catalytic reactions of cyclohexane dehydrogenation/benzene hydrogenation: Comparison of the potentialities of different flow diagrams. International Journal of Energy Research, Vol. 17,	Aristov YI, Parmon VN, Cacciola G, Giordano N	27
1996 163	Partial oxidation of methane in solid oxide fuel cells: an experimental evaluation. Journal of Power Sources, 62, pp.95-99, 1996	Antonucci V, Antonucci PL, Aricò AS, Giordano N	27
1999 241	Direct methanol fuel cells for mobile applications: A strategy for the future. Fuel Cells Bulletin, n.7, pp.6-8, 1999	Antonucci V	27
2000 274	Adsorption properties of the lithium bromide-water system in pores of extended graphite, sibunit, and alumina [sic]. Russian Journal of Physical Chemistry A, 74 (12), 2016-2020 (pp.2211-2215 nella versione in russo su "Zhurnal Fizicheskoi Khimii"), 2000	Gordeeva LG, Restuccia G, Tokarev MM, Cacciola G, Aristov YI	27
2008 35-2008	Performance of a 5 kW fuel processor for polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 33 (12), 3197-3203, 2008	Cipiti F, Pino L, Vita A, Laganà M, Recupero V	27
2012 30-2012	NMR and electrochemical investigation of the transport properties of methanol and water in Nafion and clay-nanocomposites membranes for DMFCs. Membranes, 2 (2), 325-345, 2012	Nicotera I, Angjeli K, Coppola L, Aricò AS, Baglio V	27
33-2012	A dynamic multi-level model for adsorptive solar cooling. Renewable Energy, 43, pp.301-312, 2012	Santori G, Sapienza A, Freni A	27
2017 16-2017	A simplified approach for modelling latent heat storages: Application and validation on two different fin-and-tubes heat exchangers. Applied Thermal Engineering, 125, pp.41-52, 2017	Neumann H, Palomba V, Frazzica A, Seiler D, Wittstadt U, Gschwander S, Restuccia G	27
53-2017	Towards highly performing and stable PtNi catalysts in polymer electrolyte fuel cells for automotive application. Materials, 10 (3), art. no. 317, 2017	Zignani SC, Baglio V, Sebastián D, Saccà A, Gatto I, Aricò AS	27

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2018 32-2018	Biochar from byproduct to high value added material – A new adsorbent for toxic metal ions removal from aqueous solutions. <i>Journal of Molecular Liquids</i> , 271, pp.481-489, 2018	Cataldo S, Chiodo V, Crea F, Maisano S, Milea D, Pettignano A	27
1994 123	Analysis of the surface acid-base characteristics of Pt/C catalysts for phosphoric acid fuel cells. <i>Applied Catalysis A: General</i> , 114 (2), 257-272, 1994	Torre T, Aricò AS, Alderucci V, Antonucci V, Giordano N	26
1997 178	Energy balance of different internal reforming MCFC configurations. <i>International Journal of Energy Research</i> , 21 (3), 253-264, 1997	Freni S, Maggio G	26
2006 30-2006	Activity pattern of low-loaded FeO _x /SiO ₂ catalysts in the selective oxidation of C ₁ and C ₃ alkanes with oxygen. <i>Catalysis Today</i> , 117, 75-79, 2006	Arena F, Gatti G, Martra G, Coluccia S, Frusteri F, Spadaro L, Parmaliana A	26
2008 14-2008	PEO-PPO-PEO triblock copolymer/Nafion blend as membrane material for intermediate temperature DMFCs. <i>Journal of Applied Electrochemistry</i> , 38, 543-550, 2008	Hu J, Baglio V, Tricoli V, Aricò AS, Antonucci V	26
2010 9-2010	Performance comparison of portable direct methanol fuel cell mini-stacks based on a low-cost fluorine-free polymer electrolyte and Nafion membrane. <i>Electrochimica Acta</i> , 55 (20), 6022-6027, 2010	Baglio V, Stassi A, Modica E, Antonucci V, Aricò AS, Caracino P, Ballabio O, Colombo M, Kopnin E	26
2012 25-2012	High energy ultracapacitor based on carbon xerogel electrodes and sodium sulfate electrolyte. <i>Journal of Power Sources</i> , 214, pp.137-141, 2012	Staiti P, Arenillas A, Lufrano F, Menéndez JA	26
8-2012	How surface and textural properties affect the behaviour of Mn-based catalysts during transesterification reaction to produce biodiesel. <i>Catalysis Today</i> , 195 (1), 32-43, 2012	Cannilla C, Bonura G, Arena F, Rombi E, Frusteri F	26
2013 20-2013	1.5 kWe HT-PEFC stack with composite MEA for CHP application. <i>International Journal of Hydrogen Energy</i> , 38 (26), pp.11619-11627, 2013	Giacoppo G, Barbera O, Carbone A, Gatto I, Saccà A, Pedicini R, Passalacqua E	26
2014 41-2014	Development and realization of a hydrogen range extender hybrid city bus. <i>Journal of Power Sources</i> , 250, pp.286-295, 2014	Sergi F, Andaloro L, Napoli G, Randazzo N, Antonucci V	26
50-2014	Nickel-copper/gadolinium-doped ceria (CGO) composite electrocatalyst as a protective layer for a solid-oxide fuel cell anode fed with ethanol. <i>ChemElectroChem</i> , 1 (8), pp.1395-1402, 2014	Lo Faro M, Reis RM, Saglietti GGA, Sato AG, Ticianelli EA, Zignani SC, Aricò AS	26
2015 34-2015	Influence of metal oxide additives on the activity and stability of PtRu/C for methanol electro-oxidation. <i>Journal of the Electrochemical Society</i> , 162 (7), F713-F717, 2015	Sebastián D, Stassi A, Siracusano S, Lo Vecchio C, Aricò AS, Baglio V	26
2016 14-2016	Carbon microspheres preparation, graphitization and surface functionalization for glycerol etherification. <i>Catalysis Today</i> , 277, pp.68-77, 2016	Frusteri L, Cannilla C, Bonura G, Chuvilin AL, Perathoner S, Centi G, Frusteri F	26
27-2016	Performance of 1.5 Nm ³ /h hydrogen generator by steam reforming of n-dodecane for naval applications. <i>International Journal of Hydrogen Energy</i> , 41 (42), pp.19475-19483, 2016	Fabiano C, Italiano C, Vita A, Pino L, Laganà M, Recupero V	26
46-2016	Techno-economic analysis of solar cooling systems for residential buildings in Italy. <i>Journal of Solar Energy Engineering - Transactions of the ASME</i> , 138 (3), 031005, 2016	Vasta S, Palomba V, Frazzica A, Di Bella G, Freni A	26
2018 52-2018	Synthesis and characterization of composite membranes modified with Halloysite nanotubes and phosphotungstic acid for electrochemical hydrogen pumps. <i>Renewable Energy</i> , 122, pp.163-172, 2018	Rico-Zavala A, Gurrola MP, Arriaga LG, Bañuelos JA, Alvarez-Contreras L, Carbone A, Saccà A, Matera FV, Pedicini R, Alvarez A, Ledesma-García J	26
2019 4-2019	Dynamics and useful heat of the discharge stage of adsorptive cycles for long term thermal storage. <i>Applied Energy</i> , 248, pp.299-309, 2019	Palomba V, Sapienza A, Aristov YI	26

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2020 19-2020	Electrocatalysis of oxygen on bifunctional nickel-cobaltite spinel. ChemElectroChem, 7 (1), pp.124-130, 2020	Alegre C, Busacca C, Di Blasi A, Di Blasi O, Aricò AS, Antonucci V, Baglio V	26
28-2020	Performance results of a solar adsorption cooling and heating unit. Energies, 13 (7), art. no. 1630, 2020	Roumpedakis TC, Vasta S, Sapienza A, Kallis G, Karellas S, Wittstadt U, Tanne M, Harborth N, Sonnenfeld U	26
1985 p4-1985	Physico-chemical characterization of perlite of various origins. Materials Letters, 3 (3), 103-110, 1985	Burriesci N, Arcoraci C, Antonucci PL, Polizzotti G	25
1988 15	Identification of zeolites for heat transformer, chemical heat pump and cooling systems. International Journal of Energy Research, 12 (1), 101-111, 1988	Restuccia G, Cacciola G, Quagliata R	25
1993 107	An X-ray photoelectron spectroscopic study on platinised carbons with varying functional-group characteristics. Journal of Electroanalytical Chemistry, 352 (1-2), 337-343, 1993	Shukla AK, Hamnett A, Roy A, Barman SR, Sarma DD, Alderucci V, Pino L, Giordano N	25
1995 140	Electrochemical deposition of ZnFeS thin film semiconductors on tin oxide substrates. Solar Energy Materials and Solar Cells, Vol.37, pp.43-53, 1995	Kashyout AB, Aricò AS, Monforte G, Crea F, Antonucci V, Giordano N	25
2009 12-2009	A half cell study of performance and degradation of oxygen reduction catalysts for application in low temperature fuel cells. Fuel Cells, 9 (3), 201-208, 2009	Stassi A, Modica E, Antonucci V, Aricò AS	25
2011 4-2011	CH ₄ decomposition on Ni and Co thin layer catalysts to produce H ₂ for fuel cell. Catalysis Today, 171 (1), 60-66, 2011	Frusteri F, Italiano G, Espro C, Arena F	25
2012 14-2012	Investigation of a Pt ₃ Sn/C electro-catalyst in a direct ethanol fuel cell operating at low temperatures for portable applications. International Journal of Electrochemical Science, 7 (4), 3155-3166, 2012	Zignani SC, Gonzalez ER, Baglio V, Siracusano S, Aricò AS	25
2015 12-2015	Carbon nanofibers as advanced Pd catalyst supports for the air electrode of alkaline metal-air batteries. ChemPlusChem, 80 (9), pp.1384-1388, 2015	Alegre C, Modica E, Lo Vecchio C, Sebastián D, Lázaro MJ, Aricò AS, Baglio V	25
2017 30-2017	Thermal study of a SOFC system integration in a fuselage of a hybrid electric mini UAV. International Journal of Hydrogen Energy, 42 (46), pp.28022-28033, 2017	Giacoppo G, Barbera O, Briguglio N, Cipiti F, Ferraro M, Brunaccini G, Erdle E, Antonucci V	25
2020 24-2020	High performance electrospun nickel manganite on carbon nanofibers electrode for vanadium redox flow battery. Electrochimica Acta, 355, art. no. 136755, 2020	Busacca C, Di Blasi O, Giacoppo G, Briguglio N, Antonucci V, Di Blasi A	25
3-2020	Durability of a recombination catalyst-based membrane-electrode assembly for electrolysis operation at high current density. Applied Energy, 279, art. no. 115809, 2020	Pantò F, Siracusano S, Briguglio N, Aricò AS	25
44-2020	Zeolite-assisted etherification of glycerol with butanol for biodiesel oxygenated additives production. Journal of Energy Chemistry, 48, pp.136-144, 2020	Cannilla C, Bonura G, Maisano S, Frusteri L, Migliori M, Giordano G, Todaro S, Frusteri F	25
66-2020	Development of polymeric membranes based on quaternized polysulfones for AMFC applications. Polymers, 12 (2), art. no. 283, 2020	Carbone A, Pedicini R, Gatto I, Saccà A, Patti A, Bella G, Cordaro Ms	25
1997 177	Active species and working mechanism of silica supported MoO ₃ and V ₂ O ₅ catalysts in the selective oxidation of light alkanes. Studies in Surface Science and Catalysis, Vol. 110, pp.347-356, 1997	Parmaliana A, Arena F, Frusteri F, Martra G, Coluccia S, Sokolovskii VD	24
1998 214	Morphological variation of platinum catalysts in phosphotungstic acid fuel cell. Journal of Power Sources, 70 (1), 91-101, 1998	Staiti P, Aricò AS, Antonucci V, Hočevár S	24

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2007 7-2007	Synthesis and characterisation of Co-containing SBA-15 catalysts. Journal of Porous Materials, 14, pp.305-313, 2007	Lanzafame P, Perathoner S, Centi G, Frusteri F	24
2009 20-2009	Catalytic decomposition of natural gas for CO _x -free hydrogen production in a structured multilayer reactor. Applied Catalysis A: General, 357, 58-65, 2009	Italiano G, Espro C, Arena F, Frusteri F, Parmaliana A	24
29-2009	Doped Ni thin layer catalysts for catalytic decomposition of natural gas to produce hydrogen. Applied Catalysis A: General, 365, 122-129, 2009	Italiano G, Espro C, Arena F, Parmaliana A, Frusteri F	24
2013 53-2013	Synthesis of SAPO-34/graphite composites for low temperature heat adsorption pumps. Journal of Energy Chemistry, 22 (2), pp.245-250, 2013	Bonaccorsi L, Calabrese L, Proverbio E, Frazzica A, Freni A, Restuccia G, Piperopoulos E, Milone C	24
2016 26-2016	Pd supported on Ti-suboxides as bifunctional catalyst for air electrodes of metal-air batteries. International Journal of Hydrogen Energy, 41 (43), pp.19579-19586, 2016	Alegre C, Modica E, Lo Vecchio C, Siracusano S, Aricò AS, Baglio V	24
2018 26-2018	Zeolite filled siloxane composite foams: Compression property. Journal of Applied Polymer Science, 135 (15), art. no. 46145, 2018	Calabrese L, Bonaccorsi L, Bruzzaniti P, Gulli G, Freni A, Proverbio E	24
2019 56-2019	Lifetime assessment of solid-state hybrid supercapacitors based on cotton fabric electrodes. Journal of Power Sources, 434, art. no. 226735, 2019	Paleo AJ, Staiti P, Rocha AM, Squadrito G, Lufrano F	24
9-2019	Atomistic modelling of water transport and adsorption mechanisms in silicoaluminophosphate for thermal energy storage. Applied Thermal Engineering, 160, art. no. 114075, 2019	Fasano M, Falciani G, Brancato V, Palomba V, Asinari P, Chiavazzo E, Frazzica A	24
2020 47-2020	From uninterruptible power supply to resilient smart micro grid: The case of a battery storage at telecommunication station. Journal of Energy Storage, 28, art. no. 101207, 2020	Ferraro M, Brunaccini G, Sergi F, Aloisio D, Randazzo N, Antonucci V	24
55-2020	Lanthanum ferrites-based exsolved perovskites as fuel-flexible anode for solid oxide fuel cells. Materials, 13 (14), art. no. 3231, 2020	Lo Faro M, Zignani SC, Aricò AS	24
2021 32-2021	One-step synthesis of graphene supported platinum nanoparticles as electrocatalyst for PEM fuel cells. International Journal of Hydrogen Energy, 46 (22), pp.12242-12253, 2021	Marinoui AT, Carcadea E, Saccà A, Carbone A, Sisu C, Dogaru A, Raceanu M, Varlam M	24
1985 p5-1985	Kinetics of acetone hydrogenation over Pt/Al ₂ O ₃ catalyst. Journal of Chemical Technology & Biotechnology, 35A (5), 234-	Rositani F, Galvagno S, Poltarzewski Z, Staiti P, Antonucci PL	23
1987 10	Zeolitization of perlite: a prospective route. Industrial Minerals, 83-95, September, 1987	Giordano N, Recupero V, Pino L, Bart JCI	23
1999 243	Partial oxidation of light paraffins on supported superacid catalytic membranes. Applied Catalysis A: General, 180 (1-2), 325-333,	Frusteri F, Arena F, Bellitto S, Parmaliana A	23
2010 5-2010	Optical and sensing features of TPPS ₄ J-aggregates embedded in Nafion membranes: Influence of casting solvents. Journal of Materials Chemistry, 20 (14), 2882-2886, 2010	Castriciano MA, Carbone A, Saccà A, Donato MG, Micali N, Romeo A, De Luca G, Monsù Scolaro L	23
2012 27-2012	Analysis of biogas reforming process for molten carbonate fuel cells. Journal of Power Sources, 206, pp.215-221, 2012	Chiodo V, Urbani F, Galvagno A, Mondello N, Freni S	23
2014 44-2014	IrO ₂ as a promoter of Pt-Ru for methanol electro-oxidation. Physical Chemistry Chemical Physics, 16 (22), pp.10414-10418,	Baglio V, Amin RS, El-Khatib KM, Siracusano S, D'Urso C, Aricò AS	23
2016 11-2016	Experimental testing of the buoyant functioning of a coil coated with SAPO34 zeolite, designed for solar DEC (Desiccant Evaporative Cooling) systems of buildings with natural ventilation. Applied Thermal Engineering, 103, pp.781-789, 2016	Simonetti M, Gentile V, Fracastoro GV, Freni A, Calabrese L, Chiesa G	23

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2016 28-2016	Molten carbonate fuel cell system fed with biofuels for electricity production. International Journal of Hydrogen Energy, 41 (41), pp.18815-18821, 2016	Chiodo V, Zafarana G, Maisano S, Freni S, Galvagno A, Urbani F	23
2017 32-2017	Fuel cell performance and durability investigation of bimetallic radical scavengers in Aquivion® perfluorosulfonic acid membranes. International Journal of Hydrogen Energy, 42 (46), pp.27987-27994, 2017	D'Urso C, Oldani C, Baglio V, Merlo L, Aricò AS	23
8-2017	Probing the functionality of nanostructured MnCeO _x catalysts in the carbon monoxide oxidation: Part II. Reaction mechanism and kinetic modelling. Applied Catalysis B: Environmental, 218, pp.803-809, 2017	Arena F, Di Chio R, Filiciotto L, Trunfio G, Espro C, Palella A, Patti AF, Spadaro L	23
2018 38-2018	Study of PtO _x /TiO ₂ photocatalysts in the photocatalytic reforming of glycerol: The role of co-catalyst formation. Materials, 11 (10), art. no. 1927, 2018	Majrik K, Pászti Z, Korecz L, Trif L, Domján A, Bonura G, Cannilla C, Frusteri F, Tompos A, Tálas E	23
57-2018	Assessment of the hydration/dehydration behaviour of MgSO ₄ ·7H ₂ O filled cellular foams for sorption storage applications through morphological and thermo-gravimetric analyses. Sustainable Materials and Technologies, 17, e00073,	Calabrese L, Brancato V, Palomba V, Frazzica A, Cabeza LF	23
2019 11-2019	Tailoring of hydrotalcite-derived Cu-based catalysts for CO ₂ hydrogenation to methanol. Catalysts, 9 (12), art. no. 1058, 2019	Frusteri L, Cannilla C, Todaro S, Frusteri F, Bonura G	23
51-2019	Evaluation of hydrogen production cost in different real case studies. Journal of Energy Storage, 24, art. no. 100757, 2019	Dispenza G, Sergi F, Napoli G, Antonucci V, Andaloro L	23
2021 19-2021	Platinum group metal-free Fe-based (Fe-N-C) oxygen reduction electrocatalysts for direct alcohol fuel cells. Current Opinion in Electrochemistry, 29, art. no. 100756, 2021	Berretti E, Longhi M, Atanassov P, Sebastián D, Lo Vecchio C, Baglio V, Serov A, Marchionni A, Vizza F, Santoro C, Lavacchi A	23
55-2021	Freight distribution with electric vehicles: A case study in Sicily. RES, infrastructures and vehicle routing. Transportation Engineering, 3, art. no. 100047, 2021	Napoli G, Micari S, Dispenza G, Andaloro L, Antonucci V, Polimeni A	23
2022 19-2022	Reliability assessment and lifetime prediction of Li-ion batteries for electric vehicles. Electrical Engineering, 104 (1), pp.165-177,	Micari S, Foti S, Testa A, De Caro S, Sergi F, Andaloro L, Aloisio D, Napoli G	23
4-2022	Development and experimental testing of an integrated prototype based on Stirling, ORC and a latent thermal energy storage system for waste heat recovery in naval application. Applied Energy, 311, art. no. 118673, 2022	Catapano F, Frazzica A, Freni A, Manzan M, Micheli D, Palomba V, Sementa P, Vaglieco BM	23
59-2022	Greenhouse gases utilization via catalytic reforming with Sc promoted Ni/SBA-15. Fuel, 330, art. no. 125523, 2022	Al-Fatesh AS, Kasim SO, Ibrahim AA, Osman AI, Abasaeed AE, Atia H, Armbruster U, Frusteri L, bin Jumah A, Mohammed Alanazi Y, Fakeeha AH	23
1985 p1-1985	X-ray scattering structural investigation of Pt and Pt-Sn catalysts supported on nylon. Journal of the Chemical Society, Faraday Transactions 1: Physical Chemistry in Condensed Phases, 81 (2), 321-333, 1985	Cocco G, Enzo S, Galvagno S, Poltarzewski Z, Pietropaolo R	22
1995 144	Ionic conductivity in heteropolyacid-tin mordenite composite electrolytes. Materials Letters, Vol. 24, pp.399-405, 1995	Aricò AS, Antonucci PL, Giordano N, Antonucci V	22
1998 203	Synthesis of methyl formate via two-step methane partial oxidation. Catalysis Today, vol. 46, pp.117-125, 1998	Parmaliana A, Frusteri F, Arena F, Mezzapica A, Sokolovskii VD	22

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2004 9-2004	Composite Nafion membranes based on PWA-zirconia for PEFCs operating at medium temperature. Journal of New Materials for Electrochemical Systems, 7 (1), 1-5, 2004	Carbone A, Casciola M, Cavalaglio S, Costantino U, Ornelas R, Fodale I, Saccà A, Passalacqua E	22
2008 25-2008	Investigation of composite Ni-doped perovskite anode catalyst for electrooxidation of hydrogen in solid oxide fuel cell. International Journal of Hydrogen Energy, 33, 3150-3152, 2008	Brunaccini G, Lo Faro M, La Rosa Dn, Antonucci V, Aricò AS	22
2009 2-2009	Optimisation of carbon nanofiber based electrodes for polymer electrolyte membrane fuel cells prepared by a sedimentation method. Journal of Power Sources, 188 (1), 192-198, 2009	Wallnofer E, Perchthaler M, Hacker V, Squadrito G	22
2011 16-2011	Development of a planar μ DMFC operating at room temperature. International Journal of Hydrogen Energy, 36 (13), 8088-8093,	D'Urso C, Baglio V, Antonucci V, Aricò AS, Specchia S, Icardi UA, Saracco G, Spinella C, D'Arrigo G	22
2013 47-2013	Microstructure, state of water and proton conductivity of sulfonated poly(ether ether ketone). Solid State Ionics, 252, pp.62-	Portale G, Carbone A, Martinelli A, Passalacqua E	22
8-2013	Platinum ruthenium catalysts supported on carbon xerogel for methanol electro-oxidation: Influence of the catalyst synthesis method. ChemCatChem, 5 (12), pp.3770-3780, 2013	Alegre C, Gálvez ME, Moliner R, Baglio V, Stassi A, Aricò AS, Lázaro MJ	22
2015 33-2015	Double filler reinforced ionomers: A new approach to the design of composite membranes for fuel cell applications. Journal of Materials Chemistry A: Materials for energy and sustainability, 3 (46), pp.23530-23538, 2015	Donnadio A, Pica M, Carbone A, Gatto I, Posati T, Mariangeloni G, Casciola M	22
2017 36-2017	Enhanced durability of a cost-effective perovskite-carbon catalyst for the oxygen evolution and reduction reactions in alkaline environment. International Journal of Hydrogen Energy, 42 (46), pp.28063-28069, 2017	Alegre C, Modica E, Rodlert-Bacilieri M, Mornaghini FC, Aricò AS, Baglio V	22
2018 13-2018	Rh/CeO ₂ thin catalytic layer deposition on alumina foams: Catalytic performance and controlling regimes in biogas reforming processes. Catalysts, 8 (10), art. no. 448, 2018	Italiano C, Ashraf MA, Pino L, Quintero CWM, Specchia S, Vita A	22
2019 28-2019	Failure analysis of anti-friction coating for cylinder blocks in axial piston pumps. Engineering Failure Analysis, 104, pp.126-138, 2019	D'Andrea D, Epasto G, Bonanno A, Guglielmino E, Benazzi G	22
44-2019	Increasing the stability of membrane-electrode assemblies based on Aquivion® membranes under automotive fuel cell conditions by using proper catalysts and ionomers. Journal of Electroanalytical Chemistry, 842, pp.59-65, 2019	Gatto I, Carbone A, Saccà A, Passalacqua E, Oldani C, Merlo L, Sebastián D, Aricò AS, Baglio V	22
2021 11-2021	Photocatalytic degradation of methylene blue dye by porous zinc oxide nanofibers prepared via electrospinning: When defects become merits. Applied Surface Science, 557, art. no. 149830, 2021	Pantò F, Dahrouch Z, Saha A, Patané S, Santangelo S, Triolo C	22
23-2021	A review of key performance indicators for building flexibility quantification to support the clean energy transition. Energies, 14 (18), art. no. 5676, 2021	Airò Farulla G, Tumminia G, Sergi F, Aloisio D, Cellura M, Antonucci V, Ferraro M	22
2022 20-2022	Performance and stability of a critical raw materials-free anion exchange membrane electrolysis cell. Electrochimica Acta, 413, art. no. 140078, 2022	Zignani SC, Lo Faro M, Carbone A, Italiano C, Trocino S, Monforte G, Aricò AS	22
1987 14	TPR investigation of bimetallic Ru-Cu samples on SiO ₂ , Al ₂ O ₃ and MgO. Journal of Thermal Analysis, Vol.32, 471-483, 1987	Galvagno S, Crisafulli C, Maggiore R, Giannetto A, Schwank J	21
1989 32	Parameter estimation in the kinetic model of methylcyclohexane dehydrogenation on a Pt-Al ₂ O ₃ catalyst by sequential experiment design. Chemical Engineering Journal, 42, 137-144,	El Sawi M, Infortuna FA, Lignola PG, Parmaliana A, Frusteri F, Giordano N	21
1994 119	Lifetime-limiting factors for a molten carbonate fuel cell. International Journal of Hydrogen Energy, 19 (4), 337-341, 1994	Freni S, Cavallaro S, Aquino M, Ravidà D, Giordano N	21

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2004 28-2004	Comparative study of structural properties of trehalose water solutions by neutron diffraction, synchrotron radiation and simulation. <i>Physica B: Condensed Matter</i> , 350 (1-3 SUPPL. 1), e367-e370, 2004	Cesaro A, Magazù V, Migliardo F, Sussich F, Vadalà M	21
2009 1-2009	Design of a CO preferential oxidation reactor for PEFC systems: A modelling approach. <i>Chemical Engineering Journal</i> , 146, 128-135, 2009	Cipiti F, Recupero V	21
39-2009	An integrated approach to hydrogen economy in Sicilian islands. <i>International Journal of Hydrogen Energy</i> , 34 (16), 7009-7014,	Matera FV, Sapienza C, Andaloro L, Dispenza G, Ferraro M, Antonucci V	21
2013 15-2013	Catalytic behavior of Ni-modified perovskite and doped ceria composite catalyst for the conversion of odorized propane to syngas. <i>Fuel Processing Technology</i> , 113, pp.28-33, 2013	Lo Faro M, Modafferi V, Frontera P, Antonucci PL, Aricò AS	21
27-2013	Evaluation of materials and components degradation of a PEM electrolyzer for marine applications. <i>International Journal of Hydrogen Energy</i> , 38 (18), pp.7612-7615, 2013	Di Blasi A, Andaloro L, Siracusano S, Briguglio N, Brunaccini G, Stassi A, Aricò AS, Antonucci V	21
29-2013	Experimental investigation on a methane fuel processor for polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 38 (5), pp.2387-2397, 2013	Cipiti F, Pino L, Vita A, Laganà M, Recupero V	21
2016 13-2016	Dramatic effect of residual gas on dynamics of isobaric adsorption stage of an adsorptive chiller. <i>Applied Thermal Engineering</i> , 96, pp.385-390, 2016	Sapienza A, Frazzica A, Freni A, Aristov YI	21
2017 38-2017	Multiphysics modeling and optimization of the driving strategy of a light duty fuel cell vehicle. <i>International Journal of Hydrogen Energy</i> , 42 (43), pp.26943-26955, 2017	Olivier J-C, Wasselynck G, Chevalier S, Auvity B, Josset C, Trichet D, Squadrito G, Bernard N	21
2019 24-2019	Thermal performance of a latent thermal energy storage for exploitation of renewables and waste heat: An experimental investigation based on an asymmetric plate heat exchanger. <i>Energy Conversion and Management</i> , 200, art. no. 112121, 2019	Palomba V, Brancato V, Frazzica A	21
2020 11-2020	Kinetic study of the methane dry (CO ₂) reforming reaction over the Ce _{0.70} La _{0.20} Ni _{0.10} O _{2-δ} catalyst. <i>Catalysis Science and Technology</i> , 10 (8), pp.2652-2662, 2020	Pino L, Italiano C, Laganà M, Vita A, Recupero V	21
2021 27-2021	Solar powered adsorption desalination for Northern and Southern Europe. <i>Energy</i> , 232, art. no. 120942, 2021	Olkis C, Al-Hasni S, Brandani S, Vasta S, Santori G	21
1982 p5-1982	Ethane and propane hydrogenolysis on Ru catalysts. <i>Journal of the Chemical Society, Faraday Transactions 1: Physical Chemistry in Condensed Phases</i> , 78 (8), 2509-2520, 1982	Galvagno S, Schwank J, Gubitosa G, Tauszik GR	20
1983 p6-1983	Hydrothermal synthesis of zeolites from rhyolitic pumice of different geological origins. <i>Materials Letters</i> , 2 (1), 74-78, 1983	Burriesci N, Crisafulli ML, Saija LM, Polizzotti G	20
1984 p3-1984	Factors affecting formation of zeolite A from alumino-silicate gels. <i>Materials Letters</i> , 2 (5, Part A), 401-406, 1984	Burriesci N, Crisafulli ML, Giordano N, Bart JCI	20
1985 p8-1985	Zeolitization of perlite. <i>Materials Letters</i> , 3 (7-8), 302-307, 1985	Antonucci PL, Crisafulli ML, Giordano N, Burriesci N	20
1995 135	Characterization of Li-doped Ni/MgO catalysts. <i>Journal of Physical Chemistry</i> , 99 (3), 990-998, 1995	Arena F, Chuvilin AL, Parmaliana A	20
2009 21-2009	A bibliometric analysis of the international literature in supercapacitors. <i>International Journal of Electrochemical Science</i> , 4, 173-186, 2009	Lufrano F, Staiti P	20
2010 15-2010	Propane-fed solid oxide fuel cell based on a composite Ni-La-CGO anode catalyst. <i>Catalysis Letters</i> , 136 (1-2), 57-64, 2010	Lo Faro M, La Rosa Dn, Frontera P, Antonucci PL, Antonucci V, Aricò AS	20

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2011 30-2011	Ethanol and dimethyl ether steam reforming on Rh/Al ₂ O ₃ catalysts for high-temperature fuel-cell feeds. Reaction Kinetics, Mechanisms and Catalysis, 104 (1), 75-87, 2011	Gucciardi E, Chiodo V, Freni S, Cavallaro S, Galvagno A, Bart JCJ	20
2014 31-2014	PtCo catalyst with modulated surface characteristics for the cathode of direct methanol fuel cells. International Journal of Hydrogen Energy, 39 (10), pp.5399-5405, 2014	Baglio V, D'Urso C, Sebastián D, Stassi A, Aricò AS	20
2015 27-2015	Tailoring carbon xerogels' properties to enhance catalytic activity of Pt catalysts towards methanol oxidation. International Journal of Hydrogen Energy, 40 (42), pp.14736-14745, 2015	Alegre C, Baquedano E, Gálvez ME, Moliner R, Lázaro MJ	20
2016 17-2016	Nickel-iron/gadolinium-doped ceria (CGO) composite electrocatalyst as a protective layer for a solid-oxide fuel cell anode fed with biofuels. ChemCatChem, 8 (3), pp.648-655, 2016	Lo Faro M, Trocino S, Zignani SC, Italiano C, Reis RM, Ticianelli EA, Aricò AS	20
2017 20-2017	Tuning supramolecular chirality in nano and mesoscopic porphyrin J-aggregates. Dyes and Pigments, 142, pp.255-261,	Zagami R, Castriciano MA, Romeo A, Trapani M, Pedicini R, Monsù Scolaro L	20
55-2017	Polymer electrolyte membranes for water photo-electrolysis. Membranes, 7 (2), art. no. 25, 2017	Aricò AS, Girolamo M, Siracusano S, Sebastián D, Baglio V, Schuster M	20
2018 20-2018	Hydrotreatment of the carbohydrate-rich fraction of pyrolysis liquids using bimetallic Ni based catalyst: Catalyst activity and product property relations. Fuel Processing Technology, 169, pp.258-268, 2018	Yin W, Venderbosch RH, Alekseeva MV, Figueirêdo MB, Heeres H, Khromova SA, Yakovlev VA, Cannilla C, Bonura G, Frusteri F, Heeres HJ	20
40-2018	Application of low-cost Me-N-C (Me = Fe or Co) electrocatalysts derived from EDTA in direct methanol fuel cells (DMFCs). Materials, 11 (7), art. no. 1193, 2018	Lo Vecchio C, Aricò AS, Baglio V	20
2019 38-2019	Nanocomposite membrane based on SPEEK as a perspectives application in electrochemical hydrogen compressor. International Journal of Hydrogen Energy, 44 (10), pp.4839-4850, 2019	Rico-Zavala A, Matera FV, Arjona N, Rodríguez-Morales JA, Ledesma-García J, Gurrola MP, Arriaga LG	20
2020 26-2020	Enhanced performance of a PtCo recombination catalyst for reducing the H ₂ concentration in the O ₂ stream of a PEM electrolysis cell in the presence of a thin membrane and a high differential pressure. Electrochimica Acta, 344, art. no. 136153, 2020	Briguglio N, Pantò F, Siracusano S, Aricò AS	20
71-2020	Corrosion assessment of promising hydrated salts as sorption materials for thermal energy storage systems. Renewable Energy, 150, pp.428-434, 2020	Fernández AG, Fullana-Puig M, Calabrese L, Palomba V, Frazzica A, Cabeza LF	20
1992 77	Selective partial oxidation of light paraffins with hydrogen peroxide on thin-layer supported Nafion-H catalysts. Catalysis Letters, 12 (4), 353-360, 1992	Parmaliana A, Frusteri F, Arena F, Giordano N	19
1997 184	Modelling of porous membranes for molten carbonate fuel cells. Materials Chemistry and Physics, Vol. 48, pp.199-206, 1997	Freni S, Maggio G, Passalacqua	19
197	Biomass gasifier for fuel cells systems. La Chimica e l'Industria, Anno 79, n. 2, pp.199-206, 1997	Hauserman WB, Giordano N, Laganà M, Recupero V	19
1998 222	Selective water sorbents for multiple applications, 7. Heat conductivity of CaCl ₂ -SiO ₂ composites. Reaction Kinetics and Catalysis Letters, 65 (2), 277-284, 1998	Aristov YI, Restuccia G, Cacciola G, Tokarev MM	19
1999 236	Catalytic partial oxidation of methane in a molten carbonate fuel cell. International Journal of Hydrogen Energy, 24 (1), 75-82,	Freni S, Cavallaro S	19
2002 7-2002	Tailoring effective FeO _x /SiO ₂ catalysts in methane to formaldehyde partial oxidation. Catalysis Letters, 80 (1-2), 69-72,	Arena F, Torre T, Venuto A, Frusteri F, Mezzapica A, Parmaliana A	19

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2006 5-2006	Kinetics of water sorption on a CaCl ₂ -in-silica-gel-pores sorbent: The effects of the pellet size and temperature. Kinetics and Catalysis, 47 (5), 770–775 (pp.793-798 nella versione in russo su "Kinetika i Kataliz"), 2006	Aristov YI, Glaznev IS, Freni A, Restuccia G	19
2007 19-2007	Adsorptive air conditioning systems driven by low temperature energy sources: choice of the working pairs. Journal of Chemical Engineering of Japan, 40 (13), 1287-1291, 2007	Gordeeva LG, Freni A, Restuccia G, Aristov YI	19
29-2007	Model-based investigation of a CO preferential oxidation reactor for polymer electrolyte fuel cell systems. International Journal of Hydrogen Energy, 32 (16), 4040-4051, 2007	Cipiti F, Pino L, Vita A, Laganà M, Recupero V	19
2008 30-2008	Catalytic features of Mg modified Ni/SiO ₂ /silica cloth systems in the decomposition of methane for making "CO _x -free" H ₂ . Catalysis Letters, 124, 7-12, 2008	Italiano G, Espro C, Arena F, Frusteri F, Parmaliana A	19
2014 15-2014	Catalytic production of oxygenated additives by glycerol etherification. Central European Journal of Chemistry, 12 (12), pp.1248-1254, 2014	Cannilla C, Bonura G, Frusteri L, Frusteri F	19
2017 25-2017	Iron-air battery operating at high temperature. Energy Technology, 5 (5), pp.670-680, 2017	Trocino S, Zignani SC, Lo Faro M, Antonucci V, Aricò AS	19
35-2017	Sulfated titania as additive in Nafion membranes for water electrolysis applications. International Journal of Hydrogen Energy, 42 (46), pp.27851-27858, 2017	Siracusano S, Baglio V, Nicotera I, Mazzapioda L, Aricò AS, Panero S, Navarra MA	19
2018 1-2018	Porphyrin/sPEEK membranes with improved conductivity and durability for PEFC technology. ACS Applied Energy Materials, 1 (4), pp.1664-1673, 2018	Carbone A, Gaeta M, Romeo A, Portale G, Pedicini R, Gatto I, Castriciano MA	19
34-2018	Lead paste recycling based on conversion into battery grade oxides. Electrochemical tests and industrial production of new batteries. Journal of Power Sources, 381, pp.127-135, 2018	Fusillo G, Rosestolato D, Scura F, Cattarin S, Mattarozzi L, Guerriero P, Gambirasi A, Brianese N, Staiti P, Guerriero R, La Sala G	19
2021 49-2021	Smart catalyst deposition by 3D printing for polymer electrolyte membrane fuel cell manufacturing. Renewable Energy, 163, pp.414-422, 2021	Cannio M, Righi S, Santangelo PE, Romagnoli M, Pedicini R, Carbone A, Gatto I	19
1983 p9-1983	Kinetics of propene hydrogenation over platinum and platinum-tin catalysts supported on polyamide. Journal of the Chemical Society, Faraday Transactions 1: Physical Chemistry in Condensed Phases, 79 (11), 2605-2612, 1983	Galvagno S, Staiti P, Antonucci PL, Donato A, Pietropaolo R	18
1990 47	Photoeffects at the polycrystalline pyrrhotite-electrolyte interface. Solar Energy Materials, 20, 323-340, 1990	Aricò AS, Antonucci V, Antonucci PL, Cocke DL, Russo U, Giordano N	18
1991 66	Influence of the calcination treatment on the surface chemical properties of Ni/MgO catalyst: A CO ₂ -Temperature Programmed Desorption approach. Langmuir, 7 (8), 1555-1557, 1991	Arena F, Parmaliana A, Mondello N, Frusteri F, Giordano N	18
1992 79	Mass and energy balances in a molten-carbonate fuel cell with internal reforming. Journal of Power Sources, 39 (2), 203-214, 1992	Freni S, Aquino M, Giordano N, Cavallaro S	18
1993 93	Influence of physicochemical properties on the performance of Pt/C porous electrodes for oxygen reduction in phosphoric acid. Electrochimica Acta, 38 (7), 913-918, 1993	Giordano N, Passalacqua E, Antonucci PL, Pino L, Vivaldi M, Patti A, Kinoshita K	18
1997 183	Role of acid-base properties of SiO ₂ based catalysts in the selective oxidation of propane. Journal of Catalysis, Vol. 167, pp.296-299, 1997	Sokolovskii VD, Arena F, Giordano N, Parmaliana A	18
1998 205	Coordination symmetry and reduction features of V ions in V ₂ O ₅ /SiO ₂ catalysts. Relevance to the partial oxidation of light alkanes. Journal of Catalysis, Vol. 173, pp.238-242, 1998	Sokolovskii VD, Arena F, Coluccia S, Parmaliana A	18

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2000 263	Kinetics of the partial oxidation of methane to formaldehyde on silica catalysts. <i>AIChE Journal</i> , 46 (11), 2285-2294, 2000	Arena F, Frusteri F, Parmaliana	18
2004 19-2004	Structural properties of C ₆₀ in solution. <i>Journal of Molecular Liquids</i> , 110 (1-3), 3-6, 2004	Migliardo F, Magazù V, Migliardo M	18
2005 12-2005	CFD analysis of the flow-field scale-up influence on the electrodes performance in a PEFC. <i>Journal of Power Sources</i> , vol. 152, pp.67-74, 2005	Squadrito G, Barbera O, Gatto I, Giacoppo G, Urbani F, Passalacqua E	18
2008 23-2008	Optimization of electrode properties for low temperature DMFC applications. <i>Journal of New Materials for Electrochemical Systems</i> , 11, 165-174, 2008	Di Blasi A, Baglio V, Denaro T, Antonucci V, Aricò AS	18
33-2008	Batteries analysis for FC-hybrid powertrain optimization. <i>International Journal of Hydrogen Energy</i> , 33 (12), 3230-3234,	Sapienza C, Andaloro L, Matera FV, Dispenza G, Creti P, Ferraro M, Antonucci V	18
2010 22-2010	Catalytic features of Ni/Ba-Ce _{0.9} -Y _{0.1} catalyst to produce hydrogen for PCFCs by methane reforming. <i>International Journal of Hydrogen Energy</i> , 35 (20), 11661-11668, 2010	Frontera P, Modafferi V, Frusteri F, Bonura G, Bottari M, Siracusano S, Antonucci PL	18
2014 32-2014	Composites membranes based on Nafion and PAMAM dendrimers for PEMFC applications. <i>International Journal of Hydrogen Energy</i> , 39 (29), pp.16686-16693, 2014	Alvarez A, Guzmán C, Rivas S, Godínez LA, Saccà A, Carbone A, Passalacqua E, Arriaga LG, Ledesma-García J	18
2015 29-2015	Analysis of different heat pumping technologies integrating small scale solid oxide fuel cell system for more efficient building heating systems. <i>International Journal of Hydrogen Energy</i> , 40 (42), pp.14746-14756, 2015	Frazzica A, Briguglio N, Sapienza A, Freni A, Brunaccini G, Antonucci V, Ferraro M	18
49-2015	Valorization of crude bio-oil to sustainable energy vector for applications in cars powering and on-board reformers via catalytic hydrogenation. <i>International Journal of Hydrogen Energy</i> , 40 (42), pp.14507-14518, 2015	Spadaro L, Palella A, Frusteri F, Arena F	18
2016 34-2016	Characterization and comparison between lithium iron phosphate and lithium-polymers batteries. <i>Journal of Energy Storage</i> , 8, pp.235-243, 2016	Sergi F, Arista A, Agnello G, Ferraro M, Andaloro L, Antonucci V	18
2017 74-2017	Modeling of a SOFC-HT battery hybrid system for optimal design of off-grid base transceiver station. <i>International Journal of Hydrogen Energy</i> , 42 (46), pp.27962-27978, 2017	Brunaccini G, Sergi F, Aloisio D, Ferraro M, Blesznowski M, Kupecki J, Motylinski K, Antonucci V	18
2018 11-2018	Development of photoanodes for photoelectrocatalytic solar cells based on copper-based nanoparticles on titania thin films of vertically aligned nanotubes. <i>Catalysis Today</i> , 304, pp.190-198, 2018	Tavella F, Ampelli C, Frusteri L, Frusteri F, Perathoner S, Centi G	18
2019 17-2019	Evaluation of the electrochemical performance of electrospun transition metal oxide-based electrode nanomaterials for water CDI applications. <i>Electrochimica Acta</i> , 309, pp.125-139, 2019	Santangelo S, Pantò F, Triolo C, Stelitano S, Frontera P, Fernández-Carretero F, Rincon I, Azpiroz P, García-Luis A, Belaustegui Y	18
2020 7-2020	Morphological and structural evaluation of hydration/dehydration stages of MgSO ₄ filled composite silicone foam for thermal energy storage applications. <i>Applied Sciences</i> , 10 (2), art. no. 453,	Piperopoulos E, Calabrese L, Bruzzaniti P, Brancato V, Palomba V, Capri A, Frazzica A, Cabeza LF, Proverbio E, Milone C	18
2021 45-2021	Light-controlled micron-scale molecular motion. <i>Nature Chemistry</i> , 13 (12), pp.1200-1206, 2021	Samperi M, Bdiri B, Sleet CD, Markus R, Mallia AR, Pérez-García L, Amabilino DB	18
1983 p5-1983	A spectroscopic investigation of the iron distribution in zeolites derived from Lipari pumice. <i>Zeolites</i> , 3 (3), 226-232, 1983	Bart JCJ, Burriesci N, Cariati F, Petrera M, Zipelli C	17

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1998 226	Solid-state interactions in Li-doped Ni/MgO catalysts. Journal of the Chemical Society, Faraday Transactions, Vol. 94, pp.3385-3391, 1998	Arena F, Frusteri F, Plyasova L, Parmaliana A	17
2001 305	Computational fluid dynamics study of phosphotungstic acid electrolyte-based fuel cell (PWAFc). Journal of Power Sources, 96 (2), 303-320, 2001	Lavrič I, Staiti P, Novak P, Hočevár S	17
2007 22-2007	Supported palladium catalysts for the selective conversion of cis-2-butene-1,4-diol to 2-hydroxytetrahydrofuran: effect of metal particle size and support. Applied Catalysis A: General, 325, 112-	Musolino MG, Apa G, Donato A, Pietropaolo R, Frusteri F	17
2013 32-2013	An electro-kinetic study of oxygen reduction in polymer electrolyte fuel cells at intermediate temperatures. International Journal of Hydrogen Energy, 38 (1), pp.675-681, 2013	Gatto I, Stassi A, Passalacqua E, Aricò AS	17
2015 38-2015	Conductivity and dielectric relaxation in crosslinked PVA by oxalic and citric acids. Polymer Science - Series A, 57 (3), pp.321-329, 2015	Fattoum A, Arous M, Pedicini R, Carbone A, Charnay C	17
2016 20-2016	Nafion® and Fumapem® polymer electrolytes for the development of advanced solid-state supercapacitors. Electrochimica Acta, 206, pp.432-439, 2016	Staiti P, Lufrano F	17
43-2016	Pure hydrogen production in membrane reactor with mixed reforming reaction by utilizing waste gas: A case study. Processes, 4 (3), 33, 2016	Jokar SM, Rahimpour MR, Shariati A, Iulianelli A, Bagnato G, Vita A, Dalena F, Basile AB	17
2017 48-2017	Influence of powders thermal activation process on the production of planar β -alumina ceramic membranes. Journal of Alloys and Compounds, 696, pp.1080-1089, 2017	Mercadelli E, Aricò AS, Gondolini A, Siracusano S, Ferraro M, Antonucci V, Sanson A	17
2018 23-2018	High specific surface area supports for highly active Rh catalysts: Syngas production from methane at high space velocity. International Journal of Hydrogen Energy, 43 (26), pp.11755-11765, 2018	Italiano C, Luchters NTJ, Pino L, Fletcher JV, Specchia S, Fletcher JCQ, Vita A	17
46-2018	Synthesized yttria stabilised zirconia as filler in Proton Exchange Membranes (PEMs) with enhanced stability. Polymer Testing, 65, pp.322-330, 2018	Saccà A, Carbone A, Gatto I, Pedicini R, Passalacqua E	17
61-2018	Sunfuels from CO ₂ exhaust emissions: Insights into the role of photoreactor configuration by the study in laboratory and industrial environment. Journal of CO ₂ Utilization, 26, pp.445-453, 2018	Spadaro L, Arena F, Negro P, Palella A	17
2020 23-2020	Bacterial-cellulose-derived carbonaceous electrode materials for water desalination via capacitive method: The crucial role of defect sites. Desalination, 492, art. no. 114596, 2020	Belaustegui Y, Pantò F, Urbina L, Corcuera MA, Eceiza A, Palella A, Triolo C, Santangelo S	17
41-2020	Enhanced production of methane through the use of a catalytic Ni-Fe pre-layer in a solid oxide co-electrolyser. International Journal of Hydrogen Energy, 45 (8), pp.5134-5142, 2020	Lo Faro M, Oliveira da Silva W, Barrientos WV, Saglietti GGA, Zignani SC, Antonucci V, Ticianelli EA, Aricò AS	17
65-2020	Chitosan-sulfated titania composite membranes with potential applications in fuel cell: Influence of cross-linker nature. Polymers, 12 (5), art. no. 1125, 2020	Humelnicu A-C, Samoila P, Asandulesa M, Cojocaru C, Bele A, Marinoiu AT, Saccà A, Harabagiu V	17
8-2020	Experimental assessment and numerical study of a pump-assisted loop heat pipe for high capacity thermal systems. Applied Thermal Engineering, 180, art. no. 115828, 2020	Vasta S, Palomba V, La Rosa DV, Bonanno A	17
1987 9	TiO ₂ based photoelectrodes in photoelectrochemical cells: performance and mechanism of O ₂ evolution. International Journal of Hydrogen Energy, 12 (5), 305-313, 1987	Antonucci V, Passalacqua E, Giordano N	16

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1990 41	Characterization of the morphological modification induced by long term operations on phosphoric acid fuel cell (PAFC) electrodes. Journal of Applied Electrochemistry, 20, 811-817, 1990	Alderucci V, Recupero V, Pino L, Di Leonardo R, Cocke DL, Giordano N, Parmigiani F	16
1992 78	Electrodeposition and characterization of iron sulphides thin films. Materials Letters, Vol. 13, pp.12-17, 1992	Aricò AS, Antonucci V, Antonucci PL, Modica E, Ferrara S, Giordano N	16
1997 181	Characterization of direct methanol fuel cell components by electron microscopy and X-ray microchemical analysis. Materials Chemistry and Physics, Vol. 47, pp.257-262, 1997	Aricò AS, Creti P, Poltarzewski Z, Mantegna R, Kim H, Giordano N, Antonucci V	16
2002 14-2002	Partial oxidation of methane to formaldehyde. A theoretic-experimental approach to process design and catalyst development. Journal of Catalysis, 207 (2), 232-236, 2002	Arena F, Frusteri F, Parmaliana	16
2004 23-2004	Structural and vibrational properties of carbon nanotubes by TEM and infrared spectroscopy. Diamond and Related Materials, 13 (4-8), 1249-1253, 2004	Branca C, Corsaro C, Frusteri F, Magazù V, Mangione A, Migliardo F, Wanderlingh U	16
2006 26-2006	MEAs for polymer electrolyte fuel cell (PEFC) working at medium temperature. Journal of Fuel Cell Science and Technology, Vol. 3, pp 361-365, 2006	Gatto I, Saccà A, Carbone A, Pedicini R, Passalacqua E	16
2007 10-2007	Simulation and design of a solar driven thermochemical refrigerator using new chemisorbents. Chemical Engineering Journal, 134, 58-65, 2007	Aristov YI, Chalaev DM, Dawoud B, Heifets LI, Popel OS, Restuccia G	16
2010 25-2010	Enhanced ionic conductivity in planar sodium-β"-alumina electrolyte for electrochemical energy storage applications. ChemSusChem, 3 (12), 1390-1397, 2010	La Rosa Dn, Monforte G, D'Urso C, Baglio V, Antonucci V, Aricò AS	16
2011 26-2011	MCFC integrated system in a biodiesel production process. Journal of Power Sources, 196 (5), 2691-2698, 2011	Urbani F, Freni S, Galvagno A, Chiodo V	16
2013 30-2013	Electrochemical characterization of sulfonated PEEK-WC membranes for PEM fuel cells. International Journal of Hydrogen Energy, 38 (1), pp.551-557, 2013	Iulianelli A, Gatto I, Trotta F, Biasizzo M, Passalacqua E, Carbone A, Bevilacqua A, Clarizia G, Gugliuzza A, Basile AB	16
2014 11-2014	Innovative zeolite coatings on graphite plates for advanced adsorbers. Applied Thermal Engineering, 72 (2), pp.153-159, 2014	Vasta S, Giacoppo G, Barbera O, Calabrese L, Bonaccorsi L, Freni A	16
46-2014	Durability of a PtSn ethanol oxidation electrocatalyst. ChemElectroChem, 1 (8), pp.1403-1406, 2014	Zignani SC, Baglio V, Gonzalez ER, Aricò AS	16
2016 45-2016	Study of a solid oxide fuel cell fed with n-dodecane reformat. Part I: Endurance test. International Journal of Hydrogen Energy, 41 (13), pp.5741-5747, 2016	Lo Faro M, Trocino S, Zignani SC, Aricò AS, Maggio G, Italiano C, Fabiano C, Pino L, Vita A	16
49-2016	Influence of thermal treatments on the stability of Pd nanoparticles supported on graphitised ordered mesoporous carbons. International Journal of Hydrogen Energy, 41 (43), pp.19570-	Celorrio V, Sebastián D, Calvillo L, García AB, Fermin DJ, Lázaro MJ	16
2017 2-2017	Methane production by sequential supercritical gasification of aqueous organic compounds and selective CO ₂ methanation. Applied Catalysis A: General, 545, pp.24-32, 2017	Frusteri F, Frusteri L, Costa F, Mezzapica A, Cannilla C, Bonura G	16
2019 47-2019	Innovative composite sorbent for thermal energy storage based on a SrBr ₂ ·6H ₂ O filled silicone composite foam. Journal of Energy Storage, 26, art. no. 100954, 2019	Calabrese L, Brancato V, Palomba V, Frazzica A, Cabeza LF	16
2020 12-2020	Simultaneous methanation of carbon oxides on nickel-iron catalysts supported on ceria-doped gadolinia. Catalysis Today, 357, pp.565-572, 2020	Frontera P, Macario A, Malara A, Antonucci V, Modafferi V, Antonucci PL	16

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2020 15-2020	Structure control on kinetics of copper reduction in Zr-containing mixed oxides during catalytic hydrogenation of carbon oxides to methanol. <i>Catalysis Today</i> , 342, pp.39-45, 2020	Bonura G, Khassin AA, Yurieva TM, Cannilla C, Frusteri F, Frusteri L	16
2021 26-2021	An innovative solar-biomass energy system to increase the share of renewables in office buildings. <i>Energies</i> , 14 (4), art. no. 914, 2021	Palomba V, Borri E, Charalampidis A, Frazzica A, Karellas S, Cabeza LF	16
2022 23-2022	Effect of LDH platelets on the transport properties and carbonation of anion exchange membranes. <i>Electrochimica Acta</i> , 403, art. no. 139713, 2022	Simari C, Lufrano E, Rehman MHU, Zhegur-Khais A, Haj-Bsoul S, Dekel DR, Nicotera I	16
35-2022	Stacked titanium dioxide nanotubes photoanode facilitates unbiased hydrogen production in a solar-driven photoelectrochemical cell powered with a microbial fuel cell treating animal manure wastewater. <i>Energy Conversion and Management</i> , 254, art. no. 115225, 2022	Mahmoud M, El-Kalliny AS, Squadrito G	16
1982 p11-1982	Mechanism of the oxidation of propene over copper molybdate. <i>Zeitschrift für Physikalische Chemie, Neue Folge</i> , 132, 85-91, 1982	Maggiore R, Galvagno S, Bart JCJ, Giannetto A, Toscano G	15
1988 17	The role of chlorine in the regeneration by hydrogen of coked reforming catalysts. <i>Journal of Catalysis</i> , 111, 235-242, 1988	Parmaliana A, Frusteri F, Mezzapica A, Giordano N	15
26	Rh/nylon catalysts for partial hydrogenation of benzene to cyclohexene. <i>Reaction Kinetics and Catalysis Letters</i> , 37 (2), 443-449, 1988	Galvagno S, Donato A, Neri Gv, Pietropaolo D, Staiti P	15
1990 44	On the reduction of NiO "forms" in magnesia supported catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 42, (1), 121-126, 1990	Arena F, Frusteri F, Parmaliana A, Giordano N	15
1991 65	Photoelectrochemical behavior of thermally activated natural pyrite-based photoelectrodes. <i>Materials Chemistry and Physics</i> , 28 (1), 75-87, 1991	Aricò AS, Antonucci V, Giordano N, Crea F, Antonucci PL	15
1994 131	Molten carbonate fuel cell with indirect internal reforming. <i>Journal of Power Sources</i> , 52, 41-47, 1994	Freni S, Aquino M, Passalacqua	15
1996 171	Propane oxidative dehydrogenation on silica based oxide catalysts. <i>Catalysis Letters</i> , Vol. 40, pp.105-108, 1996	Parmaliana A, Sokolovskii VD, Arena F, Frusteri F, Miceli D	15
2005 23-2005	Determination of MWNTs length-to-diameter ratio by static and dynamic light scattering. <i>Diamond and Related Materials</i> , 14 (3-7), 846-849, 2005	Branca C, Magazù V, Mangione A	15
2008 34-2008	New simulation tool helping a feasibility study for renewable hydrogen bus fleet in Messina. <i>International Journal of Hydrogen Energy</i> , 33 (12), 3077-3084, 2008	Briguglio N, Ferraro M, Andaloro L, Antonucci V	15
2013 12-2013	Composite anode electrocatalyst for direct methanol fuel cells. <i>Electrocatalysis</i> , 4 (4), pp.235-240, 2013	Baglio V, Zignani SC, Siracusano S, Stassi A, D'Urso C, Aricò AS	15
2014 21-2014	Oxygen-sensing properties of electrospun CNTs/PVAc/TiO ₂ composites. <i>Electronic Materials Letters</i> , 10 (1), pp.305-313, 2014	Frontera P, Trocino S, Donato A, Antonucci PL, Lo Faro M, Squadrito G, Neri Gv	15
2019 45-2019	Evaluation of hot pressing parameters on the electrochemical performance of MEAs based on Aquivion® PFSA membranes. <i>Journal of Energy Chemistry</i> , 35, pp.168-173, 2019	Gatto I, Saccà A, Baglio V, Aricò AS, Oldani C, Merlo L, Carbone A	15
2020 63-2020	Composite Nafion-catio ₃ .δ membranes as electrolyte component for PEM fuel cells. <i>Polymers</i> , 12 (9), art. no. 2019, 2020	Mazzapioda L, Lo Vecchio C, Danyliv O, Baglio V, Martinelli A, Navarra MA	15
2021 21-2021	Enabling technologies for sector coupling: A review on the role of heat pumps and thermal energy storage. <i>Energies</i> , 14 (24), art. no. 8195, 2021	Rehman OA, Palomba V, Frazzica A, Cabeza LF	15

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2022 3-2022	Electrical hybrid heat pumps assisted by natural gas boilers: A review. Applied Energy, 322, art. no. 119466, 2022	Beccali M, Bonomolo M, Martorana F, Catrini P, Buscemi A	15
33-2022	Understanding the effect of materials, design criteria and operational parameters on the adsorption desalination performance – A review. Energy Conversion and Management, 269, art. no. 116072, 2022	Zhang Y, Palomba V, Frazzica A	15
47-2022	Application of numerical methods for the design of thermocline thermal energy storage: Literature review and critical analysis. Journal of Energy Storage, 46, art. no. 103875, 2022	Palomba V, Frazzica A	15
9-2022	Development and characterization of LiCl supported composite sorbents for adsorption desalination. Applied Thermal Engineering, 203, art. no. 117953, 2022	Zhang Y, Palomba V, Frazzica A	15
1982 p6-1982	Benzene hydrogenation on nickel/honeycomb catalysts. Reaction Kinetics and Catalysis Letters, 19 (1-2), 155-160, 1982	Parmaliana A, Mezzapica A, Crisafulli C, Galvagno S, Maggiore R, Giordano N	14
1986 p2-1986	Chemical processes for energy storage and transmission. Applied Energy, Vol. 25, 315-337, 1986	Cacciola G, Giordano N	14
1994 127	Partial oxidation of ethane by in-situ generated H ₂ O ₂ . Catalysis Letters, 27, pp.355-360, 1994	Frusteri F, Savinov EN, Parmaliana A, Savinova ER, Parmon VN, Giordano N	14
1995 136	Influence of annealing temperature on the crystallographic and optical properties of electrodeposited ZnFeS thin film semiconductors. Materials Chemistry and Physics, Vol. 41, pp.55-60, 1995	Kashyout AB, Aricò AS, Giordano N, Antonucci V	14
1998 211	Oxidative dehydrogenation of propane on supported V ₂ O ₅ catalysts. The role of redox and acid-base properties. Studies in Surface Science and Catalysis, vol. 119, pp.665-670, 1998	Arena F, Frusteri F, Parmaliana A, Martra G, Coluccia S	14
2001 A18	On the potential of the multifunctional three phase catalytic membrane reactor in the selective oxidation of light alkanes by Fe ²⁺ - H ₂ O ₂ Fenton system. Catalysis Today, 67 (1-3), 247-256, 2001	Espro C, Arena F, Frusteri F, Parmaliana A	14
2004 29-2004	Advanced (electro)ceramics and innovative energy technologies. Journal of the European Ceramic Society, 24 (6), 1337-1342, 2004	Antonucci V, Antonucci PL, Gullo LR, La Rosa Dn, Siracusano S	14
2009 24-2009	Comparison of the electrochemical properties of intermediate temperature solid oxide fuel cells based on protonic and anionic electrolytes. Journal of Applied Electrochemistry, 39, 477-483,	La Rosa Dn, Lo Faro M, Monforte G, Antonucci V, Aricò AS	14
2010 2-2010	AC-impedance investigation of different MEA configurations for passive-mode DMFC mini-stack applications. Fuel Cells, 10 (1), 124-131, 2010	Baglio V, Stassi A, Matera FV, Kim H, Antonucci V, Aricò AS	14
2013 44-2013	Influence of electrode characteristics on coulombic efficiency (CE) in microbial fuel cells (MFCs) treating wastewater. Journal of the Electrochemical Society, 160 (7), G3117-G3122, 2013	Wang X, Santoro C, Cristiani P, Squadrito G, Lei Y, Agrios U, Li B	14
2014 30-2014	AC impedance spectroscopy investigation of carbon supported Pt ₃ Co and Pt cathode catalysts in direct methanol fuel cell. International Journal of Hydrogen Energy, 39 (15), pp.8026-8033, 2014	Capitanio F, Siracusano S, Stassi A, Baglio V, Aricò AS, Tavares AC	14
2016 8-2016	Real-time thermal imaging of solid oxide fuel cell cathode activity in working condition. Applied Optics, 55 (25), pp.7142-7148, 2016	Montanini R, Quattrocchi A, Piccolo SA, Amato A, Trocino S, Zignani SC, Lo Faro M, Squadrito G	14

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2017 46-2017	Study of a solid oxide fuel cell fed with n-dodecane reformat. Part II: Effect of the reformat composition. International Journal of Hydrogen Energy, 42 (3), pp.1751-1757, 2017	Lo Faro M, Trocino S, Zignani SC, Italiano C, Vita A, Aricò AS	14
73-2017	Hydrogen utilization in green fuel synthesis via CO ₂ conversion to methanol over new Cu-based catalysts. ChemEngineering, 1 (2), art. no. 19, 2017	Spadaro L, Santoro M, Palella A, Arena F	14
2019 27-2019	Solid oxide fuel cell fed directly with dry glycerol. Energy Technology, 7 (1), pp.45-47, 2019	Lo Faro M, Oliveira VL, Reis RM, Saglietti GGA, Zignani SC, Trocino S, Ticianelli EA, Aricò AS	14
29-2019	Latent thermal storage for solar cooling applications: Materials characterization and numerical optimization of finned storage configurations. Heat Transfer Engineering, 40 (12), pp.1033-1048, 2019	Palomba V, Brancato V, Palomba G, Borsacchi S, Forte C, Freni A, Frazzica A	14
43-2019	Glucose electrooxidation reaction in presence of dopamine and uric acid over ketjenblack carbon supported PdCo electrocatalyst. Journal of Electroanalytical Chemistry, 855, art. no. 113610, 2019	Brouzgou A, Lo Vecchio C, Baglio V, Aricò AS, Liang Z-X, Demin AK, Tsiakaras P	14
2020 59-2020	Effect of hematite doping with aliovalent impurities on the electrochemical performance of α -Fe ₂ O ₃ /rGO-based anodes in sodium-ion batteries. Nanomaterials, 10 (8), art. no. 1588, 2020	Modafferi V, Triolo C, Fiore M, Palella A, Spadaro L, Pianta N, Ruffo R, Patanè S, Santangelo S, Musolino MG	14
2022 6-2022	High-entropy spinel oxides produced via sol-gel and electrospinning and their evaluation as anodes in Li-ion batteries. Applied Sciences, 12 (12), art. no. 5965, 2022	Petrovičová B, Xu W, Musolino MG, Pantò F, Patanè S, Pinna N, Santangelo S, Triolo C	14
1986 p13-1986	Energy storage and transmission. Platinum catalyses chemical closed-loop system. Platinum Metals Review, 30 (4), 174-182,	Giordano N, Cacciola G, Parmaliana A	13
1990 48	Economic comparison between adsorption and compression heat pumps. Heat Recovery Systems & CHP, 10 (5-6), 499-507, 1990	Cacciola G, Restuccia G, Giordano N	13
1993 104	A temperature programmed reaction method for catalyst testing in the partial oxidation of methane to formaldehyde. Journal of Catalysis, Vol. 143, pp.299-303, 1993	Arena F, Frusteri F, Parmaliana A, Giordano N	13
109	Silica-supported MoO ₃ and V ₂ O ₅ catalysts in partial oxidation of methane to formaldehyde. ACS Symposium Series, 523, pp.43-57, 1993	Parmaliana A, Sokolovskii VD, Miceli D, Arena F, Giordano N	13
91	Potential biomass resources of Sicily for electric power generation. Applied Energy, Vol.45, pp.219-240, 1993	Alderucci V, Giordano A, Iovino A, Giordano N, Phillips VD	13
2012 7-2012	Stability of metallic ruthenium in Ru-Co supported silica catalysts. Catalysis Letters, 142 (12), 1452-1460, 2012	Ragaini V, Pirola C, Vitali S, Bonura G, Cannilla C, Frusteri F	13
2013 9-2013	Study on sulphonated polysulphone/polyurethane blend membranes for fuel cell applications. Chemical Physics Letters, 579, pp.100-104, 2013	Pedicini R, Saccà A, Carbone A, Gatto I, Patti A, Passalacqua E	13
2014 27-2014	Energy and provision management study: A research activity on fuel cell design and breadboarding for lunar surface applications supported by European Space Agency. International Journal of Hydrogen Energy, 39 (26), pp.14079-14096, 2014	Barbera O, Mailland F, Hovland S, Giacoppo G	13
34-2014	Effect of unequal load of carbon xerogel in electrodes on the electrochemical performance of asymmetric supercapacitors. Journal of Applied Electrochemistry, 44 (4), pp.481-489, 2014	Calvo EG, Lufano F, Arenillas A, Brigandi A, Menéndez JA, Staiti P	13
2018 42-2018	Titanium–tantalum oxide as a support for Pd nanoparticles for the oxygen reduction reaction in alkaline electrolytes. Materials for Renewable and Sustainable Energy, 7 (2), art. no. 8, 2018	Alegre C, Siracusano S, Modica E, Aricò AS, Baglio V	13

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2018 47-2018	A definitive assessment of the CO oxidation pattern of a nanocomposite MnCeO _x catalyst. Reaction Chemistry and Engineering, 3 (3), pp.293-300, 2018	Arena F, Di Chio R, Espro C, Palella A, Spadaro L	13
2019 1-2019	Silica nanoparticles decorated with polymeric sulfonic acids trigger selective oxidation of benzylic methylenes to aldehydic and ketonic carbonyls. ACS Sustainable Chemistry and Engineering, 7 (6), pp.5886-5891, 2019	Paris E, Oldani C, Aricò AS, D'Urso C, Bigi F, Maestri G, Pancrazzi F, Maggi R	13
16-2019	Improving the stability and discharge capacity of nanostructured Fe ₂ O ₃ /C anodes for iron-air batteries and investigation of 1-octanethiol as an electrolyte additive. Electrochimica Acta, 318, pp.625-634, 2019	McKerracher RD, Figueredo-Rodriguez HA, Alegre C, Aricò AS, Baglio V, Ponce de León C	13
31-2019	Verification of hydrothermal stability of adsorbent materials for thermal energy storage. International Journal of Energy Research, 43 (12), pp.6161-6170, 2019	Frazzica A, Brancato V	13
32-2019	Influence of doping level in Ytria-Stabilised-Zirconia (YSZ) based-fillers as degradation inhibitors for proton exchange membranes fuel cells (PEMFCs) in drastic conditions. International Journal of Hydrogen Energy, 44 (59), pp.31445-31457, 2019	Saccà A, Gatto I, Carbone A, Pedicini R, Maisano S, Stassi A, Passalacqua E	13
2020 30-2020	Unified methodology to identify the potential application of seasonal sorption storage technology. Energies, 13 (5), art. no. 1037, 2020	Frazzica A, Brancato V, Dawoud B	13
31-2020	Evaluation of in-situ coated porous structures for hybrid heat pumps. Energy, 209, art. no. 118313, 2020	Palomba V, Lombardo W, Große A, Herrmann R, Nitsch B, Strehlow A, Bastian R, Sapienza A, Frazzica A	13
2021 12-2021	Plastic heat exchangers for adsorption cooling: Thermodynamic and dynamic performance. Applied Thermal Engineering, 188, art. no. 116622, 2021	Sapienza A, Brancato V, Aristov YI, Vasta S	13
18-2021	Experimental comparison of innovative composite sorbents for space heating and domestic hot water storage. Crystals, 11 (5), art. no. 476, 2021	Brancato V, Gordeeva LG, Capri A, Grekova AD, Frazzica A	13
54-2021	Freight distribution with electric vehicles: A case study in Sicily. Delivery van development. Transportation Engineering, 3, art. no. 100048, 2021	Napoli G, Polimeni A, Micari S, Dispenza G, Antonucci V, Andaloro L	13
56-2021	Copper-Iron-Zinc-Cerium oxide compositions as most suitable catalytic materials for the synthesis of green fuels via CO ₂ hydrogenation. Catalysis Today, 379, pp.230-239, 2021	Spadaro L, Palella A, Arena F	13
2022 17-2022	Silicon carbide and alumina open-cell foams activated by Ni/CeO ₂ -ZrO ₂ catalyst for CO ₂ methanation in a heat-exchanger reactor. Chemical Engineering Journal, 434, art. no.	Italiano C, Drago Ferrante G, Pino L, Laganà M, Ferraro M, Antonucci V, Vita A	13
41-2022	Holmium promoted yttria-zirconia supported Ni catalyst for H ₂ production via dry reforming of methane. International Journal of Hydrogen Energy, 47 (90), pp.38242-38257, 2022	Fakeeha AH, Patel R, El Hassan N, Al-Zahrani SA, Al-Awadi AS, Frusteri L, Bayahia H, Alharthi AI, Al-Fatesh AS, Kumar R	13
50-2022	Metal-organic-framework-derived electrocatalysts for alkaline polymer electrolyte fuel cells. Journal of Power Sources, 550, art. no. 232135, 2022	da Silva Freitas W, Mecheri B, Lo Vecchio C, Gatto I, Baglio V, Ficca VCA, Patra A, Placidi E, D'Epifanio A	13
1984 p9-1984	A kinetic study of low temperature hydrogenation of benzene over monolithic-supported platinum catalyst. Applied Catalysis, 12, pp.49-57, 1984	Parmaliana A, El Sawi M, Fedele U, Giordano G, Frusteri F, Mento G, Giordano N	12
1985 p6-1985	Mechanism of O ₂ evolution on TiO ₂ photoanodes. International Journal of Hydrogen Energy, 10 (9), 585-590, 1985	Antonucci V, Passalacqua E, Antonucci PL, Giordano N	12

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1988 20	Analysis of the decay of an isothermal MCFC at 893 K. Journal of the Electrochemical Society, 135 (4), 910-913, 1988	Giordano N, Freni S, Quagliata R, Cavallaro S, Carbonaro P	12
1993 90	Mesitylene solvated platinum atoms in the preparation of efficient supported catalysts for the dehydrogenation of methyleyclohexane to toluene. Catalysis Letters, 17, pp.151-155,	Vitulli G, Falorni R, Salvadori P, Parmaliana A, Frusteri F, Giordano N	12
1995 134	Vapor pressure of (potassium hydroxide+ammonia+water) solutions. Journal of Chemical and Engineering Data, Vol. 40, pp.267-270, 1995	Cacciola G, Restuccia G, Aristov YI	12
1999 209	Adsorption heat pumps a new way for energy saving and CFCs replacement. International monograph on "Adsorption and its applications in Industry and Environment Protection - Vol II: Applications in Environmental Protection". Studies in Surface Science and Catalysis, A. Dabrowski ed., Vol. 120B, pp.949-978, 1999	Cacciola G, Restuccia G	12
2000 260	CO tolerance of Pt-W electrocatalysts for polymer electrolyte fuel cells. Journal of New Materials for Electrochemical Systems, 3, pp.131-135, 2000	Passalacqua E, Lufrano F, Squadrito G, Patti A, Giorgi L	12
2004 25-2004	Experimental evaluation on the CO ₂ separation process supported by polymeric membranes. Materials Letters, 58 (12-13), 1865-1872, 2004	Freni S, Cavallaro S, Donato S, Chiodo V, Vita A	12
2006 18-2006	Membranes for portable direct alcohol fuel cells. Desalination, 200 (1-3), 653-655, 2006	Antonucci V, Aricò AS, Baglio V, Brunea J, Buder I, Cabello N	12
2008 37-2008	Pt catalysts supported on zeolitized-pumice for the selective hydrogenation of campholenic aldehyde: A characterization and kinetic study. Applied Catalysis A: General, 350 (2), 169-177, 2008	Neri Gv, Rizzo G, De Luca L, Corigliano F, Arrigo I, Aricò AS, Donato A	12
2011 34-2011	Investigation of IrO ₂ /Pt electrocatalysts in unitized regenerative fuel cells. International Journal of Electrochemistry, vol. 2011, art. ID 276205, 5 pag., 2011	Baglio V, D'Urso C, Di Blasi A, Ornelas R, Arriaga LG, Antonucci V, Aricò AS	12
2013 7-2013	PtRu nanoparticles deposited by the sulfite complex method on highly porous carbon xerogels: Effect of the thermal treatment. Catalysts, 3 (3), pp.744-756, 2013	Alegre C, Sebastián D, Gálvez ME, Moliner R, Stassi A, Aricò AS, Lázaro MJ, Baglio V	12
2015 43-2015	Composite sPEEK-TPyP membranes development for portable applications. International Journal of Hydrogen Energy, 40 (48), pp.17394-17401, 2015	Carbone A, Saccà A, Pedicini R, Gatto I, Passalacqua E, Romeo A, Monsù Scolaro L, Castriciano MA	12
2016 33-2016	Fuel cell performance assessment for closed-loop renewable energy systems. Journal of Energy Chemistry, 25(3), pp.531-538,	Matera FV, Gatto I, Patti A, Passalacqua E	12
2017 39-2017	Direct methanol fuel cell stack for auxiliary power units applications based on fumapem® F-1850 membrane. International Journal of Hydrogen Energy, 42 (43), pp.26889-26896, 2017	Baglio V, Stassi A, Barbera O, Giacoppo G, Sebastián D, D'Urso C, Schuster M, Bauer B, Bonde JL, Aricò AS	12
2018 25-2018	Crystallite formation effect on the physicochemical properties of SPEEK membranes for fuel cell application. International Journal of Hydrogen Energy, 43 (10), pp.5175-5183, 2018	Troni E, Donnadio A, Pica M, Carbone A, Gatto I, Casciola M	12
2019 20-2019	Li-ion battery modeling and state of charge estimation method including the hysteresis effect. Electronics, 8 (11), art. no. 1324, 2019	Antonucci V, Artale G, Brunaccini G, Caravello G, Cataliotti A, Cosentino V, Di Cara D, Ferraro M, Guaiana S, Panzavecchia N, Sergi F, Tinè G	12
68-2019	Insight on single cell proton exchange membrane fuel cell performance of Pt-Cu/C cathode. Catalysts, 9 (6), art. no. 544,	Bele M, Gatalo M, Jovanović P, Ruiz-Zepeda F, Šala M, Šest E, Hodnik N, Hočevár S, Gatto I, Saccà A, Aricò AS, Gaberšček	12

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2020 17-2020	Enhanced photoelectrochemical water splitting at hematite photoanodes by effect of a nife-oxide co-catalyst. Catalysts, 10 (5), art. no. 525, 2020	Lo Vecchio C, Trocino S, Zignani SC, Baglio V, Carbone A, Díez-García MI, Contreras M, Gómez R, Aricò AS	12
50-2020	Field technical applicability and cost analysis for microwave based regenerating permeable reactive barriers (MW-PRBs) operating in Cs-contaminated groundwater treatment. Journal of Environmental Management, 260, art. no. 110064, 2020	Falciglia PP, Gagliano E, Brancato V, Finocchiaro G, Catalfo A, De Guidi G, Romano S, Roccaro P, Vagliasindi FGA	12
61-2020	Promoting direct CO ₂ conversion to DME over zeolite-based hybrid catalysts. Petroleum Chemistry, 60 (4), pp.508-515, 2020	Frusteri L, Bonura G, Cannilla C, Todaro S, Giordano G, Migliori M, Frusteri F	12
62-2020	Anionic exchange membrane for photo-electrolysis application. Polymers, 12 (12), art. no. 2991, 2020	Lo Vecchio C, Carbone A, Trocino S, Gatto I, Patti A, Baglio V, Aricò AS	12
74-2020	Cementitious composite materials for thermal energy storage applications: A preliminary characterization and theoretical analysis. Scientific Reports, 10 (1), art. no. 12833, 2020	Lavagna L, Burlon D, Nisticò R, Brancato V, Frazzica A, Pavese M, Chiavazzo E	12
2021 25-2021	Life cycle assessment for supporting eco-design: The case study of sodium-nickel chloride cells. Energies, 14 (7), art. no. 1897, 2021	Longo S, Cellura M, Cusenza MA, Guarino F, Mistretta M, Panno D, D'Urso C, Leonardi SG, Briguglio N, Tumminia G, Antonucci V, Ferraro M	12
36-2021	Investigation on the ageing mechanism for a lithium-ion cell under accelerated tests: The case of primary frequency regulation service. Journal of Energy Storage, 41, art. no. 102904, 2021	Leonardi SG, Aloisio D, Brunaccini G, Stassi A, Ferraro M, Antonucci V, Sergi F	12
44-2021	Ultrathin silicon nanowires for optical and electrical nitrogen dioxide detection. Nanomaterials, 11 (7), art. no. 1767, 2021	Morganti D, Leonardi AA, Lo Faro MJ, Leonardi SG, Salvato G, Fazio B, Musumeci P, Livreri P, Conoci S, Neri Gv, Irrera A	12
2022 2-2022	DFT and kinetic evidences of the preferential CO oxidation pattern of manganese dioxide catalysts in hydrogen stream (PROX). Applied Catalysis B: Environmental, 300, art. no. 120715, 2022	Arena F, Ferrante F, Di Chio R, Bonura G, Frusteri F, Frusteri L, Prestianni A, Morandi S, Martra G, Duca D	12
54-2022	State of the art on green route synthesis of gold/silver bimetallic nanoparticles. Molecules, 27 (3), art. no. 1134, 2022	Scala A, Neri GI, Micale N, Cordaro Ms, Piperno A	12
1982 p1-1982	Effect of pretreatment in benzene hydrogenation on Pt/nylon catalyst. Reaction Kinetics and Catalysis Letters, 21 (1-2), 157-162, 1982	Galvagno S, Staiti P, Antonucci PL, Giannetto A, Giordano N	11
1983 p16-1983	Preparation and characterization of magnetite samples having different stoichiometric compositions. Journal of the Chemical Society, Faraday Transactions 1: Physical Chemistry in Condensed Phases, 79 (10), 2449-2456, 1983	Ardizzone S, Formaro L, Sivieri E, Burriesci N, Petrera M	11
1985 p10-1985	Zeolites from pumice and tuff as evaluation of pozzolanic cement constituents. Zeolites, 5 (2), 96-100, 1985	Burriesci N, Arcoraci C, Giordano N, Antonucci PL	11
1991 54	Hydrogenation of benzene on a Pt/Al ₂ O ₃ block catalyst with a honeycomb structure. Kinetics and Catalysis, 32 (1), 67-73 (pp.78-84 nella versione in russo su "Kinetika i Kataliz"), 1991	Ostrovskii NM, Parmaliana A, Frusteri F, Maslova LP, Giordano N	11
1992 84	Influence of the morphological absorptive properties upon the performance of phosphoric acid fuel cell gas diffusion electrodes. International Journal of Hydrogen Energy, 17 (10), 771-776, 1992	Passalacqua E, Staiti P, Pino L, Vivaldi M, Giordano N, Taylor EJ, Wilemski G	11
1993 110	On the reduction on Pd ²⁺ forms in Pd/γ-Al ₂ O ₃ catalysts. Reaction Kinetics and Catalysis Letters, 51 (2), 331-342, 1993	Frusteri F, Arena F, Parmaliana A, Mondello N, Giordano N	11

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1994 118	1 kW PAFC stack: a case hystory. International Journal of Hydrogen Energy, 19 (7), 633-639, 1994	Recupero V, Alderucci V, Di Leonardo R, Laganà M, Zappalà G, Giordano N	11
124	Digital simulation of galvanostatic current-potential data for gas-diffusion electrodes and estimation of electrode-kinetic parameters. Journal of Power Sources, Vol.50, pp.177-186, 1994	Aricò AS, Shukla AK, Antonucci V, Giordano N	11
1996 148	Fractal surface characterization of chalcogenide electrodeposits. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, Vol.38, pp.9-15, 1996	Antonucci PL, Barberi R, Aricò AS, Amoddeo A, Antonucci V	11
157	Electrodes at the gas diffusion platinum electrodes-H ₃ PW ₁₂ O ₄₀ proton conducting liquid electrolyte interface. Electrochimica Acta, 41 (18), 2817-2827, 1996	Hočevár S, Passalacqua E, Vivaldi M, Patti A, Giordano N	11
1997 195	Pumice supported nickel catalysts. Journal of Catalysis, 172 (2), 463-470, 1997	Venezia AM, Parmaliana A, Mezzapica A, Deganello G	11
1999 249	Modelling of phosphoric acid fuel cell cathode behaviour. Journal of Applied Electrochemistry, vol.29, pp.171-176, 1999	Maggio G	11
2000 258	Partial oxidation of propane on Nafion supported catalytic membranes. Catalysis Today, vol.61, pp.37-41, 2000	Frusteri F, Espro C, Arena F, Passalacqua E, Patti A, Parmaliana A	11
2007 1-2007	Computer aided fuel cell design and scale-up, comparison between model and experimental results. Journal of Applied Electrochemistry, vol.37, pp.87-93, 2007	Squadrito G, Barbera O, Giacoppo G, Urbani F, Passalacqua E	11
2010 6-2010	Influence of post-casting treatments on sulphonated polyetheretherketone composite membranes. Journal of Power Sources, 195 (18), 6037-6042, 2010	Carbone A, Gatto I, Ohira A, Wu L, Passalacqua E	11
2012 3-2012	The influence of polydimethylsiloxane curing ratio on capillary pressure in microfluidic devices. Applied Surface Science, 258 (20), 8032-8039, 2012	Viola I, Zacheo A, Arima V, Aricò AS, Cortese B, Manca M, Zocco A, Taurino A, Rinaldi R, Gigli G	11
2014 42-2014	High surface area Ti-based mixed oxides nanofibers prepared by electrospinning. Materials Letters, 134, pp.281-285, 2014	Frontera P, Scarpino LA, Busacca C, Antonucci PL, Siracusano S, Aricò AS	11
2015 45-2015	Facile synthesis of Zr- and Ta-based catalysts for the oxygen reduction reaction. Chinese Journal of Catalysis, 36 (4), pp.484-489, 2015	Sebastián D, Baglio V, Sun S, Tavares AC, Aricò AS	11
2017 47-2017	Ventilative cooling application in Mediterranean buildings: impacts on grid interaction and load match. International Journal of Ventilation, 16 (2), pp.99-111, 2017	Guarino F, Longo S, Tumminia G, Cellura M, Ferraro M	11
2020 54-2020	Effects of the chemical treatment on the physical-chemical and electrochemical properties of the commercial Nafion™ NR212 membrane. Materials, 13 (22), art. no. 5254, 2020	Passalacqua E, Pedicini R, Carbone A, Gatto I, Matera FV, Patti A, Saccà A	11
2021 24-2021	Hybrid cascade heat pump and thermal-electric energy storage system for residential buildings: Experimental testing and performance analysis. Energies, 14 (9), art. no. 2580, 2021	Palomba V, Bonanno A, Brunaccini G, Aloisio D, Sergi F, Dino GE, Varvagiannis E, Karellas S, Nitsch B, Strehlow A, Große A, Herrmann R, Barmparitsas N, Koch N, Vérez D, Cabeza LF, Zsembinszki G, Frazzica A	11
6-2021	Photocatalytic degradation of methylene blue dye by electrospun binary and ternary zinc and titanium oxide nanofibers. Applied Sciences, 11 (20), art. no. 9720, 2021	Petrovičová B, Dahrouch Z, Triolo C, Pantò F, Malara A, Patanè S, Allegrini M, Santangelo S	11

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2021 9-2021	Thermodynamic performance of adsorption working pairs for low-temperature waste heat upgrading in industrial applications. Applied Sciences, 11 (8), art. no. 3389, 2021	Frazzica A, Palomba V, Dawoud B	11
1983 p10-1983	Iron oxide electrodes for photoelectrolysis of water. International Journal of Hydrogen Energy, 8 (10), 763-766, 1983	Giordano N, Passalacqua E, Antonucci V, Bart JCJ	10
1984 p6-1984	Influence of iron on the extraction of vanadium from oil ashes. Journal of the Chemical Society, Faraday Transactions 1: Physical Chemistry in Condensed Phases, 80 (7), 1777-1785, 1984	Burriesci N, Corigliano F, Primerano P, Zipelli C, Petrera	10
1989 31	Activity and characterization of alkali doped Ni/MgO catalysts. Studies in Surface Science and Catalysis, 48, 739-748, 1989	Parmaliana A, Frusteri F, Arena F, Mondello N, Giordano N	10
1990 57	Pre-formed zeolite products to be used in adsorption heat pump. Part 1: Preparation methodology and adsorption measurements. Adsorption Science & Technology, 7 (3), 163-171, 1990	Cacciola G, Czepirski L, Restuccia G, Giordano N	10
1991 69	Thin-layer supported Nafion catalysts for the partial oxidation of light alkanes. Journal of the Chemical Society, Chemical Communications, 19, pp.1332-1334, 1991	Frusteri F, Parmaliana A, Arena F, Giordano N	10
1997 182	The influence of low operating temperature on molten carbonate fuel cells decay process. International Journal of Energy Research, Vol. 21, pp.1061-1070, 1997	Freni S, Passalacqua E, Barone F	10
202	Selective oxidation of ethylene over carbon-supported Pd and Pt catalytic membranes. Catalysis Letters, 46 (1-2), 57-62, 1997	Frusteri F, Parmaliana A, Ostrovskii NM, Iannibello A, Giordano N	10
1998 229	Partial oxidation of ethane in a three-phase electro-Fenton system. Studies in Surface Science and Catalysis, Vol.119, pp.429-434,	Savinova ER, Kuzmin AO, Frusteri F, Parmaliana A, Parmon VN	10
2002 17-2002	Design, preparation and testing of effective FeO _x /SiO ₂ catalysts in methane to formaldehyde selective oxidation. Studies in Surface Science and Catalysis, 143, 1097-1105 [nel volume compare, per errore, l'anno 2000], 2002	Arena F, Frusteri F, Spadaro L, Venuto A, Parmaliana A	10
2004 12-2004	Factors affecting the efficiency of Nafion-based catalytic membranes in the selective oxidation of light paraffins mediated by the Fenton system. Catalysis Today, 91-92, 215-218, 2004	Espro C, Bonura G, Arena F, Frusteri F, Parmaliana A, Sini F, Solinas V	10
2006 20-2006	Ni thin layer catalysts for making H ₂ "CO _x -free" by decomposition of natural gas in a structured multilayer reactor. Studies in Surface Science and Catalysis, vol.162, pp.633-640, 2006	Italiano G, Espro C, Arena F, Frusteri F, Parmaliana A	10
2008 28-2008	Degradation of oxygen-depolarized Ag-based gas diffusion electrodes for chlor-alkali cells. Journal of Applied Electrochemistry, 38, 1637-1646, 2008	Siracusano S, Denaro T, Antonucci V, Aricò AS, Urgeghe C, Federico F	10
2010 3-2010	Pt dendrimer nanocomposites for oxygen reduction reaction in direct methanol fuel cells. Journal of Solid State Electrochemistry, 14 (5), 835-840, 2010	Ledesma-García J, Escalante-García L, Chapman TW, Arriaga LG, Baglio V, Antonucci V, Aricò AS, Ornelas R,	10
2012 43-2012	Proposte metodologiche per la valutazione del potenziale di geoscambio: il Progetto VIGOR. Acque Sotterranee - Italian Journal of Groundwater, 1 (3/130), dic. 2012, 43-53, 2012	Galgaro A, Di Sipio E, Destro E, Chiesa S, Uricchio VF, Bruno D, Masciale R, Lopez N, Iaquina P, Teza G, Iovine G, Montanari D, Manzella A, Soleri S, Greco R, Di Bella G, Monteleone S, Sabatino M, Iorio M, Petruccione E, Giaretta A, Tranchida G, Trumpy E, Gola G, D'Arpa S	10
2014 48-2014	Evaluation of Palladium-based electrocatalyst for oxygen reduction and hydrogen oxidation in intermediate temperature polymer electrolyte fuel cells. International Journal of Hydrogen Energy, 39 (36), pp.21581-21587, 2014	Stassi A, Gatto I, Baglio V, Aricò AS	10

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2015 30-2015	Eruptive water transport in PEMFC: A single-drop capillary model. International Journal of Hydrogen Energy, 40 (42), pp.14667-14675, 2015	Flipo G, Josset C, Giacoppo G, Squadrito G, Auvity B, Bellettre J	10
44-2015	Electrocatalytic activity and durability of Pt-decorated non-covalently functionalized graphitic structures. Catalysts, 5 (3), pp.1622-1635, 2015	Negro E, Stassi A, Baglio V, Aricò AS, Koper GJM	10
2017 63-2017	Susceptibility to corrosion of aluminium alloy components in ethanol adsorption chiller. Renewable Energy, 110, pp.174-179, 2017	Proverbio E, Calabrese L, Capri A, Bonaccorsi L, Dawoud B, Frazzica A	10
2018 2-2018	Toward tandem solar cells for water splitting using polymer electrolytes. ACS Applied Materials and Interfaces, 10 (30), pp.25393-25400, 2018	Cots A, Bonete P, Sebastián D, Baglio V, Aricò AS, Gómez R	10
36-2018	A comparison of Pd/C, perovskite, and Ni-Fe hexacyanoferrate bifunctional oxygen catalysts, at different loadings and catalyst layer thicknesses on an oxygen gas diffusion electrode. Journal of the Electrochemical Society, 165 (7), A1254-A1262, 2018	McKerracher RD, Figueredo-Rodriguez HA, Avila-Alejo JO, Kwasnicki K, Ponce de León C, Alegre C, Baglio V, Aricò AS, Walsh FC	10
2019 66-2019	A new class of MnCeO _x materials for the catalytic gas exhausts emission control: A study of the CO model compound oxidation. Topics in Catalysis, 62, pp.259-265, 2019	Arena F, Di Chio R, Espro C, Fazio B, Palella A, Spadaro L	10
67-2019	Fuel cells hybrid systems for resilient microgrids. International Journal of Hydrogen Energy, 44 (38), pp.21162-21173, 2019	Brunaccini G, Sergi F, Aloisio D, Randazzo N, Ferraro M, Antonucci V	10
2020 42-2020	Experimental evaluation of the hydrothermal stability of a silicone/zeolite composite foam for solar adsorption heating and cooling application. Journal of Applied Polymer Science, 137 (4), art. no. 48311, 2020	Calabrese L, Brancato V, Frazzica A	10
2021 1-2021	On the design and characterisation of a microwave microstrip resonator for gas sensing applications. Acta IMEKO, 10 (2), pp.54-61, 2021	Gugliandolo G, Aloisio D, Campobello G, Crupi G, Donato N	10
14-2021	Electrostimulation of hyperthermophile Thermotoga neapolitana cultures. Bioresource Technology, 319, art. no. 124078, 2021	d'Ippolito G, Squadrito G, Tucci M, Esercizio N, Sardo A, Vastano M, Lanzilli M, Fontana A, Cristiani P	10
30-2021	Evaluation of titanium oxide introduction in the electrode structure for portable PEMFC applications. International Journal of Hydrogen Energy, 46 (54), pp.27687-27699, 2021	Gatto I, Saccà A, Pedicini R, Passalacqua E, Carbone A	10
2022 60-2022	Energy communities as demand-side innovators? Assessing the potential of European cases to reduce demand and foster flexibility. Energy Research & Social Science, 93, art. no. 102848,	Barnes J, Hansen P, Kamin T, Golob U, Musolino M, Nicita A	10
1982 p4-1982	Vapor phase Beckmann rearrangement of cyclohexanone oxime over fluorinated alumina catalysts. Reaction Kinetics and Catalysis Letters, 21 (4), 467-472, 1982	Cimino G, Vitarelli P, Alibrandi G, Caristi C, Galvagno S	9
1983 p17-1983	Application in detergency of a low-grade zeolite-A derived from Lipari pumice. Journal of Chemical Technology & Biotechnology, 33A (8), 421-427, 1983	Burriesci N, Corigliano F, Saija LM, Zipelli C, Bart JCY	9
1986 p14-1986	Iron-free zeolites from Lipari pumice. Zeolites, 6 (2), 119-124, 1986	Burriesci N, Crisafulli ML, Giordano N, Antonucci PL	9
1987 A9	Platinum reforming catalysts: effect of chlorine content on coking and catalyst self-regeneration. Studies in Surface Science and Catalysis, 34, 197-208, 1987	Parmaliana A, Frusteri F, Nesterov GA, Paukshtis E, Giordano N	9
1988 A20	The electronic structure and Mössbauer spectra of Iron(II). Phthalocyanine complexes as a studied by semiempirical MOLCAO calculations. Inorganica Chimica Acta, 148 (2), 191-	Valenti V, Fantucci P, Cariati F, Micera G, Petrera M, Burriesci	9

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1990 38	Structural modification of a spent molten carbonate fuel cell (MCFC). Journal of Applied Electrochemistry, 20, 804-810, 1990	Freni S, Giordano N, Cavallaro S	9
39	Morphological changes in the electrodes of phosphoric acid fuel cells operating under open circuit voltage conditions. Journal of Applied Electrochemistry, 20, 235-239, 1990	Alderucci V, Passalacqua E, Giordano N, Antonucci PL, Parmigiani F, Ricci N	9
1993 95	Oxidative conversion of CH ₄ on Ni and Ag electrode-catalysts in molten carbonate fuel cell reactor. Catalysis Letters, Vol. 17, pp.213-221, 1993	Belyaev VD, Sobyenin VA, Parmon VN, Freni S, Aquino M	9
97	Influence of the operating conditions and of ageing upon the electrochemical performance of a phosphoric acid fuel cell. Journal of Power Sources, 42 (3), 365-376, 1993	Alderucci V, Recupero V, Passalacqua E, Di Leonardo R, Laganà M, Giordano N	9
1994 115	Effect of platinum particle size on the performance of PAFC O ₂ reduction electrocatalysts. International Journal of Hydrogen Energy, 9 (2), 165-168, 1994	Giordano N, Antonucci PL, Passalacqua E, Pino L, Aricò AS, Antonucci V, Alderucci V, Recupero V	9
1996 159	Porous ceramic membranes for direct internal reforming molten carbonate fuel cells. Materials Letters, 29, pp.177-183, 1996	Passalacqua E, Freni S, Barone F, Patti A	9
175	Adsorption equilibria and kinetics of water-vapor on modified chabazite. Adsorption Science & Technology, 14 (2), 83-88, 1996	Czepirski L, Komorowska - Czepirska E, Cacciola G	9
1998 233	Misura della capacità termica di solidi adsorbenti e calcolo delle prestazioni di pompe di calore ad adsorbimento. La Termotecnica, 52 (3), 67-72, 1998	Cacciola G, Maggio G, Restuccia G	9
2010 19-2010	Innovative membrane based process for the selective oxidation of light alkanes assisted by the Fenton system. Asia-Pacific Journal of Chemical Engineering, 5 (1), 66-72, 2010	Espro C, Mendolia F, Marini S, Frusteri F, Parmaliana A	9
29-2010	Physico-chemical and catalytic properties of effective nanostructured MnCeO _x systems for environmental applications. Studies in Surface Science and Catalysis, 175, 493-496, 2010	Arena F, Trunfio G, Negro J, Saja C, Raneri A, Spadaro L	9
2011 21-2011	Dynamic model a PEM electrolyzer based on artificial neural networks. Journal of New Materials for Electrochemical Systems, 14 (2), 113-119, 2011	Chávez-Ramírez AU, Muñoz-Guerrero R, Sanchez-Huerta V, Ramirez-Arredondo JM, Ornelas R, Arriaga LG, Siracusano S, Brunaccini G, Napoli G, Antonucci V, Aricò AS	9
2014 16-2014	A preliminary investigation on reinforced double layer Nafion membranes for high temperature PEFCs application. Chemical Physics Letters, 591, pp.149-155, 2014	Saccà A, Pedicini R, Carbone A, Gatto I, Fracas P, Passalacqua E	9
2019 2-2019	Direct CO ₂ -to-dimethyl ether hydrogenation over CuZnZr/zeolite hybrid catalyst: New evidences on the interaction between acid and metal sites. Annales de Chimie: Science des Materiaux, 43 (3), pp.141-149, 2019	Catizzzone E, Bonura G, Migliori M, Braccio G, Frusteri F, Giordano G	9
50-2019	Evaluation of a Li-Titanate battery module in primary frequency control ancillary service conditions. Journal of Energy Storage, 24, art. no. 100805, 2019	Sergi F, Brunaccini G, Aloisio D, Randazzo N, Polito RM, Pietrucci M, Fadda MG, Ferraro M, Antonucci V	9
7-2019	Decarbonising the shipping sector: A critical analysis on the application of waste heat for refrigeration in fishing vessels. Applied Sciences, 9 (23), art. no. 5143, 2019	Palomba V, Dino GE, Ghirlando R, Micallef C, Frazzica A	9
8-2019	Adsorption transformation of heat: The applicability in various climatic zones of the Russian federation. Applied Sciences, 9 (1), art. no. 139, 2019	Grekova AD, Gordeeva LG, Sapienza A, Aristov YI	9
2020 10-2020	Catalytic activity of Ni-Co supported metals in carbon dioxides methanation. Canadian Journal of Chemical Engineering, 98 (9), pp.1924-1934, 2020	Frontera P, Malara A, Modafferi V, Antonucci V, Antonucci PL, Macario A	9

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2020 76-2020	Dynamics of carbon formation during the catalytic hydrodeoxygenation of raw bio-oil. Sustainable Energy and Fuels, 4 (11), pp.5503-5512, 2020	Hita I, Cordero-Lanzac T, Bonura G, Frusteri F, Bilbao J, Castaño P	9
2021 20-2021	Investigating the durability of a direct methanol fuel cell equipped with commercial platinum group metal-free cathodic electro-catalysts. Electrochimica Acta, 394, art. no. 139108, 2021	Lo Vecchio C, Serov A, Dicome M, Zulevi B, Aricò AS, Baglio V	9
38-2021	Techno-economic feasibility of industrial production of biofuels by glycerol etherification reaction with isobutene or tert-butyl alcohol assisted by vapor-permeation membrane. Journal of Industrial and Engineering Chemistry, 98, pp.413-424, 2021	Cannilla C, Giacoppo G, Frusteri L, Todaro S, Bonura G, Frusteri F	9
2022 21-2022	Selective electro-oxidation of dopamine on Co or Fe supported onto N-doped ketjenblack. Electrochimica Acta, 409, art. no. 139943, 2022	Balkourani G, Brouzgou A, Lo Vecchio C, Aricò AS, Baglio V, Tsiakaras P	9
56-2022	Insights on a Ruddlesden-Popper phase as an active layer for a solid oxide fuel cell fed with dry biogas. Renewable Energy, 192, pp.784-792, 2022	Vecino-Mantilla S, Zignani SC, Vannier R-N, Aricò AS, Lo Faro M	9
1983 p11-1983	Characterization of iron distribution in various pumice grades and in the derived zeolites. Bulletin de Minéralogie, 106 (5), 571-584, 1983	Burriesci N, Giordano N, Cariati F, Petrera M, Bart JCI	8
1984 p15-1984	Polymer-supported catalysts-selective hydrogenation of acid chlorides over palladium/polyamide. Journal of Chemical Technology & Biotechnology, 34A (8), 416-422, 1984	Cum G, Gallo R, Galvagno S, Spadaro A, Vitarelli P	8
1994 129	Mechanistic evidence of the partial oxidation of methane to formaldehyde over silica based oxide catalysts by temperature programmed reaction studies. Catalysis Today, Vol. 21, 505-512, 1994	Arena F, Frusteri F, Miceli D, Parmaliana A, Giordano N	8
1998 224	Ageing effects of electrodes in ceramic fuel cells. Journal of the European Ceramic Society, 18 (2), 113-122, 1998	Antonucci V, Modica E, Monforte G, Aricò AS, Antonucci PL	8
2001 308	Mechanistic evidences of the synthesis of methyl formate from methane and air on oxide catalysts. Catalysis Today, vol.64, pp.97-102, 2001	Frusteri F, Arena F, Martra G, Coluccia S, Mezzapica A, Parmaliana A	8
2002 16-2002	Liquid-phase selective oxidation of propane on silica-supported Nafion catalysts. Journal of Natural Gas Chemistry, 11, 180-185, 2002	Frusteri F, Spadaro L, Espro C, Parmaliana A, Arena F	8
2007 15-2007	5 kWe LPG hydrogen generator for polymer electrolyte fuel cells: Momentum-based modeling of an autothermal reformer. Journal of Fuel Cell Science and Technology, 4 (2), 210-218, 2007	Cipiti F, Recupero V, Pino L, Vita A, Laganà M	8
2009 31-2009	Model-based analysis of reactor geometrical configuration on CO preferential oxidation performance. International Journal of Hydrogen Energy, 34, 4463-4474, 2009	Cipiti F, Pino L, Vita A, Laganà M, Recupero V	8
2012 24-2012	Stack operation using composite membrane-electrodes assemblies at 120°C. Journal of Fuel Cell Science and Technology, 9 (3), art. no. 031005, 2012	Giacoppo G, Carbone A, Gatto I, Saccà A, Pedicini R, Barbera O, Passalacqua E	8
2013 18-2013	Proton conducting membranes based on sulfonated PEEK-WC polymer for PEMFCs. International Journal of Hydrogen Energy, 38 (36), pp.16642-16648, 2013	Iulianelli A, Gatto I, Passalacqua E, Trotta F, Biasizzo M, Basile AB	8
2014 14-2014	Deactivation pattern of a "Model" Ni/MgO catalyst in the pre-reforming of n-hexane. Catalysts, 4 (2), pp.196-214, 2014	Trunfio G, Arena F	8
2017 26-2017	Influence of copper-based anode composition on intermediate temperature solid oxide fuel cells performance. Fuel Cells, 17 (5), pp.708-715, 2017	De Marco V, Iannaci A, Lo Faro M, Sglavo VM	8

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2018 15-2018	Methanol synthesis: A distributed production concept based on biogas plants. Chemical Engineering Transactions, 65, pp.409-414, 2018	Previtali D, Vita A, Bassani A, Italiano C, Amaral AF, Pirola C, Pino L, Palella A, Manenti F	8
2019 10-2019	Performance Improvement in Direct Methanol Fuel Cells by using CaTiO ₃ -δ additive at the cathode. Catalysts, 9 (12), art. no. 1017, 2019	Mazzapioda L, Lo Vecchio C, Aricò AS, Navarra MA, Baglio	8
2020 16-2020	Dry hydrogen production in a tandem critical raw material-free water photoelectrolysis cell using a hydrophobic gas-diffusion backing layer. Catalysts, 10 (11), art. no. 1319, 2020	Trocino S, Lo Vecchio C, Zignani SC, Carbone A, Saccà A, Baglio V, Gómez R, Aricò AS	8
20-2020	Microwave based regenerating permeable reactive barriers (MW-PRBs): Proof of concept and application for Cs removal. Chemosphere, 251, art. no. 126582, 2020	Falciglia PP, Gagliano E, Brancato V, Malandrino G, Finocchiaro G, Catalfo A, De Guidi G, Romano S, Roccaro P, Vagliasindi FGA	8
49-2020	The role of CuSn alloy in the co-electrolysis of CO ₂ and H ₂ O through an intermediate temperature solid oxide electrolyser. Journal of Energy Storage, 27, art. no. 100820, 2020	Lo Faro M, Oliveira da Silva W, Barrientos WV, Saglietti GGA, Zignani SC, Ticianelli EA, Antonucci V, Aricò AS	8
6-2020	Adsorption cold storage for mobile applications. Applied Sciences, 10 (6), art. no. 2044, 2020	Vasta S, Palomba V, La Rosa Dv, Bonanno A	8
2021 10-2021	Effect of germanium incorporation on the electrochemical performance of electrospun Fe ₂ O ₃ nanofibers-based anodes in sodium-ion batteries. Applied Sciences, 11 (4), art. no. 1483, 2021	Petrovičová B, Ferrara C, Brugnetti G, Ritter C, Fracchia M, Ghigna P, Pollastri S, Triolo C, Spadaro L, Ruffo R, Santangelo S	8
42-2021	Development of palladium catalysts modified by ruthenium and molybdenum as anode in direct ethanol fuel cell. Materials for Renewable and Sustainable Energy, 10 (1), art. no. 5, 2021	Fornazier Filho Y, da Cruz ACC, Pedicini R, Salgado JRC, Luz PP, Ribeiro J	8
2022 38-2022	An intelligent way to predict the building thermal needs: ANNs and optimization. Expert Systems with Applications, 191, art. no. 116293, 2022	D'Amico A, Ciulla G	8
1983 p14-1983	Catalytic oxydehydrogenation of ethane over Cd-exchanged zeolites. Annali di Chimica, 73, pp.403-410, 1983	Ottanà R, Parmaliana A, Zipelli C, Giordano N	7
1984 p10-1984	Partial hydrogenation of benzene over platinum supported catalysts. Reaction Kinetics and Catalysis Letters, 26 (1-2), 111-	Staiti P, Galvagno S, Antonucci PL, Rositani F, Vitarelli P	7
p12-1984	Iron distribution in some Italian tuffs. Materials Letters, 3 (1-2), 51-57, 1984	Sersale R, Burriesci N, Pino L, Bart JCI	7
1985 p3-1985	Economic evaluation of long distance hydrogen transmission by chemical closed loop cycle. International Journal of Hydrogen Energy, 10 (5), 325-331, 1985	Cacciola G, Recupero V, Giordano N	7
1988 25	Out of the cell performance of reforming catalysts for direct molten carbonate fuel cell (DMCFC). International Journal of Hydrogen Energy, 13 (12), 729-734, 1988	Parmaliana A, Frusteri F, Tsiakaras P, Giordano N	7
1993 92	Electrochemical deposition of iron sulphide thin films on tin oxide substrates. Materials Chemistry and Physics, 34 (3-4), 263-269, 1993	Aricò AS, Pieruccini M, Monforte G, Antonucci V, Giordano N, Antonucci PL	7
1998 213	The influence of the tape-casting process parameters on the geometric characteristics of SiC tapes. Materials Chemistry and Physics, 56 (2), 125-133, 1998	Corso G, Lo Casto S, Lombardo A, Freni S	7
2001 296	Polymer – silica composite membranes for direct methanol fuel cells. Studies in Surface Science and Catalysis, vol.140, pp.37-45, 2001	Antonucci V, Aricò AS, Modica E, Creti P, Staiti P, Antonucci PL	7

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2002 11-2002	Selective water sorbents for multiple applications. 12. Water sorption equilibrium at elevated temperature. Reaction Kinetics and Catalysis Letters, 76 (2), 295-301, 2002	Tokarev MM, Freni A, Restuccia G, Aristov YI	7
2003 11-2003	New sulfonated polysulfone co-polymer membrane for low temperature fuel cells. Journal of New Materials for Electrochemical Systems, 6, 211-215, 2003	Tavares AC, Pedicini R, Gatto I, Dubitsky Y, Zaopo A, Passalacqua E	7
1-2003	Innovative membrane-based catalytic process for environmentally friendly synthesis of oxygenates. Topics in Catalysis, 22 (1-2), 65-70, 2003	Espro C, Frusteri F, Arena F, Parmaliana A	7
2004 20-2004	INS investigation on disaccharide/H ₂ O mixtures. Journal of Molecular Liquids, 110, pp.11-13, 2004	Migliardo F, Magazù V, Migliardo M	7
30-2004	Ecologically sound adsorption chiller based on composite CaCl ₂ in silica gel: laboratory prototype. Chemistry for Sustainable Development, 12 (2), 211-216 (idem nella versione in russo su "Khimiya v interesah ustoichivogo razvitiya"), 2004	Restuccia G, Freni A, Vasta S, Tokarev MM, Aristov YI	7
2005 21-2005	Adsorption cooling machine based on the "calcium chloride in silica gel-water" working pair (libera traduzione del titolo dal russo). Kholodilnaya Tekhnika, n. 1, pp.2-6 (in russo), 2005	Restuccia G, Freni A, Vasta S, Tokarev MM, Aristov YI	7
2006 21-2006	Influence of operating conditions on the direct electrochemical oxidation of methane on cermet based anodes. Fuel Cells, 6 (2), 137-140, 2006	Sin A, Kopnin E, Dubitsky Y, Zaopo A, Aricò AS, Gullo LR, La Rosa Dn, Antonucci V	7
2009 22-2009	Enhancing effect of S and F moieties on the performance of Fenton system in the selective oxidation of propane. Catalysis Today, 141 (3-4), 306-310, 2009	Espro C, Marini S, Mendolia F, Frusteri F, Parmaliana A	7
2011 31-2011	Nafion electro-spun reinforced membranes for polymer electrolyte fuel cell. Journal of Nanoscience and Nanotechnology, 11 (10), 8768-8774, 2011	Carbone A, Saccà A, Busacca C, Frontera P, Antonucci PL, Passalacqua E	7
2012 13-2012	Synthesis, characterization and electrocatalytic activity of bi- and tri-metallic Pt-based anode catalysts for direct ethanol fuel cells. International Journal of Electrochemical Science, 7 (10), 9909-9919, 2012	D'Urso C, Bonesi A, Triaca WE, Castro Luna AM, Baglio V, Aricò AS	7
2013 54-2013	Ethanol steam reforming in a two-step process. Short-time feasibility tests. Energy & Fuels, 27 (3), pp.1570-1575, 2013	Vinci A, Chiodo V, Papageridis K, Cavallaro S, Freni S, Tsiakaras P, Bart JCI	7
2015 17-2015	Enhancement of oxygen reduction and mitigation of ionomer dry-out using insoluble heteropoly acids in intermediate temperature polymer-electrolyte membrane fuel cells. Energies, 8 (8), pp.7805-7817, 2015	Stassi A, Gatto I, Saccà A, Baglio V, Aricò AS	7
48-2015	Pure hydrogen production from steam reforming of bio-sources. International Journal of Membrane Science and Technology, 2 (2), pp.48-56, 2015	Bagnato G, Iulianelli A, Vita A, Italiano C, Laganà M, Fabiano C, Rossi C, Basile AB	7
2016 48-2016	Use of NaNiCl battery for mitigation of SOFC stack cycling in base-load telecommunication power system—a preliminary evaluation. Journal of Power Technologies, 96 (1), pp.63-71, 2016	Kupecki J, Motylinski K, Ferraro M, Sergi F, Zanon N	7
2017 37-2017	Synthesis and physical-chemical characterization of nanocrystalline Ta modified TiO ₂ as potential support of electrocatalysts for fuel cells and electrolyzers. International Journal of Hydrogen Energy, 42 (46), pp.28011-28021, 2017	D'Urso C, Bonura G, Aricò AS	7
43-2017	Functionalised hybrid Poly(ether ether ketone) containing MnO ₂ : Investigation of operative conditions for hydrogen sorption. International Journal of Hydrogen Energy, 42 (15), pp.10089-10098, 2017	Pedicini R, Sigalas M, Carbone A, Gatto I	7

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2019 13-2019	Enhancing oxygen reduction reaction catalytic activity using a sub-stoichiometric CaTiO ₃ -δ additive. ChemElectroChem, 6 (24), pp.5941-5945, 2019	Mazzapoda L, Lo Vecchio C, Paolone A, Aricò AS, Baglio V, Navarra MA	7
2020 29-2020	Investigation of NiFe-based catalysts for oxygen evolution in anion-exchange membrane electrolysis. Energies, 13 (7), art. no. 1720, 2020	Zignani SC, Lo Faro M, Trocino S, Aricò AS	7
81-2020	Totally-green fuels via CO ₂ hydrogenation. Bulletin of Chemical Reaction Engineering & Catalysis, 15 (2), pp.390-404, 2020	Spadaro L, Palella A, Arena F	7
2021 29-2021	Fuel cell fractional-order model via electrochemical impedance spectroscopy. Fractal and Fractional, 5 (1), art. no. 21, 2021	Caponetto R, Matera FV, Murgano E, Privitera E, Xibilia MG	7
3-2021	Tailoring manganese oxide catalysts for the total oxidation of pollutants in gas and liquid phase. Applied Catalysis A: General, 610, art. no. 117917, 2021	Arena F, Di Chio R, Palella A, Spadaro L, Frusteri L, Fazio B, Morandi S, Martra G	7
46-2021	Influence of ionomer content in the catalytic layer of MEAS based on Aquivion® ionomer. Polymers, 13 (21), art. no. 3832, 2021	Gatto I, Saccà A, Sebastián D, Baglio V, Aricò AS, Oldani C, Merlo L, Carbone A	7
47-2021	New insights into properties of methanol transport in sulfonated polysulfone composite membranes for direct methanol fuel cells. Polymers, 13 (9), art. no. 1386, 2021	Simari C, Nicotera I, Aricò AS, Baglio V, Lufrano F	7
2022 15-2022	Influence of nitrogen and sulfur doping of carbon xerogels on the performance and stability of counter electrodes in dye sensitized solar cells. Catalysts, 12 (3), art. no. 264, 2022	Alegre C, Sebastián D, Lázaro MJ, Girolamo M, Aricò AS, Baglio V	7
22-2022	Insights on the electrochemical performance of indirect internal reforming of biogas into a solid oxide fuel cell. Electrochimica Acta, 409, art. no. 139940, 2022	Santoro M, Di Bartolomeo E, Luisetto I, Aricò AS, Squadrito G, Zignani SC, Lo Faro M	7
46-2022	Electrospun MnCo ₂ O ₄ /carbon-nanofibers as oxygen electrode for alkaline zinc-air batteries. Journal of Energy Storage, 55, art. no. 105404, 2022	Alegre C, Busacca C, Di Blasi A, Cannilla C, Barbera O, Antonucci V, Lázaro MJ, Baglio V	7
1982 p10-1982	Influence of titanium suboxides on the photoelectrochemical efficiency of oxidized titanium electrodes. Berichte der Bunsen-Gesellschaft für Physikalische Chemie, 86 (7), 681-684, 1982	Antonucci V, Miceli P, Giordano N, Bart JCI	6
1983 p12-1983	Catalytic and reaction engineering aspects in the storage of hydrogen through the reversible dehydrogenation of cyclohexane. Indian Journal of Technology, 21 (9), 398-403, 1983	Giordano N, Cacciola G, Parmaliana A	6
p7-1983	Structural changes of Fe/Mo oxide catalysts in redox conditions. Applied Catalysis, 7 (2), 151-158, 1983	Bart JCI, Burriesci N, Gennaro A, Petrera M	6
1985 p7-1985	Rate-controlling step in the hydrothermal synthesis of zeolites from sardinian perlite. Materials Letters, 3 (5-6) 230-234, 1985	Antonucci PL, Crisafulli ML, Giordano N, Burriesci N	6
1995 A13	Oxidative coupling of methane over sodium doped V-Mo-O-SiO ₂ honeycomb catalysts. Catalysis Today, 24, 281-284, 1995	Ismagilov ZR, Parmaliana A, Frusteri F, Miceli D, Kirchanov AA, Barannik GB	6
1999 245	Electro-oxidation of CO on Pd black in phosphotungstic acid. Journal of Solid State Electrochemistry, 3, 205-209, 1999	Antonucci PL, Aricò AS, Modica E, Antonucci V	6
2003 16-2003	Idrogeno: il sistema energetico, le celle a combustibile, gli usi finali. Ecoenergie, anno II, n.5, pp.2-32, ottobre, 2003	Cacciola G, Orecchini F, Vellone R	6
2006 27-2006	Influence of catalyst utilisation on the electrochemical behaviour of low temperature DMFCs. Journal of New Materials for Electrochemical Systems, vol.9, pp.41-46, 2006	Baglio V, Di Blasi A, Modica E, Creti P, Antonucci V, Aricò AS	6

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2007 16-2007	Polymer electrolyte fuel cell stacks at CNR-ITAE: State of the art. Journal of Fuel Cell Science and Technology, vol.4, pp.350-356, 2007	Squadrito G, Barbera O, Giacoppo G, Urbani F, Passalacqua E	6
2012 15-2012	The influence of physico-chemical properties of bare titania powders obtained from various synthesis routes on their photo-electrochemical performance. International Journal of Electrochemical Science, 7 (3), 2254-2275, 2012	Denaro T, Baglio V, Girolamo M, Neri Gv, Deorsola F, Ornelas R, Matteucci F, Antonucci V, Aricò AS	6
38-2012	Hydriding kinetics of LaNi ₅ using nucleation-growth and diffusion models. Journal of New Materials for Electrochemical Systems, 15 (4), 293-300, 2012	Payá J, Freni A, Corberán JM, Compañ V	6
39-2012	Catalytic behaviour of MnZrO _x system for heterogeneous biodiesel production. The Open Renewable Energy Journal, 5, pp.32-40,	Cannilla C, Bonura G, Arena F, Frusteri F	6
2017 68-2017	How the use of solvent affects the mechanical behavior of polyester resin/carbon nanotube nanocomposites. Journal of Composite Materials, 51 (13), pp.1797-1806, 2017	Galtieri G, Visco A, Iannazzo D, Pistone A, Brancato V	6
2020 4-2020	Modified silicone-SAPO34 composite materials for adsorption thermal energy storage systems. Applied Sciences, 10 (23), art. no. 8715, 2020	Calabrese L, De Antonellis S, Vasta S, Brancato V, Freni A	6
2021 15-2021	Water splitting with enhanced efficiency using a nickel-based co-catalyst at a cupric oxide photocathode. Catalysts, 11 (11), art. no. 1363, 2021	Lo Vecchio C, Trocino S, Giacoppo G, Barbera O, Baglio V, Díez-García MI, Contreras M, Gómez R, Aricò AS	6
2022 29-2022	Experimental validation and numerical simulation of a hybrid sensible-latent thermal energy storage for hot water provision on ships. Energies, 15 (7), art. no. 2596, 2022	Frazzica A, Manzan M, Palomba V, Brancato V, Freni A, Pezzi A, Vaglieco BM	6
44-2022	Graphitic carbon nitride/zinc oxide composite electrodes for all-solid-state photo-supercapacitor with ion exchange membrane separator. Journal of Energy Storage, 55, art. no. 105784, 2022	Altat CT, Colak TO, Lufrano F, Unal GS, Sankir ND, Sankir M	6
48-2022	The impact of carbonation on hydroxide diffusion in nano-confined anion exchange membranes. Journal of Materials Chemistry A: Materials for energy and sustainability, 10 (20), pp.11137-11149, 2022	Zelovich T, Simari C, Nicotera I, Dekel DR, Tuckerman ME	6
51-2022	Different approaches to obtain functionalized alumina as additive in polymer electrolyte membranes. Journal of Solid State Electrochemistry, 26 (1), pp. 17-27, 2022	Mazzapoda L, Sgambetterra M, Tsurumaki A, Navarra MA	6
1983 p4-1983	Influence of temperature on hydrothermal synthesis of zeolites from Lipari pumice. Materials Chemistry and Physics, 8 (4), 305-314, 1983	Burriesci N, Saija LM, Ottanà R, Giordano N, Bart JCI	5
1987 7	Pompe di calore ad adsorbimento di vapor d'acqua su zeolite. La Termotecnica, pp.23-30, Gennaio, 1987	Cacciola G, Recupero V, Restuccia G	5
1989 29	Performance and endurance of a molten carbonate fuel cell at 923 K. International Journal of Hydrogen Energy, 14 (5), 339-343,	Giordano N, Freni S, Cavallaro S, Carbonaro P	5
1991 A11	Influence of alkali metals (Li and K) addition to Ni/MgO catalyst. Studies in Surface Science and Catalysis, 68, 489-492, 1991	Parmaliana A, Arena F, Frusteri F, Mondello N, Giordano N	5
1993 89	Natural pyrite-based electrodes for photoelectrochemical applications. Electrochimica Acta, 38 (1), 123-128, 1993	Antonucci V, Aricò AS, Ielo I, Modica E, Candiano G, Monforte G, Giordano N, Antonucci PL	5
96	Macchine ad adsorbimento a ciclo rigenerativo. La Termotecnica, pp.81-90, Aprile, 1993	Cacciola G, Restuccia G, Cammarata G, Marletta L	5
2000 270	An electrode-kinetic investigation of CO and CO/H ₂ oxidation in phosphotungstic acid (H ₃ PW ₁₂ O ₄₀) electrolyte. Journal of New Materials for Electrochemical Systems, 3, pp.207-220, 2000	Aricò AS, Modica E, Creti P, Antonucci PL, Antonucci V	5

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2001 303	Partial oxidation of methane to formaldehyde on Fe-doped silica catalysts. Studies in Surface Science and Catalysis, vol.136, pp.531-536, 2001	Arena F, Frusteri F, Fierro JLG, Parmaliana A	5
304	A new polymorph of the heteronuclear cluster $Ru_4Pt_2(CO)_{18}$. Journal of Cluster Science, 12 (1), 293-301, 2001	Antonucci V, Aricò AS, Calderazzo F, Labella L, Marchetti F	5
2011 18-2011	Implementation and optimization of the HySyLab DMFC single cell test station. International Journal of Hydrogen Energy, 36 (13), 8082-8087, 2011	Gallo JMR, Icardi UA, Baglio V, Coralli A, Graizzaro A	5
2013 36-2013	Electrospinning fabrication of polyvinyl alcohol and polyvinyl pyrrolidone/ $Sm(NO_3)_3-Sm_2O_3$ composites nanofibers. Journal of Composite Materials, 47 (13), pp.1575-1581, 2013	Frontera P, Busacca C, Lo Faro M, Antonucci PL	5
2016 50-2016	A hybrid electric fuel cell minibus: Drive test. World Electric Vehicle Journal, 8 (1), pp.131-138, 2016	Andaloro L, Micari S, Napoli G, Polimeni A, Antonucci V	5
2019 21-2019	Convection heat transfer coefficients in thermoacoustic heat exchangers: An experimental investigation. Energies, 12 (23), art. no. 4525, 2019	Piccolo A, Sapienza A, Guglielmino C	5
49-2019	Thermochemical investigation on a novel sodium-metal-halide battery configuration: Experimental and FEM model results. Journal of Energy Storage, 25, art. no. 100818, 2019	D'Urso C, Briguglio N, Bonanno A, Ferraro M, Antonucci V, Vasta S	5
70-2019	The effect of zeolite features on catalytic performance of CuZnZr/zeolite hybrid catalysts in one-pot CO_2 -to-DME hydrogenation. Tecnica Italiana-Italian Journal of Engineering Science, 63 (2-4), pp.257-262, 2019	Catizzone E, Bonura G, Migliori M, Braccio G, Frusteri F, Giordano G	5
2020 18-2020	Sucrose-assisted solution combustion synthesis of doped strontium ferrate perovskite-type electrocatalysts: Primary role of the secondary fuel. Catalysts, 10 (1), art. no. 134, 2020	Tummino ML, Liotta LF, Magnacca G, Lo Faro M, Trocino S, Zignani SC, Aricò AS, Deganello F	5
2021 34-2021	Towards an integrated design of renewable electricity generation and storage systems for NZEB use: A parametric analysis. Journal of Building Engineering, 44, art. no. 103288, 2021	Tumminia G, Sergi F, Aloisio D, Longo S, Cusenza MA, Guarino F, Cellura S, Ferraro M	5
37-2021	Dynamic modelling of adsorption systems: A comprehensive calibrated dataset for heat pump and storage applications. Journal of Energy Storage, 33, art. no. 102148, 2021	Palomba V, Nowak S, Dawoud B, Frazzica A	5
39-2021	Effect of 1-octanethiol as an electrolyte additive on the performance of the iron-air battery electrodes. Journal of Solid State Electrochemistry, 25 (1), pp.225-230, 2021	McKerracher RD, Figueredo-Rodriguez HA, Dimogiannis K, Alegre C, Villanueva-Martinez NI, Lázaro MJ, Baglio V, Aricò AS, Ponce de León C	5
8-2021	Life cycle assessment of an innovative hybrid energy storage system for residential buildings in continental climates. Applied Sciences, 11 (9), art. no. 3820, 2021	Llantoy N, Zsembinski G, Palomba V, Frazzica A, Dallapiccola M, Trentin F, Cabeza LF	5
2022 25-2022	Effect of WLTP CLASS 3B driving cycle on lithium-ion battery for electric vehicles. Energies, 15 (18), art. no. 6703, 2022	Micari S, Foti S, Testa A, De Caro S, Sergi F, Andaloro L, Aloisio D, Leonardi SG, Napoli	5
43-2022	Reinforced short-side-chain Aquivion® membrane for proton exchange membrane water electrolysis. International Journal of Hydrogen Energy, 47 (35), pp. 15557-15570, 2022	Siracusano S, Pantò F, Tonella S, Oldani C, Aricò AS	5
49-2022	Binding ability of L-carnosine towards Cu^{2+} , Mn^{2+} and Zn^{2+} in aqueous solution. Journal of Molecular Liquids, 368, art. no. 120772, 2022	Abate C, Aiello D, Cordaro Ms, Giuffrè O, Napoli A, Foti C	5

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1985 p11-1985	Role of chlorine on deactivation by coking of Pt/honeycomb catalysts during dehydrogenation of methylcyclohexane. <i>Annali di Chimica</i> , 75, 441-448, 1985	Frusteri F, Barcellona V, Mento G, Parmaliana A, Giordano N	4
p13-1985	Mössbauer studies on industrial catalysts. <i>La Chimica e l'Industria</i> , Anno 67, 494-499, 1985	Burriesci N, Petrera M, Gennaro A	4
1988 18	Coked reforming catalysts: self-regeneration by residual hydrogen. <i>Reaction Kinetics and Catalysis Letters</i> , 36 (1), 39-46,	Frusteri F, Tsiakaras P, Parmaliana A, Mezzapica A, Giordano N	4
1993 111	Synergistic promotion of electrooxidation of methanol on carbon-supported Pt-Sn catalysts. <i>Bulletin of Electrochemistry</i> , 9 (11-12), 614-617, 1993	Aricò AS, Antonucci V, Giordano N, Shukla AK, Ravikumar MK	4
1997 194	Partial oxidation of methane to formaldehyde on bulk and silica supported MoO ₃ and V ₂ O ₅ catalysts: Surface features and reaction mechanism. <i>Studies in Surface Science and Catalysis</i> , Vol. 107, pp.23-28, 1997	Parmaliana A, Arena F, Frusteri F, Giordano N, Scurrill MS, Sokolovskii VD	4
2007 3-2007	Activity and stability of iron based catalysts in advanced Fischer-Tropsch technology via CO ₂ -rich syngas conversion. <i>Studies in Surface Science and Catalysis</i> , vol.167, pp.49-54, 2007	Spadaro L, Arena F, Bonura G, Di Blasi O, Frusteri F	4
2011 22-2011	Factors controlling the energy of nitrogen monolayer coverage on high surface area catalyst oxide carriers. <i>Journal of Physical Chemistry C: Nanomaterials and interfaces</i> , 115 (50), 24728-24733, 2011	Arena F, Ferrante F, Spadaro L, Prestianni A, Raneri A, Duca D	4
35-2011	An electrochemical study of a solid oxide fuel cell stack operating at intermediate temperature for distributed generation applications. <i>Green: The International Journal of Sustainable Energy Conversion and Storage</i> , 1 (2), 233-240, 2011	Brunaccini G, Dispenza G, Ferraro M, Antonucci V, Modena S	4
2018 21-2018	Metal complexes as self-indicating titrants for acid-base reactions in chloroform. <i>Inorganic Chemistry</i> , 57 (4), pp.2175-2183, 2018	Giannetto A, Cordaro Ms, Campagna S, Lanza S	4
22-2018	Modeling, realization and test on field of a fuel cell - Na/NiCl ₂ battery hybrid system as a base transceiver station power supply. <i>Instrumentation, Mesure, Métrologie</i> , 17 (3), pp.423-442, 2018	Aloisio D, Ferraro M, Brunaccini G, Sergi F, Randazzo N, Dispenza G, Antonucci V	4
58-2018	A useful Excel-based program for kinetic model discrimination. <i>ChemEngineering</i> , 2 (4), 57, 2018	Pino L, Recupero V, Hernández A	4
2020 22-2020	Hyperthermophile biofilms of <i>Thermotoga neapolitana</i> on different materials and electrostimulated: SEM micrographs and chemical data of the glucose fermentation in electrochemical reactors. <i>Data in Brief</i> , 33, art. no. 106403, 2020	Squadrito G, Cristiani P, d'Ippolito G, Tucci M, Esercizio N, Sardo A, Vastano M, Lanzilli M, Fontana A	4
43-2020	Synthesis and characterization of graphite composite foams for oil spill recovery application. <i>Journal of Composites Science</i> , 4 (4), art. no. 154, 2020	Brancato V, Piperopoulos E, Mastronardo E, Calabrese L, Milone C, Proverbio E	4
56-2020	Composite sulfonated polyether-ether ketone membranes with SBA-15 for electrochemical energy systems. <i>Materials</i> , 13 (7), art. no. 1570, 2020	Rico-Zavala A, Pineda-Delgado JL, Carbone A, Saccà A, Passalacqua E, Gurrola MP	4
64-2020	Novel polymeric composite TPPS/s-PEEK membranes for low relative humidity PEFC. <i>Polymers</i> , 12 (6), art. no. 1431, 2020	Carbone A, Castriciano MA, Monsù Scolaro L, Gatto I	4
67-2020	Quantitative evaluation of eggs freshness using flash thermography. <i>Quantitative InfraRed Thermography Journal</i> , 17	Freni F, Quattrocchi A, Piccolo SA, Montanini R	4
78-2020	Experimental activities on a PEFC based powertrain for a hybrid electric minibus. <i>International Journal of Hydrogen Energy</i> , 45 (58), pp.34011-34023, 2020	Andaloro L, Napoli G, Micari S, Dispenza G, Sergi F, Fragiaco P, Antonucci V	4
2021 16-2021	Focus on materials for sulfur-resistant catalysts in the reforming of biofuels. <i>Catalysts</i> , 11 (9), art. no. 1029, 2021	Frontera P, Antonucci PL, Macario A	4

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2021 33-2021	Equilibrium vapor pressure properties for absorbent and adsorbent materials. International Journal of Refrigeration, 124, pp.134-166, 2021	Yang Z, Gluesenkamp KR, Frazzica A	4
53-2021	Life cycle assessment (LCA) of an innovative compact hybrid electrical-thermal storage system for residential buildings in mediterranean climate. Sustainability, 13 (9), art. no. 5322, 2021	Zsembinszki G, Llantoy N, Palomba V, Frazzica A, Dallapiccola M, Trentin F, Cabeza LF	4
2022 36-2022	An integrated building energy simulation early – Design tool for future heating and cooling demand assessment. Energy Reports, 8, pp.10881-10894, 2022	Guarino F, Tumminia G, Longo S, Cellura M, Cusenza MA	4
39-2022	Speciation study on O-phosphorylethanolamine and O-phosphorylcholine: Acid–base behavior and Mg ²⁺ interaction. Frontiers in Chemistry, 10, art. no. 864648, 2022	Aiello D, Cordaro Ms, Napoli A, Foti C, Giuffrè O	4
58-2022	RhNi/CeO ₂ catalytic activation of alumina open cell foams by dip-spin coating for the CO ₂ methanation of biogas. Surface and Coatings Technology, 441, art. no. 128563, 2022	Balzarotti R, Drago Ferrante G, Italiano C, Laganà M, Francis LF, Vita A, Cristiani C, Pino L	4
1983 p1-1983	Liquid-solid interaction in granular Lipari pumice. Materials Chemistry and Physics, 8 (2), 147-152, 1983	Vitarelli P, Cavallaro S, Zipelli C, Ottanà R, Bart JCI	3
p18-1983	The role of alkali and alkaline earth cations in the oxidation of propene over molybdates. Zeitschrift für Physikalische Chemie, Neue Folge, 134 (2), 243-249, 1983	Maggiore R, Galvagno S, Bart JCI, Giannetto A, Toscano G	3
1984 p2-1984	Isomerization-disproportionation of m-xylene over dealuminated mordenites. Reaction Kinetics and Catalysis Letters, 25 (1-2), 79-82, 1984	Vitarelli P, Cavallaro S, Ottanà R, Saija LM, Giordano N	3
1986 p12-1986	Photoelectrochemical behaviour of mixed TiNb oxides electrodes: I. Influence of ZPC on the FBp value and mechanism of O ₂ evolution. Solar Energy Materials, 14, 483-498, 1986	Antonucci V, Passalacqua E, Antonucci PL, Giordano N	3
p5-1986	An ESCA study of platinum-tin supported on nylon. Gazzetta chimica italiana, 116, 265-270, 1986	Galvagno S, Munro HS, Pietropaolo R, Poltarzewski Z, Recca A	3
p8-1986	Thermally oxidized iron electrodes for photoelectrochemical application. Berichte der Bunsen-Gesellschaft für Physikalische Chemie, 90, 828-833, 1986	Antonucci V, Passalacqua E, Giordano N	3
1987 3	Low temperature latent heat storage with quasi-eutectic mixtures containing Ca(NO ₃) ₂ ·4H ₂ O. Journal of Solar Energy Engineering - Transactions of the ASME, Vol.109, 176-178, 1987	Vaccarino C, Cali V, Parmaliana A, Frusteri F	3
1990 53	Energia del futuro. Materiali adsorbenti zeolitici da utilizzarsi in pompe di calore ad adsorbimento: preparazione e caratterizzazione. Tecnologie Chimiche, 11/90, 160-164, 1990	Mercadante L, Cacciola G, Giordano N	3
1994 116	Surface acid-base characterization of Pt/C catalysts for the electrochemical oxidation of methanol. Materials Engineering, 5 (1), 81-101, 1994	Aricò AS, Antonucci V, Candiano G, Morana A, Giordano N, Simonov PA, Antonucci PL	3
122	Experimental and theoretical study of constant-volume adsorption process. Energy, 19 (9), 961-965, 1994	Hajji A, Cacciola G, Restuccia	3
1995 142	Polycrystalline iron sulphide-based semiconductors for solar energy conversion. Advanced Performance Materials, Vol. 2, pp.145-159, 1995	Antonucci PL, Aricò AS, Giordano N, Antonucci V	3
2000 264	Synthesis and properties of thin film ZnCuTe semiconductors. Materials Technology & Advanced Performance Materials, 15 (3), 197-201, 2000	Antonucci PL, Urbani F, Aricò AS, Monforte G, Antonucci V	3

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2005 1-2005	Mesoporous ceria preparation by templating agents. Materials Technology & Advanced Performance Materials, vol.20, pp.18-23, 2005	Pino L, Vita A, Cordaro Mn, Cipiti F, Laganà M, Recupero V	3
2018 3-2018	Ceramic monolith- and foam-structured catalysts via in-situ combustion deposition for energetic applications. Annales de Chimie: Science des Matériaux, 42 (3), pp.405-418, 2018	Italiano C, Pino L, Laganà M, Vita A	3
4-2018	Hydrogen production from residual biomass via air-steam gasification for a bioenergy-based economy in Sicily. Annales de Chimie: Science des Matériaux, 42 (3), pp.441-452, 2018	Prestipino M, Chiodo V, Maisano S, Brusca S, Urbani F, Galvagno A	3
55-2018	Study and development of innovative materials for hydrogen storage activity. Revue des Composites et des Matériaux Avancés, 28 (3), pp.323-332, 2018	Gatto MF, Pedicini R, Carbone A, Saccà A, Matera FV, Gatto I	3
2020 9-2020	Experimental study of a fin-and-tube heat exchanger working as evaporator in subatmospheric conditions. Applied Thermal Engineering, 175, art. no. 115336, 2020	Palomba V, Frazzica A	3
2021 17-2021	The effect of Ni-modified LSCFO promoting layer on the gas produced through co-electrolysis of CO ₂ and H ₂ O at intermediate temperatures. Catalysts, 11 (1), art. no. 56, 2021	Lo Faro M, Zignani SC, Antonucci V, Aricò AS	3
2022 14-2022	Bifunctional CuO-Ag/KB catalyst for the electrochemical reduction of CO ₂ in an alkaline solid-state electrolysis cell. Catalysts, 12 (3), art. no. 293, 2022	Zignani SC, Lo Faro M, Palella A, Spadaro L, Trocino S, Lo Vecchio C, Aricò AS	3
16-2022	PdAg/C electrocatalysts synthesized by thermal decomposition of polymeric precursors improve catalytic activity for ethanol oxidation reaction. Catalysts, 12 (1), art. no. 96, 2022	Fornazier Filho Y, da Cruz ACC, Pedicini R, Salgado JRC, Rodrigues RV, Luz PP, Garcia-Segura S, Ribeiro J	3
18-2022	Determination of the electrochemically active surface area by CO and hydrogen of PtSnRuTa/C-based electrocatalysts and their relationship with catalytic activity against alcohol oxidation. Chemical Papers, 76 (7), pp.4597-4613, 2022	Queiroz MAR, Vasconcellos MLS, Ribeiro MA, Luz PP, de Moura Souza F, dos Santos MC, Guimarães MCC, Salgado JRC, Pedicini R, Ribeiro J	3
24-2022	Impact of geometry on a thermal-energy storage finned tube during the discharging process. Energies, 15 (21), art. no. 7950, 2022	Privitera E, Caponetto R, Matera FV, Vasta S	3
28-2022	Organic salt hydrate as a novel paradigm for thermal energy storage. Energies, 15 (12), art. no. 4339, 2022	Mastronardo E, La Mazza E, Palamara D, Piperopoulos E, Iannazzo D, Proverbio E, Milone C	3
34-2022	Pressure- and temperature-initiated adsorption of water vapour in a finned flat-tube adsorber. Energy Conversion and Management, 258, art. no. 115487, 2022	Girnik IS, Lombardo W, Sapienza A, Aristov YI	3
45-2022	Characterization and testing of cathode materials for high temperature sodium nickel-iron-chloride battery. Journal of Energy Storage, 55, art. no. 105503, 2022	Frusteri L, Leonardi SG, Samperi M, Antonucci V, D'Urso C	3
52-2022	Physico-chemical modifications affecting the activity and stability of Cu-based hybrid catalysts during the direct hydrogenation of carbon dioxide into dimethyl-ether. Materials, 15 (21), art. no. 7774, 2022	Salomone F, Bonura G, Frusteri F, Castellino M, Fontana M, Chiodoni AM, Russo N, Pirone R, Bensaid S	3
57-2022	Analysis of the potential of solar-assisted heat pumps: Technical, market, and social acceptance aspects. Solar RRL, 6 (8), art. no. 2200037, 2022	Palomba V, Dino GE, Frazzica A	3
8-2022	Evaluation of ad/desorption dynamics of S-PEEK/zeolite composite coatings by T-LTJ method. Applied Thermal Engineering, 208, art. no. 118262, 2022	Palamara D, Palomba V, Calabrese L, Frazzica A	3
1981 p2-1981	Trasporteremo energia chimica con reazioni chimiche. Tecnologie Chimiche, anno I, n. 6, pp.56-62, 1981	Cacciola G	2

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1982 p13-1982	Mechanisms of n-heptane and n-octane aromatization over platinum-alumina reforming catalyst. <i>Annali di Chimica</i> , 72, pp.585-596, 1982	Maggiore R, Galvagno S, Toscano G, Crisafulli C, Spina S	2
1986 p16-1986	Catalytic aspects in fuel cell technology. <i>Chemical Age of India</i> , 37 (5), 345-350, 1986	Antonucci PL, Romeo F, Minutoli M, Antonucci V, Giordano N	2
p17-1986	A kinetic study of cyclohexane dehydrogenation on Pt-monolithic catalyst. <i>Journal of Chemical Technology & Biotechnology</i> , 36 (3), 122-128, 1986	El Sawi M, Frusteri F, Parmaliana A, Formisano B, Giordano N	2
1989 34	The effect of reduction on the adsorptive behaviour of the TiO ₂ /water interface. <i>Adsorption Science & Technology</i> , 6 (2), 52-63, 1989	Antonucci V, Aricò AS, Giordano N, Antonucci PL	2
1990 A10	Ethylene oxidation over hydrophobic thin layer catalysts. New developments in selective oxidation. <i>Studies in Surface Science and Catalysis</i> , 55, 733-738, 1990	Frusteri F, Iannibello A, Parmaliana A, Cannizzaro A, Giordano N	2
1991 56	Effect of sintering temperature on the surface properties of PTFE bound carbon electrodes. <i>Bulletin of Electrochemistry</i> , 7 (2), 91-94, 1991	Alderucci V, Recupero V, Passalacqua E, Parmigiani F, Cocke DL, Giordano N	2
60	Corrosion behaviour of screen-printed pyrite (FeS ₂) electrodes. <i>Bulletin of Electrochemistry</i> , 7 (5), 207-214, 1991	Aricò AS, Antonucci V, Antonucci PL, Monforte G, Ferrara S, Morana A, Ielo I, Modica E, Giordano N	2
1992 85	Highly dispersed platinum honeycomb reforming catalysts: sintering behaviour and activity. <i>Reaction Kinetics and Catalysis Letters</i> , 48 (1), 315-323, 1992	Frusteri F, Parmaliana A, Mezzapica A, Chuvilin AL, Tsiakaras P, Giordano N	2
86	Carbon black-supported platinum electrocatalyst for methanol oxidation: cyclovoltammetric analysis. <i>Bulletin of Electrochemistry</i> , 8 (10), 493-496, 1992	Aricò AS, Antonucci V, Candiano G, Giordano N, Antonucci PL	2
1994 130	Methane partial oxidation to formaldehyde on silica supported oxide catalysts: role of MoO ₃ and V ₂ O ₅ . <i>Studies in Surface Science and Catalysis</i> , 81, 491-496, 1994	Parmaliana A, Sokolovskii VD, Scurrill MS, Miceli D, Arena F, Frusteri F	2
2000 278	Kinetic and mechanistic study of the partial oxidation of methane to formaldehyde on silica catalysts. <i>Studies in Surface Science and Catalysis</i> , 130, pp.3585-3590, 2000	Arena F, Frusteri F, Mezzapica A, Parmaliana A	2
2001 309	Zeolite compact layers bound to metal support for thermally efficient adsorption heat pump/refrigeration systems. <i>Materials Engineering</i> , 3 (3), 315-328, 2001	Restuccia G, Freni A, Vita A, Cacciola G	2
2004 27-2004	Photon correlation spectroscopy and small angle neutron scattering studies on fullerene in solution. <i>Diamond and Related Materials</i> , 13, 1333-1336, 2004	Branca C, Magazù V, Mangione A, Migliardo F, Romeo G	2
2005 19-2005	Sistema di gestione di un generatore di idrogeno. <i>Automazione e Controllo</i> , anno LIII, n.7 (lug/ag), pp.105-109, 2005	Cipiti F, Laganà M, Recupero V	2
2009 38-2009	Thermally driven heat pumps in future energy systems. <i>IEA Heat Pump Centre Newsletter</i> , Vol. 27 (4), 13-15, 2009	Restuccia G	2
2010 20-2010	Diesel-fuel improver production via novel heterogenized solid-acid catalysts. <i>Chemical Engineering Journal</i> , 161 (3), 409-415, 2010	Spadaro L, Arena F, Di Blasi O, Bonura G, Frusteri F	2
2015 25-2015	Performance assessment of an integrated PEFC and an hydrogen storage device based on innovative material. <i>International Journal of Hydrogen Energy</i> , 40 (48), pp.17388-17393, 2015	Pedicini R, Matera FV, Giacoppo G, Gatto I, Passalacqua E	2
2017 27-2017	SOFC's anode protection by bias current application: First experimental results on a short stack. <i>Fuel Cells</i> , 17 (5), pp.716-722, 2017	Brunaccini G, Ferraro M, Squadrito G, Di Giovanni L, Antonucci V	2

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2019 14-2019	Nano-restructuring of carbon materials under high temperature heat treatment for environmental application and energy storage. Chemical Engineering Transactions, 73, pp.91-96, 2019	Apicella B, Russo C, Di Blasi A, Mennella V, Antonucci V, Senneca O, Cerciello F, Ciajolo	2
15-2019	Preliminary investigation on regeneration of simulated radionuclide-contaminated activated carbons by microwave irradiation. Chemical Engineering Transactions, 74, pp.373-378,	Gagliano E, Falciglia PP, Brancato V, Finocchiaro G, Catalfo A, De Guidi G, Romano S, Roccaro P, Vagliasindi FGA	2
2020 79-2020	Clean syn-fuels via hydrogenation processes: Acidity–activity relationship in o-xylene hydrotreating. ChemEngineering, 4 (1), art. no. 4, 2020	Palella A, Barbera K, Arena F, Spadaro L	2
2021 40-2021	Polydopamine coated CeO ₂ as radical scavenger filler for Aquivion membranes with high proton conductivity. Materials, 14 (18), art. no. 5280, 2021	D'Amato R, Donnadio A, Battocchio C, Sassi P, Pica M, Carbone A, Gatto I, Casciola M	2
41-2021	Effect of the microstructure of the semiconductor support on the photocatalytic performance of the Pt-PtO _x /TiO ₂ catalyst system. Materials, 14 (4), art. no. 943, 2021	Majrik K, Pászti Z, Korecz L, Mihály J, May Z, Németh P, Cannilla C, Bonura G, Frusteri F, Tompos A, Tálás E	2
43-2021	Evaluation of electrospun self-supporting paper-like fibrous membranes as oil sorbents. Membranes, 11 (7), art. no. 515, 2021	Folino A, Triolo C, Petrovičová B, Pantò F, Zema DA, Santangelo S	2
7-2021	A fast-reduced model for an innovative latent thermal energy storage for direct integration in heat pumps. Applied Sciences, 11 (19), art. no. 8972, 2021	Palomba V, Frazzica A	2
2022 11-2022	Synthesis and photophysics characterization of boronic styryl [sic] and distyryl BODIPYs for water-based dye-sensitized solar cells. Biomimetics, 7 (3), art. no. 110, 2022	Nastasi F, Mineo PG, Barichello J, La Ganga G, Di Marco G, Calogero G, Cordaro Ms	2
1-2022	Effect of holmium oxide loading on nickel catalyst supported on yttria-stabilized zirconia in methane dry reforming. ACS Omega, 7 (48), pp.43700-43709, 2022	Al-Fatesh AS, Ibrahim AA, Fakeeha AH, Albaqi F, Anojaidi K, Albinali I, Abasaed AE, Frusteri F, Mahmud SL, Abu-Dahrieh JK, Bagabas AA	2
27-2022	Solar-driven sorption system for seasonal heat storage under optimal control: Study for different climatic zones. Energies, 15 (15), art. no. 5604, 2022	Crespo A, Fernández C, de Gracia A, Frazzica A	2
31-2022	Testing of a falling-film evaporator for adsorption chillers. Energies, 15 (5), art. no. 1709, 2022	Toppi T, Villa T, Vasta S, Mittelbach W, Freni A	2
37-2022	Hydrocarbons removal from synthetic bilge water by adsorption onto biochars of dead Posidonia oceanica. Environmental Science and Pollution Research, 29 (60), pp.90231-90247, 2022	Cataldo S, Muratore N, Giannici F, Bongiorno D, Chiodo V, Maisano S, Pettignano A	2
40-2022	Improving the air permeability of ventilated roofs. Future Cities and Environment, 8 (1), art. no. 6, 2022	Baccega E, Bortoloni M, Bottarelli M, Dino GE, Zannoni G	2
61-2022	Phase change slurries for cooling and storage: An overview of research trends and gaps. Energies, 15 (19), art. no. 6873, 2022	Borri E, Hua N, Sciacovelli A, Wu D, Ding Y, Li Y, Brancato V, Zhang Y, Frazzica A, Li W, Yu Z, Milian YE, Ushak S, Grageda M, Cabeza LF	2
7-2022	Morphological observation of LiCl deliquescence in PDMS-based composite foams. Applied Sciences, 12 (3), art. no. 1510, 2022	Mastronardo E, Piperopoulos E, Palamara D, Frazzica A, Calabrese L	2
1983 p8-1983	Selective hydrogenation of benzoyl chloride over supported palladium catalysts. Reaction Kinetics and Catalysis Letters, 22 (3-4), 383-389, 1983	Poltarzewski Z, Galvagno S, Staiti P, Antonucci PL, Rositani F, Giordano N	1

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1986 p4-1986	On the induction period in the transformation of methanol over ZSM catalyst. <i>Annali di Chimica</i> , 76, 483-493, 1986	Maggiore R, Galvagno S, Crisafulli C, Giannetto A	1
p6-1986	Dispersy effect of platinum supported on honeycomb carrier on its activity in benzene hydrogenation. <i>Reaction Kinetics and Catalysis Letters</i> , 32 (1), 199-204, 1986	Parmaliana A, Alekseev OS, Nesterov GA, Ryndin YA, Giordano N	1
1988 19	Prospects for industrial exploitation of pumice for synthesis of zeolites. <i>La Chimica e l'Industria</i> , Anno 70 (1-2), 66-69, 1988	Recupero V, Pino L, Giordano N, Triscari M	1
27	Catalytic activity of novel Pt based high surface area honeycomb supports. <i>Studies in Surface Science and Catalysis</i> , 38, 43-50, 1988	Parmaliana A, Iannibello A, Frusteri F, Tsiakaras P, Giordano N	1
1990 45	Mixed semiconductor materials: photoelectrochemical behavior of (TiNb) _{ox} at the isoelectric point of the interface. <i>International Journal of Hydrogen Energy</i> , 15, 557-562, 1990	Antonucci V, Aricò AS, Antonucci PL, Giordano N	1
1998 230	Partial oxidation of light paraffins on supported superacid catalytic membranes. <i>Studies in Surface Science and Catalysis</i> , Vol. 119, pp.447-452, 1998	Frusteri F, Arena F, Espro C, Mondello N, Parmaliana A	1
235	Il punto sulle celle a combustibile. <i>La Chimica e l'Industria</i> , Anno 80, n.8, pp.1057-1061, 1998	Cacciola G	1
A15	The use of methane in molten carbonate fuel cells. <i>Studies in Surface Science and Catalysis</i> , vol.119, pp.53-58, 1998	Freni S, Staiti P, Calogero G, Minutoli M	1
2000 277	Two-step synthesis of methyl formate from CH ₄ and air via formaldehyde: surface reactivity of oxide catalysts towards HCHO. <i>Studies in Surface Science and Catalysis</i> , 130, pp.3591-	Martra G, Arena F, Coluccia S, Frusteri F, Mezzapica A, Parmaliana A	1
2001 295	Structural investigation of electrochemically synthesized ZnCuTe thin films. <i>Journal of Solid State Electrochemistry</i> , vol.6, pp.16-20, 2001	Antonucci PL, Aricò AS, Scardi P, Antonucci V	1
2015 15-2015	Highly effective oxide catalyst for the detoxification of oil mill wastewaters by the wet air oxidation process. <i>Desalination and Water Treatment</i> , 53 (4), pp.1018-1023, 2015	Arena F, Lombardo D, Drago Ferrante G, Italiano C, Spadaro L, Trunfio G	1
2017 71-2017	Comparative study on composite electrodes for medium temperature PEFC. <i>International Journal of Membrane Science and Technology</i> , 4, pp.37-44, 2017	Gatto I, Carbone A, Pedicini R, Saccà A, Matera FV, Patti A, Passalacqua E	1
2018 18-2018	Design of a geothermal plant to heat a waterpark swimming pool: Case study of Tramutola (Basilicata, Italy). <i>European Journal of Electrical Engineering</i> , 20 (5-6), pp.539-557, 2018	Di Bella G, Sapienza A, Vasta S, Lombardo G	1
2019 57-2019	Experimental and computational fluid dynamic study of an active ventilated façade integrating battery and distributed MPPT. <i>Mathematical Modelling of Engineering Problems</i> , 6 (3), pp.333-342, 2019	Ferraro M, Airò Farulla G, Tumminia G, Guarino F, Aloisio D, Brunaccini G, Sergi F, Giusa F, Colino AE, Cellura M, Antonucci V	1
2022 12-2022	Promoting effect of Cu on Pd applied to the hydrazine electro-oxidation and direct hydrazine fuel cells. <i>Catalysts</i> , 12 (12), art. no. 1639, 2022	Crisafulli R, de Paula DF, Zignani SC, Spadaro L, Palella A, Boninelli S, Dias JA, Linares JJ	1
30-2022	Parametric thermo-economic analysis of a Power-to-Gas energy system with renewable input, high temperature co-electrolysis and methanation. <i>Energies</i> , 15 (5), art. no. 1791, 2022	Ancona MA, Antonucci V, Branchini L, Catena F, De Pascale A, Di Blasi A, Ferraro M, Italiano C, Melino F, Vita A	1
32-2022	Road thermal collector for building heating in South Europe: Numerical modeling and design of an experimental set-up. <i>Energies</i> , 15 (2), art. no. 430, 2022	D'Amico A, Ciulla G, Buscemi A, Panno D, Zinzi M, Beccali M	1

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2022 53-2022	Study on metronidazole acid-base behavior and speciation with Ca ²⁺ for potential applications in natural waters. <i>Molecules</i> , 27 (17), art. no. 5394, 2022	Carnamucio F, Foti C, Cordaro Ms, Giuffrè O	1
1982 p12-1982	Isopropyl alcohol dehydration on zeolitized Lipari pumice. <i>La Chimica e l'Industria</i> , Anno 64 (1), gennaio, 13-17, 1982	Maggiore R, Schembari G, Crisafulli C, Bottari A, Cavallaro S, Solarino L	0
1983 p2-1983	Catalytic Beckmann rearrangement of cyclohexanone oxime to caprolactam over metal sulfates. <i>Reaction Kinetics and Catalysis Letters</i> , 22 (1-2), 197-202, 1983	Cavallaro S, Caristi C, Cimino G, Maggiore R, Galvagno S	0
1984 p13-1984	The influence of iron in synthetic zeolites on the decomposition of perborate. <i>Journal of Chemical Technology & Biotechnology</i> , 34A (6), 317-323, 1984	Burriesci N, Giordano N, Petrera M, Bart JCJ	0
p14-1984	Industrial preparation of urea orthophosphate from H ₃ PO ₄ (wet-process). <i>Indian Journal of Technology</i> , 22 (1), 33-36, 1984	Cavallaro S, Vitarelli P, Saija LM, Ottanà R, Bart JCJ	0
1986 p1-1986	Solar energy storage for zootechnic applications. <i>Applied Energy</i> , 25 (4), 309-314, 1986	Restuccia G, Freni S, Cacciola G	0
1987 4	Thermal energy recovery and storage by a sulphuric acid-water process. <i>Resources and Conservation</i> , Vol.15, 191-203, 1987	Freni S, Recupero V, Cacciola G	0
1988 22	Influenza delle zeoliti naturali (tufo campano) sulla produzione del <i>Gladiolus ibridi di primulinus</i> . <i>Agricoltura e Ricerca</i> , N.84, pp.11-16, 1988	Recupero V, Pino L	0
23	Paraselectivity in borosilicate zeolite in the alkylation of toluene with methanol. <i>Annali di Chimica</i> , 78, 575-584, 1988	Pino L, Giordano N, Cavallaro S, Rao BS, Tsiakaras P, Vitarelli P	0
1989 33	Activity and surface composition of sputter-deposited Pt/ γ -Al ₂ O ₃ catalysts. <i>Materials Science and Engineering A: Structural Materials</i> , 116, 65-70, 1989	Licciardello A, Iacona F, Pignataro S, Parmaliana A, Frusteri F, Giordano N	0
1991 63	Thermal effects during the electrolytic charging of deuterium in the palladium lattice. <i>Fusion Technology</i> , Vol. 20, pp.105-107,	Giordano N, Aricò AS, Antonucci V	0
1993 A12	Surface structure and reactivity of magnesia supported nickel catalysts: a model system. <i>Studies in Surface Science and Catalysis</i> , 75, 2087-2090, 1993	Parmaliana A, Arena F, Frusteri F, Mondello N, Giordano N	0
1995 143	Simulazione dinamica di una pompa di calore ad adsorbimento. <i>La Termotecnica</i> , pp.69-75, Settembre, 1995	Brigandi A, Cacciola G, Maggio G, Restuccia G	0
145	Rendimenti di una cella a combustibile a carbonati fusi con reforming interno. <i>La Termotecnica</i> , pp.77-83, Novembre, 1995	Freni S, Maggio G, Giordano N	0
1996 150	Selection of process and equipment for hydrogen from biomass for fuel cells. <i>Bioresource Technology</i> , 146, pp.269-284, 1996	Hauserman WB, Alderucci V, Recupero V, Torre T	0
158	Etanolo: combustibile alternativo per celle a carbonati fusi. <i>La Termotecnica</i> , pp.53-59, Maggio, 1996	Freni S, Maggio G, Cavallaro S	0
165	Preparation parameters affecting the physico-chemical characteristics of Pt/carbon catalysts. <i>Materials Engineering</i> , Vol.7, pp.497-508, 1996	Pino L, Antonucci PL, Passalacqua E, Torre T, Giordano N	0
1997 191	Progress in solid adsorbents for environmental-friendly heat pumps. <i>Chemistry for Sustainable Development</i> , 5 (5), 471-476 (pp.501-506 nella versione in russo su "Khimiya v interesah ustoiichivogo razvitiya"), 1997	Cacciola G	0
198	Gassificatori biomasse-celle a combustibile per produrre energia. <i>La Termotecnica</i> , Anno LI, N. 5, pp.49-55, 1997	Hauserman WB, Recupero V, Pino L, Laganà M	0
199	Stabilità di catodi in NiO per celle a combustibile a carbonati fusi. <i>La Termotecnica</i> , pp.53-61, Aprile, 1997	Freni S, Barone F, Puglisi M, Minutoli M	0

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2001 284	Pompe di calore/climatizzatori ad adsorbimento: studio di letti adsorbenti innovativi per mezzo di un modello di trasporto di massa ed energia. La Termotecnica, 55 (1), 95-102, 2001	Maggio G, Freni A, Ingrasciotta M, Restuccia G	0
299	Conversione di energia. Materiali per tecnologie avanzate. La Chimica e l'Industria, Anno 83, n.6, p.39, 2001	Cacciola G, Freni S, Freni A	0
301	Celle a combustibile: energia pulita da studi CNR. Applicazioni nell'autotrazione elettrica e nella telefonia cellulare [titolo in inglese: Fuel cells as renewable energy sources]. Ricerca & Futuro, n.19, pp.59-62, 2001	Cacciola G, Passalacqua E	0
2002 12-2002	Macchine ad adsorbimento di tipo avanzato: validazione di un modello di simulazione dinamica. La Termotecnica, 56 (6), 87-92, 2002	Marletta L, Vasta S, Freni A, Restuccia G	0
2005 20-2005	Indagine energetica di un edificio scolastico. Caso studio: l'Istituto Professionale Antonello di Messina. La Termotecnica, Anno LIX, n.9 nov., pp.64-69, 2005	Cipiti F, Recupero V, Freni S, Cacciola G	0
2006 8-2006	Generatore di idrogeno da idrocarburi leggeri per applicazioni stazionarie. La Termotecnica, anno LX, n.1, gennaio/febbraio,	Cipiti F, Recupero V, Pino L, Vita A, Laganà M	0
9-2006	Due tecnologie innovative per la generazione distribuita dell'energia: le celle a combustibile e le pompe di calore ad adsorbimento. CH4 Energia Gas, n.1, pp.30-36, 2006	Cacciola G, Freni A, Sapienza A	0
2008 38-2008	Processi di bonifica di un sito interessato da rifiuti dell'industria dei pneumatici. Ingegneria ambientale, vol. 47, pp.47-57, 2008	Bonura G, Di Blasi O, Minniti Z, Librando V	0
39-2008	Riqualficazione dell'area ex-Pirelli di Villafranca Tirrena. Inquinamento, vol. 105, pp.32-36, 2008	Bonura G, Di Blasi O	0
2009 32-2009	Fuel cells for portable applications. La Chimica e l'Industria, Anno 91, n°4 (maggio), pp.114-120, 2009	Baglio V, Antonucci V, Aricò AS	0
37-2009	Aire acondicionado por energia solar simulacion dinamica de un sistema de adsorcion. Frio Calor Aire Acondicionado, vol.415, pp.48-58, 2009	Polonara F, Santori G, Freni A, Restuccia G	0
2012 41-2012	Cermet anodici innovativi per Bio-SOFC. La Chimica e l'Industria, Anno 94, n.9 (nov-dic 2012), pp.107-111, 2012	Bonura G, Cannilla C, Cordaro Mn, Mezzapica A, Frusteri F	0
44-2012	Biogas: un'opportunità per le SOFC. La Chimica e l'Industria, Anno 94, n.9 (nov-dic 2012), pp.135-139, 2012	Vita A, Lo Faro M, Laganà M, Minutoli M, Pino L, Aricò AS	0
2014 47-2014	ETRERA Project: an Europe –Tunisia cooperation in S&T transfer. InImpact: The Journal of Innovation Impact, 7 (1), pp.21-	Squadrito G, Nicita A, Chtourou R, Auvity B, Soraci A	0
2015 42-2015	Catalytic study in the HDO-HDT reaction of guaiacyl model compound for the direct valorization of biomasses pyrolysis oil. International Journal of Environmental Engineering (IRED), 2 (2), pp.37-41, 2015	Spadaro L, Palella A, Arena F	0
2018 60-2018	Investigation of TiCr hydrogen storage alloy. Journal of Technology Innovations in Renewable Energy, 7, pp.35-41, 2018	Pedicini R, Gatto I, Passalacqua E, Biffi CA, Coduri M, Tuissi A	0
2019 69-2019	Lignin oxidation by MnO ₂ under the irradiation of blue light. Green Chemistry, 21 (8), pp.2005-2014, 2019	Dai J, Patti AF, Styles GN, Nanayakkara S, Spiccia L, Arena F, Italiano C, Saito K	0
71-2019	Waste and natural materials for hydrogen storage application. International Journal of Green Technology, 5, pp.23-30, 2019	Pedicini R, Gatto MF, Gatto I	0
2020 77-2020	Tales from an abandonment. The notion of memory between the town of Gibellina and the "cretto". ArcHistoR, 13 (7), pp.419-437, 2020	Musolino M	0

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2021 2-2021	Comparison of machine learning techniques for SoC and SoH evaluation from impedance data of an aged lithium ion battery. Acta IMEKO, 10 (2), pp.80-87, 2021	Aloisio D, Campobello G, Leonardi SG, Sergi F, Brunaccini G, Ferraro M, Antonucci V, Segreto A, Donato N	0
22-2021	A new methodological approach for the evaluation of scaling up a latent storage module for integration in heat pumps. Energies, 14 (22), art. no. 7470, 2021	Zsembinszki G, Mselle BD, Vérez D, Borri E, Strehlow A, Nitsch B, Frazzica A, Palomba V, Cabeza LF	0
52-2021	Social vulnerability and damage perception: Two italian case studies. Sociologia Urbana e Rurale, n. 124, pp.119-137, 2021	Musolino M	0
2022 10-2022	Supramolecular assembly of pentamidine and polymeric cyclodextrin bimetallic core-shell nanoarchitectures. Beilstein Journal of Nanotechnology, 13, pp.1361-1369, 2022	Hada A-M, Burduja N, Abbate M, Stagno C, Caljon G, Maes L, Micale N, Cordaro Ms, Scala A, Mazzaglia A, Piperno A	0
13-2022	Copper and iron cooperation on micro-spherical silica during methanol synthesis via CO ₂ hydrogenation. Catalysts, 12 (6), art. no. 603, 2022	Todaro S, Frusteri F, Wawrzyńczak D, Majchrzak-Kucęba I, Pérez-Robles J-F, Cannilla C, Bonura G	0
26-2022	Structural analysis of electrochemical hydrogen compressor end-plates for high-pressure applications. Energies, 15 (16), art. no. 5823, 2022	Caponetto R, Privitera E, Mirone G, Matera FV	0
55-2022	Evaluation of photoelectrocatalysis with electrode based on Ti/RuO ₂ -TiO ₂ modified with tin and tantalum oxides for the degradation of indigo blue dye. Nanomaterials, 12 (23), art. no. 4301, 2022	Tomaz AT, Costa CR, Vasconcellos MLS, Pedicini R, Ribeiro J	0
1982 p14-1982	C'è l'idrogeno nel nostro futuro. Tecnologie Chimiche, N. 5/82, pp.28-39, 1982	Giordano N, Ghersini G, Antonucci V	
1983 p15-1983	Pompe di calore chimiche. 1 Caloria a 210° da 4 a 60°. Tecnologie chimiche, anno 3, n. 3, pp.64-68, 1983	Freni S, Restuccia G, Parmaliana A, Giordano N	
p19-1983	Il metanodotto Algeria-Italia. Diversificare si deve e si può. Tecnologie Chimiche, N. 2/83, 18-25, 1983	Burriesci N, Petrera M, Zipelli C	
p20-1983	Ortofosfato di urea: valutazione economica di un processo industriale. Tecnologie Chimiche, N. 10/83, 84-87, 1983	Cavallaro S, Vitarelli P, Lembo R, Saija LM, Ottanà R	
1984 p8-1984	Valutazione economica su sistemi solari con accumulo applicati all'avicoltura. Energie Alternative HTE, 6 (31), 433-440, 1984	Cacciola G, Restuccia G, Freni S	
1986 p10-1986	Automazione nel test di celle a carbonati fusi. Automazione Oggi, Set., pp.154-158, 1986	Moletti G, Quagliata R, Carbonaro P, Freni S	
p11-1986	Accumulo di calore a media e bassa temperatura mediante nuovi sistemi di sali idrati. Energie Alternative HTE, Anno 8, 41, 209-216, 1986	Vaccarino C, Frusteri F, Parmaliana A	
1988 24	Analisi energetica della provincia di Ragusa. Energie Alternative HTE, anno 10, n.54, pp.293-300, 1988	Cacciola G, Restuccia G	
1989 36	Celle a combustione [sic]. Contro la crisi energetica. Tecnologie Chimiche, (11), 150-157, 1989	Freni S, Cavallaro S, Giordano N	
A21	Characterization and corrosion behaviour of carbon blacks as supports for acid fuel cells. Materials Engineering, 1 (2), 527-535, 1989	Antonucci PL, Passalacqua E, Pino L, Giordano N	
1990 49	Gruppo di cogenerazione, pompe di calore, captatori solari, in un impianto integrato per il riscaldamento ambienti. Impianto realizzato presso l'Istituto CNR-TAE di Messina. Energie Alternative HTE, Anno 12, (65), 173-180, 1990	Restuccia G, Cacciola G, Giordano N	

Anno n°Articolo	Titolo	Autori	Numero di citazioni
1990 51	Catalytic and reaction engineering aspects in the storage and transmission of hydrogen through the reversible (de)hydrogenation of methyl-cyclohexane. Revue internationale d'heliotechnique, Nouvelle Serie 1, 1990	Giordano N	
52	Comparazione di possibili coppie adsorbente-adsorbato per sistemi di refrigerazione collegati ad impianti solari. Energie Alternative HTE, Anno 12, (67), 351-357, 1990	Basile A, Cacciola G, Giordano	
1991 67	Temperature influence on the dissolution of the NiO cathodes in MCFC. Materials Engineering, 2 (1), 75-89, 1991	Cavallaro S, Freni S, Giordano N	
68	Un impianto dimostrativo per condizionamento ambienti realizzato mediante l'integrazione di diverse tecnologie per risparmio energetico. Energie Alternative HTE, Anno 13, N. 69, pp.23-32, gennaio-febbraio, 1991	Restuccia G, Cacciola G, Fasulo A, Giordano N	
71	Metodologia per la valutazione delle potenziali risorse in biomasse della Sicilia. Ambiente Risorse Salute, Vol. 5 (10), N. 111, pp.6-12, 1991	Alderucci V, Giordano A, Iovino A, Giordano N, Phillips VD	
1992 82	Celle a combustibile a carbonati fusi con reforming interno. Tecnologie Chimiche, N. 8/92, pp.108-113, 1992	Freni S, Ravidà D, Aquino M	
1996 167	New fuel cell based on heteropoly acid electrolyte is operating at the Institute CNR-TAE in Messina. European Fuel Cell News, 3 (4), 12-13, December, 1996	Staiti P, Hočevár S	
1999 254	PEFC's and DMFC & fuel processing at the CNR-TAE Institute. European Fuel Cell News, 6 (1), 13-17, 1999	Cacciola G	
2002 10-2002	CNR-ITAE experience in PEFC gas diffusion electrodes production. European Fuel Cell News, 9 (2), 12-16, 2002	Passalacqua E, Matera FV, Recupero V, Gatto I	
2003 14-2003	Autotrazione e cellulari negli studi del CNR. H ₂ Idrogeno & Celle a Combustibile, anno 1, n.1, pp.68-69, 2003	Cacciola G, Passalacqua E	
15-2003	Il vettore dell'aria pulita. QualEnergia, n.2, pp.34-37, maggio-giugno, 2003	Cacciola G	
2004 16-2004	I pionieri dell'idrogeno. Protecta, n.7/9, pp.52-54, luglio/settembre, 2004	Cacciola G	
21-2004	Sistemi rigenerativi e sistemi reversibili. AEI: rivista ufficiale dell'Associazione Elettrotecnica ed Elettronica Italiana, vol.91, pp.39-45, 2004	Tina GM, Ardito D, Moschetto A	
2005 4-2005	Produzione di stack di celle a combustibile polimeriche. Analisi tecnica ed economica. La Termotecnica, anno LIX, n.1 gen./febb., pp.63-67, 2005	Recupero V, Cipiti F, Cacciola G	
2008 11-2008	Le tecnologie per l'idrogeno aiutano le rinnovabili. Protecta, 12 (1), 100-101, dicembre/gennaio, 2008	Cacciola G	
17-2008	Idrogeno e fonti rinnovabili: una possibile soluzione ai problemi energetici. Analysis, n. 1, pp.16-21, 2008	Cacciola G	
18-2008	Un modello previsionale del picco petrolifero, basato su una variante della curva di Hubbert. La Termotecnica, pp.24-30, settembre, 2008	Maggio G, Cacciola G	
2010 30-2010	Strategie e progetti del CNR ITAE. Protecta, n.12/1 dic/gen 2010, pp.120-12, 2010	Andaloro L, Dispenza G, Antonucci V, Cacciola G	
2011 36-2011	Energie pulite, la collaborazione tra Italia, Francia e Tunisia. Innovazione - Idee, reti, business, n° 14 (luglio 2011), pp.18-23, 2011	Squadrìto G, Nicita A	
37-2011	La rivoluzione decentralizzata. Social News, anno 8, n. 5 (maggio 2011), pp.5-6, 2011	Cacciola G	

Anno n°Articolo	Titolo	Autori	Numero di citazioni
2012 42-2012	Procedimiento de medición unificado de adsorción de agua para materiales de sorción. Frío Calor Aire Acondicionado, vol.447, pp.3-10, 2012	Henninger SK, Schnabel L, Schossig P, Freni A, Restuccia G	
2014 53-2014	Simulazione di un reattore per lo steam reforming del biogas per celle a combustibile ad ossido solido. Chimica Ambiente, 2, pp.30-33, 2014	Cipiti F	
2017 70-2017	Cogenerazione assistita da gassificazione: Analisi di un caso studio mediante simulazione dinamica. La Termotecnica, 71 (8), pp.65-68, 2017	Galvagno A, Palomba V, Prestipino M, Vasta S	
76-2017	Solid state hydrogen storage in polymeric materials: A review. Energy Research Journal, 2, pp.32-36, 2017	Pedicini R	

Totale citazioni raccolte dal 1996 al 2023, per gli articoli pubblicati dal CNR-ITAE dal 1981 al 2022.

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