Antonino S AricÃ²

List of Publications by Year
in descending order

326 papers	23,021 citations	12330 69 h-index	9589 142 g-index
335 all docs	335 docs citations	335 times ranked	22146 citing authors

#	Article	IF	Citations
1	Nanostructured materials for advanced energy conversion and storage devices. Nature Materials, 2005, 4, 366-377.	27.5	8,114
2	International activities in DMFC R&D: status of technologies and potential applications. Journal of Power Sources, 2004, 127, 112-126.	7.8	635
3	Investigation of a direct methanol fuel cell based on a composite NafionÂ®-silica electrolyte for high temperature operation. Solid State Ionics, 1999, 125, 431-437.	2.7	423
4	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, 2001, 172, 33-40.	6.1	335
5	Durable Superhydrophobic and Antireflective Surfaces by Trimethylsilanized Silica Nanoparticles-Based Solâˆ'Gel Processing. Langmuir, 2009, 25, 6357-6362.	3.5	305
6	Hybrid Nafionâ€"silica membranes doped with heteropolyacids for application in direct methanol fuel cells. Solid State Ionics, 2001, 145, 101-107.	2.7	276
7	Composite Nafion/Zirconium Phosphate Membranes for Direct Methanol Fuel Cell Operation at High Temperature. Electrochemical and Solid-State Letters, 2001, 4, A31.	2.2	268
8	Nanosized IrOx and IrRuOx electrocatalysts for the O2 evolution reaction in PEM water electrolysers. Applied Catalysis B: Environmental, 2015, 164, 488-495.	20.2	213
9	Nafionâ€"TiO2 composite DMFC membranes: physico-chemical properties of the filler versus electrochemical performance. Electrochimica Acta, 2005, 50, 1241-1246.	5.2	212
10	Sulfonated polybenzimidazole membranes â€" preparation and physico-chemical characterization. Journal of Membrane Science, 2001, 188, 71-78.	8.2	202
11	Polymer electrolyte membrane water electrolysis: status of technologies and potential applications in combination with renewable power sources. Journal of Applied Electrochemistry, 2013, 43, 107-118.	2.9	198
12	CWO of phenol on two differently prepared CuOâ€"CeO2 catalysts. Applied Catalysis B: Environmental, 2000, 28, 113-125.	20.2	193
13	Influence of the acidâ€"base characteristics of inorganic fillers on the high temperature performance of composite membranes in direct methanol fuel cells. Solid State Ionics, 2003, 161, 251-265.	2.7	164
14	Investigation of a Ba0.5Sr0.5Co0.8Fe0.2O3âˆ'Î´ based cathode SOFC. Applied Catalysis B: Environmental, 2007, 76, 320-327.	20.2	164
15	Effect of Ptî—¸Ru alloy composition on high-temperature methanol electro-oxidation. Electrochimica Acta, 2002, 47, 3723-3732.	5.2	159
16	Electrochemical characterization of single cell and short stack PEM electrolyzers based on a nanosized IrO2 anode electrocatalyst. International Journal of Hydrogen Energy, 2010, 35, 5558-5568.	7.1	138
17	Enhanced performance and durability of low catalyst loading PEM water electrolyser based on a short-side chain perfluorosulfonic ionomer. Applied Energy, 2017, 192, 477-489.	10.1	138
18	Investigation of a carbon-supported quaternary Ptî—¸Ruî—¸Snî—¸W catalyst for direct methanol fuel cells. Journal of Power Sources, 1995, 55, 159-166.	7.8	136

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19	An X-ray photoelectron spectroscopic study on the effect of Ru and Sn additions to platinised carbons. Applied Surface Science, 1999, 137, 20-29.	6.1	134
20	Preparation and characterization of titanium suboxides as conductive supports of IrO2 electrocatalysts for application in SPE electrolysers. Electrochimica Acta, 2009, 54, 6292-6299.	5.2	131
21	Investigation of several graphite-based electrodes for vanadium redox flow cell. Journal of Power Sources, 2013, 227, 15-23.	7.8	131
22	Analysis of platinum particle size and oxygen reduction in phosphoric acid. Electrochimica Acta, 1991, 36, 1979-1984.	5.2	126
23	Investigation of direct methanol fuel cells based on unsupported Ptâ€"Ru anode catalysts with different chemical properties. Electrochimica Acta, 2000, 45, 4319-4328.	5.2	125
24	Performance comparison of long and short-side chain perfluorosulfonic membranes for high temperature polymer electrolyte membrane fuel cell operation. Journal of Power Sources, 2011, 196, 8925-8930.	7.8	124
25	An electrochemical study of a PEM stack for water electrolysis. International Journal of Hydrogen Energy, 2012, 37, 1939-1946.	7.1	120
26	Performance analysis of polymer electrolyte membranes for direct methanol fuel cells. Journal of Power Sources, 2013, 243, 519-534.	7.8	118
27	Analysis of the high-temperature methanol oxidation behaviour at carbon-supported Ptâ€"Ru catalysts. Journal of Electroanalytical Chemistry, 2003, 557, 167-176.	3.8	117
28	Influence of flow field design on the performance of a direct methanol fuel cell. Journal of Power Sources, 2000, 91, 202-209.	7.8	115
29	Performance and degradation of high temperature polymer electrolyte fuel cell catalysts. Journal of Power Sources, 2008, 178, 525-536.	7.8	113
30	Performance analysis of a non-platinum group metal catalyst based on iron-aminoantipyrine for direct methanol fuel cells. Applied Catalysis B: Environmental, 2016, 182, 297-305.	20.2	113
31	Insights on the extraordinary tolerance to alcohols of Fe-N-C cathode catalysts in highly performing direct alcohol fuel cells. Nano Energy, 2017, 34, 195-204.	16.0	113
32	New insights into the stability of a high performance nanostructured catalyst for sustainable water electrolysis. Nano Energy, 2017, 40, 618-632.	16.0	112
33	Preparation and evaluation of RuO2â€"IrO2, IrO2â€"Pt and IrO2â€"Ta2O5 catalysts for the oxygen evolution reaction in an SPE electrolyzer. Journal of Applied Electrochemistry, 2009, 39, 191-196.	2.9	111
34	The influence of iridium chemical oxidation state on the performance and durability of oxygen evolution catalysts in PEM electrolysis. Journal of Power Sources, 2017, 366, 105-114.	7.8	110
35	Enhanced oxygen reduction activity and durability of Pt catalysts supported on carbon nanofibers. Applied Catalysis B: Environmental, 2012, 115-116, 269-275.	20.2	109
36	Title is missing!. Journal of Applied Electrochemistry, 1999, 29, 673-678.	2.9	107

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37	Polymer electrolytes based on sulfonated polysulfone for direct methanol fuel cells. Journal of Power Sources, 2008, 179, 34-41.	7.8	104
38	Optimization of operating parameters of a direct methanol fuel cell and physico-chemical investigation of catalystâ€"electrolyte interface. Electrochimica Acta, 1998, 43, 3719-3729.	5.2	103
39	High temperature operation of a composite membrane-based solid polymer electrolyte water electrolyser. Electrochimica Acta, 2008, 53, 7350-7356.	5.2	101
40	High Performance and Costâ€Effective Direct Methanol Fuel Cells: Feâ€Nâ€C Methanolâ€Tolerant Oxygen Reduction Reaction Catalysts. ChemSusChem, 2016, 9, 1986-1995.	6.8	100
41	High performance fuel cell based on phosphotungstic acid as proton conducting electrolyte. Electrochimica Acta, 1996, 41, 397-403.	5.2	96
42	FTIR spectroscopic investigation of inorganic fillers for composite DMFC membranes. Electrochemistry Communications, 2003, 5, 862-866.	4.7	93
43	Nanosized IrO2 electrocatalysts for oxygen evolution reaction in an SPE electrolyzer. Journal of Nanoparticle Research, 2011, 13, 1639-1646.	1.9	93
44	Methanol electrooxidation on carbon-supported Pt-WO3?x electrodes in sulphuric acid electrolyte. Journal of Applied Electrochemistry, 1995, 25, 528-532.	2.9	92
45	High Temperature Operation of a Solid Polymer Electrolyte Fuel Cell Stack Based on a New Ionomer Membrane. Fuel Cells, 2010, 10, 1013-1023.	2.4	91
46	Electrochemical Impedance Spectroscopy as a Diagnostic Tool in Polymer Electrolyte Membrane Electrolysis. Materials, 2018, 11, 1368.	2.9	88
47	Fuel flexibility: A key challenge for SOFC technology. Fuel, 2012, 102, 554-559.	6.4	86
48	Investigation of IrO2 electrocatalysts prepared by a sulfite-couplex route for the O2 evolution reaction in solid polymer electrolyte water electrolyzers. International Journal of Hydrogen Energy, 2011, 36, 7822-7831.	7.1	85
49	Sulfonated Graphene Oxide Platelets in Nafion Nanocomposite Membrane: Advantages for Application in Direct Methanol Fuel Cells. Journal of Physical Chemistry C, 2014, 118, 24357-24368.	3.1	85
50	Investigation of grafted ETFE-based polymer membranes as alternative electrolyte for direct methanol fuel cells. Journal of Power Sources, 2003, 123, 107-115.	7.8	84
51	Methanol oxidation on carbon-supported platinum-tin electrodes in sulfuric acid. Journal of Power Sources, 1994, 50, 295-309.	7.8	83
52	Performance, methanol tolerance and stability of Fe-aminobenzimidazole derived catalyst for direct methanol fuel cells. Journal of Power Sources, 2016, 319, 235-246.	7.8	83
53	Improved Pd electro-catalysis for oxygen reduction reaction in direct methanol fuel cell by reduced graphene oxide. Applied Catalysis B: Environmental, 2014, 144, 554-560.	20.2	80
54	Towards fuel cell membranes with improved lifetime: AquivionÂ® Perfluorosulfonic Acid membranes containing immobilized radical scavengers. Journal of Power Sources, 2014, 272, 753-758.	7.8	80

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55	Degradation issues of PEM electrolysis MEAs. Renewable Energy, 2018, 123, 52-57.	8.9	80
56	Performance of DMFC anodes with ultra-low Pt loading. Electrochemistry Communications, 2004, 6, 164-169.	4.7	79
57	Optimization of components and assembling in a PEM electrolyzer stack. International Journal of Hydrogen Energy, 2011, 36, 3333-3339.	7.1	79
58	Investigation of bimetallic Ptâ€"M/C as DMFC cathode catalysts. Electrochimica Acta, 2007, 53, 1360-1364.	5.2	77
59	Performance analysis of short-side-chain AquivionÂ® perfluorosulfonic acid polymer for proton exchange membrane water electrolysis. Journal of Membrane Science, 2014, 466, 1-7.	8.2	77
60	Assessment of the FAA3-50 polymer electrolyte in combination with a NiMn2O4 anode catalyst for anion exchange membrane water electrolysis. International Journal of Hydrogen Energy, 2020, 45, 9285-9292.	7.1	77
61	Influence of Chemistry and Topology Effects on Superhydrophobic CF₄-Plasma-Treated Poly(dimethylsiloxane) (PDMS). Langmuir, 2008, 24, 1833-1843.	3.5	75
62	Relationship between physicochemical properties and electrooxidation behaviour of carbon materials. Electrochimica Acta, 1991, 36, 1931-1935.	5.2	74
63	An appraisal of electric automobile power sources. Renewable and Sustainable Energy Reviews, 2001, 5, 137-155.	16.4	74
64	Nanostructured materials for advanced energy conversion and storage devices. , 2010, , 148-159.		74
65	Preparation and sintering of Ce1?xGdxO2?x/2 nanopowders and their electrochemical and EPR characterization. Solid State Ionics, 2004, 175, 361-366.	2.7	73
66	The influence of functional groups on the surface acid-base characteristics of carbon blacks. Carbon, 1989, 27, 337-347.	10.3	72
67	Composite Mesoporous Titania Nafion-Based Membranes for Direct Methanol Fuel Cell Operation at High Temperature. Journal of the Electrochemical Society, 2005, 152, A1373.	2.9	71
68	Solid Polymer Electrolyte Water Electrolyser Based on Nafionâ€TiO₂ Composite Membrane for High Temperature Operation. Fuel Cells, 2009, 9, 247-252.	2.4	71
69	Nanosized Pt/IrO2 electrocatalyst prepared by modified polyol method for application as dual function oxygen electrode in unitized regenerative fuel cells. International Journal of Hydrogen Energy, 2012, 37, 5508-5517.	7.1	71
70	Feâ€"N supported on graphitic carbon nano-networks grown from cobalt as oxygen reduction catalysts for low-temperature fuel cells. Applied Catalysis B: Environmental, 2015, 166-167, 75-83.	20.2	69
71	PtCu catalyst for the electro-oxidation of ethanol in an alkaline direct alcohol fuel cell. International Journal of Hydrogen Energy, 2017, 42, 27919-27928.	7.1	66
72	Carbon nanofiber-based counter electrodes for low cost dye-sensitized solar cells. Journal of Power Sources, 2014, 250, 242-249.	7.8	65

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73	Selectivity of Direct Methanol Fuel Cell Membranes. Membranes, 2015, 5, 793-809.	3.0	65
74	Stabilisation of composite LSFCOâ€“CGO based anodes for methane oxidation in solid oxide fuel cells. Journal of Power Sources, 2005, 145, 68-73.	7.8	64
75	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, 2018, 220, 98-110.	20.2	64
76	Electrocatalytic behaviour for oxygen reduction reaction of small nanostructured crystalline bimetallic Ptâ€“M supported catalysts. Journal of Applied Electrochemistry, 2006, 36, 1143-1149.	2.9	61
77	Hybrid ordered mesoporous carbons doped with tungsten trioxide as supports for Pt electrocatalysts for methanol oxidation reaction. Electrochimica Acta, 2013, 94, 80-91.	5.2	61
78	A combination of CoO and Co nanoparticles supported on electrospun carbon nanofibers as highly stable air electrodes. Journal of Power Sources, 2017, 364, 101-109.	7.8	60
79	Optimization of properties and operating parameters of a passive DMFC mini-stack at ambient temperature. Journal of Power Sources, 2008, 180, 797-802.	7.8	59
80	An NMR and SAXS investigation of DMFC composite recast Nafion membranes containing ceramic fillers. Journal of Membrane Science, 2006, 270, 221-227.	8.2	58
81	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, 2009, 193, 160-164.	7.8	58
82	Electrochemical characterization of a PEM water electrolyzer based on a sulfonated polysulfone membrane. Journal of Membrane Science, 2013, 448, 209-214.	8.2	58
83	Zeolite-based composite membranes for high temperature direct methanol fuel cells. Journal of Applied Electrochemistry, 2005, 35, 207-212.	2.9	57
84	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, 2010, 114, 15823-15836.	3.1	57
85	Performance and life-time behaviour of NiCuâ€“CGO anodes for the direct electro-oxidation of methane in IT-SOFCs. Journal of Power Sources, 2007, 164, 300-305.	7.8	56
86	Development of Pt and Ptâ€“Fe Catalysts Supported on Multiwalled Carbon Nanotubes for Oxygen Reduction in Direct Methanol Fuel Cells. Journal of the Electrochemical Society, 2008, 155, B829.	2.9	56
87	Investigation of low cost carbonaceous materials for application as counter electrode in dye-sensitized solar cells. Journal of Applied Electrochemistry, 2009, 39, 2173-2179.	2.9	56
88	Development and characterization of sulfonated polysulfone membranes for direct methanol fuel cells. Desalination, 2006, 199, 283-285.	8.2	55
89	Cost Analysis of Direct Methanol Fuel Cell Stacks for Mass Production. Energies, 2016, 9, 1008.	3.1	54
90	Surface properties of inorganic fillers for application in composite membranes-direct methanol fuel cells. Journal of Power Sources, 2004, 128, 113-118.	7.8	53

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91	Performance and selectivity of PtxSn/C electro-catalysts for ethanol oxidation prepared by reduction with different formic acid concentrations. Electrochimica Acta, 2012, 70, 255-265.	5.2	53
92	The effect of thermal treatment on structure and surface composition of PtCo electro-catalysts for application in PEMFCs operating under automotive conditions. Journal of Power Sources, 2012, 208, 35-45.	7.8	52
93	Investigation of the electrochemical behaviour in DMFCs of chabazite and clinoptilolite-based composite membranes. Electrochimica Acta, 2005, 50, 5181-5188.	5.2	50
94	Investigation of passive DMFC mini-stacks at ambient temperature. Electrochimica Acta, 2009, 54, 2004-2009.	5.2	50
95	Towards an optimal synthesis route for the preparation of highly mesoporous carbon xerogel-supported Pt catalysts for the oxygen reduction reaction. Applied Catalysis B: Environmental, 2014, 147, 947-957.	20.2	48
96	Commercial platinum group metal-free cathodic electrocatalysts for highly performed direct methanol fuel cell applications. Journal of Power Sources, 2019, 437, 226948.	7.8	48
97	Chemically stabilised extruded and recast short side chain AquivionÂ® proton exchange membranes for high current density operation in water electrolysis. Journal of Membrane Science, 2019, 578, 136-148.	8.2	48
98	Methanol oxidation on carbon-supported Ptî—¸Sn electrodes in silicotungstic acid. Electrochimica Acta, 1994, 39, 691-700.	5.2	46
99	CO 2 reduction to alcohols in a polymer electrolyte membrane co-electrolysis cell operating at low potentials. Electrochimica Acta, 2017, 241, 28-40.	5.2	46
100	Electrospun carbon nanofibers loaded with spinel-type cobalt oxide as bifunctional catalysts for enhanced oxygen electrocatalysis. Journal of Energy Storage, 2019, 23, 269-277.	8.1	46
101	Electrospun NiMn2O4 and NiCo2O4 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, 2019, 44, 20987-20996.	7.1	46
102	Tape casting fabrication and co-sintering of solid oxide â€œhalf cellsâ€•with a cathodeâ€“electrolyte porous interface. Solid State Ionics, 2006, 177, 2093-2097.	2.7	45
103	Local environment of Barium, Cerium and Yttrium in BaCe1â^'xYxO3â^'Î´ ceramic protonic conductors. Solid State Ionics, 2007, 178, 587-591.	2.7	45
104	Optimizing the synthesis of carbon nanofiber based electrocatalysts for fuel cells. Applied Catalysis B: Environmental, 2013, 132-133, 22-27.	20.2	45
105	Photoactive screen-printed pyrite anodes for electrochemical photovoltaic cells. Solar Cells, 1991, 31, 119-141.	0.6	44
106	A.c.-impedance spectroscopy study of oxygen reduction at Nafionï¿½ coated gas-diffusion electrodes in sulphuric acid: Teflon loading and methanol cross-over effects. Journal of Applied Electrochemistry, 1993, 23, 1107-1116.	2.9	44
107	Proton exchange membranes based on the short-side-chain perfluorinated ionomer for high temperature direct methanol fuel cells. Desalination, 2006, 199, 271-273.	8.2	44
108	Investigation of Ptâ€“Fe catalysts for oxygen reduction in low temperature direct methanol fuel cells. Journal of Power Sources, 2006, 159, 900-904.	7.8	44

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109	Immobilized transition metal-based radical scavengers and their effect on durability of AquivionÂ® perfluorosulfonic acid membranes. Journal of Power Sources, 2016, 301, 317-325.	7.8	44
110	Investigation of Ptâ€"Ru nanoparticle catalysts for low temperature methanol electro-oxidation. Journal of Solid State Electrochemistry, 2007, 11, 1229-1238.	2.5	42
111	Performance analysis of Feâ€"Nâ€"C catalyst for DMFC cathodes: Effect of water saturation in the cathodic catalyst layer. International Journal of Hydrogen Energy, 2016, 41, 22605-22618.	7.1	42
112	Analysis of the chemical cross-over in a phosphotungstic acid electrolyte based fuel cell. Electrochimica Acta, 1997, 42, 1645-1652.	5.2	41
113	Direct utilization of methanol in solid oxide fuel cells: An electrochemical and catalytic study. International Journal of Hydrogen Energy, 2011, 36, 9977-9986.	7.1	41
114	Glycerol oxidation in solid oxide fuel cells based on a Ni-perovskite electrocatalyst. Biomass and Bioenergy, 2011, 35, 1075-1084.	5.7	41
115	A nanostructured bifunctional Pd/C gas-diffusion electrode for metal-air batteries. Electrochimica Acta, 2015, 174, 508-515.	5.2	41
116	Development and operation of a 150 W air-feed direct methanol fuel cell stack. Journal of Applied Electrochemistry, 2001, 31, 275-279.	2.9	40
117	Investigation of carbon-supported Pt and PtCo catalysts for oxygen reduction in direct methanol fuel cells. Electrochimica Acta, 2009, 54, 4844-4850.	5.2	40
118	Performance of a PEM water electrolyser combining an IrRu-oxide anode electrocatalyst and a short-side chain Aquivion membrane. International Journal of Hydrogen Energy, 2015, 40, 14430-14435.	7.1	40
119	Carbon-supported Pd and Pd-Co cathode catalysts for direct methanol fuel cells (DMFCs) operating with high methanol concentration. Journal of Electroanalytical Chemistry, 2018, 808, 464-473.	3.8	40
120	Investigation of the activity and stability of Pd-based catalysts towards the oxygen reduction (ORR) and evolution reactions (OER) in ironâ€"air batteries. RSC Advances, 2015, 5, 25424-25427.	3.6	39
121	Simple and functional direct methanol fuel cell stack designs for application in portable and auxiliary power units. International Journal of Hydrogen Energy, 2016, 41, 12320-12329.	7.1	39
122	Investigation of unsupported Ptâ€"Ru catalysts for high temperature methanol electro-oxidation. Electrochemistry Communications, 2000, 2, 466-470.	4.7	38
123	Electrochemical investigation of a propane-fed solid oxide fuel cell based on a composite Niâ€"perovskite anode catalyst. Applied Catalysis B: Environmental, 2009, 89, 49-57.	20.2	38
124	Bifunctional oxygen electrode based on a perovskite/carbon composite for electrochemical devices. Journal of Electroanalytical Chemistry, 2018, 808, 412-419.	3.8	37
125	Analysis of performance degradation during steady-state and load-thermal cycles of proton exchange membrane water electrolysis cells. Journal of Power Sources, 2020, 468, 228390.	7.8	37
126	The role of Pt-loading, thermal treatment and exposure to air on the acid-base behavior of a Pt/Carbon black catalyst. Carbon, 1990, 28, 599-609.	10.3	36

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127	Performance evaluation of a solid oxide fuel cell coupled to an external biogas tri-reforming process. Fuel Processing Technology, 2013, 115, 238-245.	7.2	36
128	NiCo-loaded carbon nanofibers obtained by electrospinning: Bifunctional behavior as air electrodes. Renewable Energy, 2018, 125, 250-259.	8.9	36
129	Methanol-Tolerant Mâ€"Nâ€"C Catalysts for Oxygen Reduction Reactions in Acidic Media and Their Application in Direct Methanol Fuel Cells. Catalysts, 2018, 8, 650.	3.5	36
130	A voltammetric study of the electrodeposition chemistry in the Feî—¸S system. Electrochimica Acta, 1991, 36, 581-590.	5.2	35
131	The role of Gadolinia Doped Ceria support on the promotion of CO2 methanation over Ni and Ni Fe catalysts. International Journal of Hydrogen Energy, 2017, 42, 26828-26842.	7.1	35
132	EDTA-derived Co N C and Fe N C electro-catalysts for the oxygen reduction reaction in acid environment. Renewable Energy, 2018, 120, 342-349.	8.9	35
133	Barrier properties of sulfonated polysulfone/layered double hydroxides nanocomposite membrane for direct methanol fuel cell operating at high methanol concentrations. International Journal of Hydrogen Energy, 2020, 45, 20647-20658.	7.1	35
134	Preparation and characterization of thin film ZnCuTe semiconductors. Solar Energy Materials and Solar Cells, 1998, 53, 255-267.	6.2	34
135	An NMR spectroscopic study of water and methanol transport properties in DMFC composite membranes: Influence on the electrochemical behaviour. Journal of Power Sources, 2006, 163, 52-55.	7.8	34
136	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, 2012, 37, 6253-6260.	7.1	33
137	Towards new generation fuel cell electrocatalysts based on xerogelâ€"nanofiber carbon composites. Journal of Materials Chemistry A, 2014, 2, 13713.	10.3	33
138	Oxidized carbon nanofibers supporting PtRu nanoparticles for direct methanol fuel cells. International Journal of Hydrogen Energy, 2014, 39, 5414-5423.	7.1	33
139	Thermoelectric characterization of an intermediate temperature solid oxide fuel cell system directly fed by dry biogas. Energy Conversion and Management, 2016, 127, 90-102.	9.2	33
140	Solid polymer electrolyte based on sulfonated polysulfone membranes and acidic silica for direct methanol fuel cells. Solid State Ionics, 2012, 216, 90-94.	2.7	32
141	Preparation and characterisation of Ti oxide based catalyst supports for low temperature fuel cells. International Journal of Hydrogen Energy, 2013, 38, 11600-11608.	7.1	32
142	Design and testing of a compact PEM electrolyzer system. International Journal of Hydrogen Energy, 2013, 38, 11519-11529.	7.1	32
143	Synthesis of Pd₃Co₁@Pt/C Coreâ€Shell Catalysts for Methanolâ€Tolerant Cathodes of Direct Methanol Fuel Cells. Chemistry - A European Journal, 2014, 20, 10679-10684.	3.3	32
144	ac Impedance spectroscopy of porous gas diffusion electrode in sulphuric acid. Electrochimica Acta, 1992, 37, 523-529.	5.2	31

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145	Ptâ€“Fe cathode catalysts to improve the oxygen reduction reaction and methanol tolerance in direct methanol fuel cells. Journal of Solid State Electrochemistry, 2008, 12, 643-649.	2.5	31
146	Endurance study of a solid polymer electrolyte direct ethanol fuel cell based on a Ptâ€“Sn anode catalyst. International Journal of Hydrogen Energy, 2013, 38, 11576-11582.	7.1	31
147	Enhancing ethanol oxidation rate at PtRu electro-catalysts using metal-oxide additives. Electrochimica Acta, 2016, 191, 183-191.	5.2	31
148	N-Doped Carbon Xerogels as Pt Support for the Electro-Reduction of Oxygen. Materials, 2017, 10, 1092.	2.9	31
149	PEM fuel cells analysis for grid connected applications. International Journal of Hydrogen Energy, 2011, 36, 10908-10916.	7.1	30
150	Oxide-supported PtCo alloy catalyst for intermediate temperature polymer electrolyte fuel cells. Applied Catalysis B: Environmental, 2013, 142-143, 15-24.	20.2	30
151	Investigation of Supported Pd-Based Electrocatalysts for the Oxygen Reduction Reaction: Performance, Durability and Methanol Tolerance. Materials, 2015, 8, 7997-8008.	2.9	30
152	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, 2015, 45, 647-656.	2.9	30
153	New insights on the co-electrolysis of CO2 and H2O through a solid oxide electrolyser operating at intermediate temperatures. Electrochimica Acta, 2019, 296, 458-464.	5.2	30
154	Flammability reduction in a pressurised water electrolyser based on a thin polymer electrolyte membrane through a Pt-alloy catalytic approach. Applied Catalysis B: Environmental, 2019, 246, 254-265.	20.2	30
155	Oxygen reduction kinetics in phosphotungstic acid at low temperature. Electrochimica Acta, 1993, 38, 1733-1741.	5.2	29
156	Composite anode electrode based on iridium oxide promoter for direct methanol fuel cells. Electrochimica Acta, 2014, 128, 304-310.	5.2	29
157	Grapheneâ€Supported Substoichiometric Sodium Tantalate as a Methanolâ€Tolerant, Nonâ€Nobleâ€Metal Catalyst for the Electroreduction of Oxygen. ChemCatChem, 2015, 7, 911-915.	3.7	29
158	Carbon-Supported Pd and PdFe Alloy Catalysts for Direct Methanol Fuel Cell Cathodes. Materials, 2017, 10, 580.	2.9	29
159	One-pot synthesis of naturanol from Î±-pinene oxide on bifunctional Pt-Sn/SiO2 heterogeneous catalysts. Applied Catalysis A: General, 2007, 325, 15-24.	4.3	28
160	Propane conversion over a Ru/CGO catalyst and its application in intermediate temperature solid oxide fuel cells. Journal of Applied Electrochemistry, 2007, 37, 203-208.	2.9	28
161	Design of efficient methanol impermeable membranes for fuel cell applications. Physical Chemistry Chemical Physics, 2012, 14, 2718.	2.8	28
162	Metal oxide promoters for methanol electro-oxidation. International Journal of Hydrogen Energy, 2014, 39, 9782-9790.	7.1	28

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163	Reduced methanol crossover and enhanced proton transport in nanocomposite membranes based on clayâˆ'CNTs hybrid materials for direct methanol fuel cells. Ionics, 2017, 23, 2113-2123.	2.4	28
164	High performance solid-state iron-air rechargeable ceramic battery operating at intermediate temperatures (500â€"650â€¯Â°C). Applied Energy, 2019, 233-234, 386-394.	10.1	28
165	Investigation of sulfonated polysulfone membranes as electrolyte in a passive-mode direct methanol fuel cell mini-stack. Journal of Power Sources, 2010, 195, 7727-7733.	7.8	27
166	Biogas-fed solid oxide fuel cell (SOFC) coupled to tri-reformingÂprocess: Modelling and simulation. International Journal of Hydrogen Energy, 2015, 40, 14640-14650.	7.1	27
167	Investigation of PtNi/C as methanol tolerant electrocatalyst for the oxygen reduction reaction. Journal of Electroanalytical Chemistry, 2016, 763, 10-17.	3.8	27
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