

Stylianos Neophytides

List of Publications by Year in descending order

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140
papers

4,672
citations

87723

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118652

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140
all docs

140
docs citations

140
times ranked

4988
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver-modified titanium dioxide thin films for efficient photodegradation of methyl orange. <i>Applied Catalysis B: Environmental</i> , 2003, 42, 187-201.	10.8	424
2	Characterization and photocatalytic activity of Au/TiO ₂ thin films for azo-dye degradation. <i>Journal of Catalysis</i> , 2003, 220, 127-135.	3.1	408
3	Methanol synthesis by means of diffuse reflectance infrared Fourier transform and temperature-programmed reaction spectroscopy. <i>Applied Catalysis A: General</i> , 1992, 86, 45-64.	2.2	96
4	Carbon tolerant Ni-Au SOFC electrodes operating under internal steam reforming conditions. <i>Journal of Catalysis</i> , 2008, 259, 75-84.	3.1	92
5	Dissociative adsorption of CH ₄ on NiAu/YSZ: The nature of adsorbed carbonaceous species and the inhibition of graphitic C formation. <i>Journal of Catalysis</i> , 2006, 239, 187-199.	3.1	89
6	Smart Polymer Surfaces. <i>Macromolecules</i> , 2003, 36, 1994-1999.	2.2	87
7	The effect of Mo oxides and TiO ₂ support on the chemisorption features of linearly adsorbed CO on Pt crystallites: an infrared and photoelectron spectroscopy study. <i>Journal of Catalysis</i> , 2005, 232, 127-136.	3.1	85
8	The interaction of water vapors with H ₃ PO ₄ imbibed electrolyte based on PBI/polysulfone copolymer blends. <i>Journal of Membrane Science</i> , 2009, 326, 76-83.	4.1	84
9	An efficient photoelectrochemical cell functioning in the presence of organic wastes. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 592-597.	3.0	78
10	Ceria-based fluorite-like oxide solid solutions as catalysts of methane selective oxidation into syngas by the lattice oxygen: synthesis, characterization and performance. <i>Catalysis Today</i> , 2004, 93-95, 45-53.	2.2	71
11	Advances in interactive supported electrocatalysts for hydrogen and oxygen electrode reactions. <i>Surface Science</i> , 2007, 601, 1949-1966.	0.8	70
12	Partial Oxidation of Methane to Synthesis Gas over Ru/TiO ₂ Catalysts: Effects of Modification of the Support on Oxidation State and Catalytic Performance. <i>Journal of Catalysis</i> , 2001, 198, 195-207.	3.1	66
13	Polymer electrolyte membranes for high-temperature fuel cells based on aromatic polyethers bearing pyridine units. <i>Polymer International</i> , 2009, 58, 1226-1233.	1.6	65
14	Non-faradaic electrochemical modification of catalytic activity 2. The case of methanol dehydrogenation and decomposition on Ag. <i>Journal of Catalysis</i> , 1989, 118, 147-163.	3.1	64
15	Composite Hypo-Hyper-d-Intermetallic and Interionic Phases as Supported Interactive Electrocatalysts. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3030-3042.	1.2	64
16	Au-doped Ni/GDC as a new anode for SOFCs operating under rich CH ₄ internal steam reforming. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 7898-7904.	3.8	62
17	Cross-Linking of Side Chain Unsaturated Aromatic Polyethers for High Temperature Polymer Electrolyte Membrane Fuel Cell Applications. <i>Macromolecules</i> , 2011, 44, 4942-4951.	2.2	62
18	Solid electrolyte aided study of the mechanism of CO oxidation on polycrystalline platinum. <i>Journal of Catalysis</i> , 1988, 111, 152-169.	3.1	61

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19	The nature and binding strength of carbon adspecies formed during the equilibrium dissociative adsorption of CH ₄ on Ni-YSZ cermet catalysts. <i>Journal of Catalysis</i> , 2003, 217, 324-333.	3.1	61
20	On the Active Surface State of Nickel-Ceria Solid Oxide Fuel Cell Anodes During Methane Electrooxidation. <i>Advanced Energy Materials</i> , 2013, 3, 762-769.	10.2	61
21	Spillover of primary oxides as a dynamic catalytic effect of interactive hypo-d-oxide supports. <i>Electrochimica Acta</i> , 2007, 53, 349-361.	2.6	60
22	Preparation and characterization of Pt on modified multi-wall carbon nanotubes to be used as electrocatalysts for high temperature fuel cell applications. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 379-389.	10.8	56
23	Fuel cells are a commercially viable alternative for the production of clean energy. <i>Ambio</i> , 2016, 45, 32-37.	2.8	55
24	Catalysis, electrocatalysis and electrochemical promotion of the steam reforming of methane over Ni film and Ni-YSZ cermet anodes. <i>Ionics</i> , 1995, 1, 491-498.	1.2	53
25	Intrinsic Kinetics of the Internal Steam Reforming of CH ₄ over a Ni-YSZ Cermet Catalyst Electrode. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 4920-4927.	1.8	52
26	Reforming methanol to electricity in a high temperature PEM fuel cell. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 628-632.	10.8	52
27	Non-faradaic electrochemical modification of catalytic activity in solid electrolyte cells. <i>Applied Physics A: Solids and Surfaces</i> , 1989, 49, 95-103.	1.4	51
28	Fuel-rich methane combustion: Role of the Pt dispersion and oxygen mobility in a fluorite-like complex oxide support. <i>Catalysis Today</i> , 2006, 117, 475-483.	2.2	51
29	Comparative study of La-Sr-Fe-O perovskite-type oxides prepared by ceramic and surfactant methods over the CH ₄ and H ₂ lean-deNO _x . <i>Applied Catalysis B: Environmental</i> , 2009, 93, 1-11.	10.8	51
30	Influence of the morphology of ZnO nanowires on the photoelectrochemical water splitting efficiency. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4866-4879.	3.8	51
31	Non-faradaic electrochemical modification of catalytic activity III. The case of methanol oxidation on Pt. <i>Journal of Catalysis</i> , 1991, 127, 645-664.	3.1	48
32	Electrochemical promotion in catalysis: non-faradaic electrochemical modification of catalytic activity. <i>Electrochimica Acta</i> , 1994, 39, 1849-1855.	2.6	47
33	Temperature-Programmed Desorption of Oxygen from Pt Films Interfaced with Y ₂ O ₃ -Doped ZrO ₂ . <i>Journal of Catalysis</i> , 1998, 178, 414-428.	3.1	47
34	Novel Pyridine-Based Poly(ether sulfones) and their Study in High Temperature PEM Fuel Cells. <i>Macromolecules</i> , 2008, 41, 9051-9056.	2.2	47
35	Selective Interactive Grafting of Composite Bifunctional Electrocatalysts for Simultaneous Anodic Hydrogen and CO Oxidation. <i>Journal of the Electrochemical Society</i> , 2003, 150, E512.	1.3	45
36	High performance polymer electrolytes based on main and side chain pyridine aromatic polyethers for high and medium temperature proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 9382-9390.	4.0	45

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37	A bench scale study of reversed flow methanol synthesis. <i>Industrial & Engineering Chemistry Research</i> , 1992, 31, 1583-1589.	1.8	42
38	Mathematical modeling of Ni/GDC and Au–Ni/GDC SOFC anodes performance under internal methane steam reforming conditions. <i>Journal of Catalysis</i> , 2013, 306, 116-128.	3.1	42
39	Structural effects on kinetic properties for hydrogen electrode reactions and CO tolerance along Mo–Pt phase diagram. <i>Surface Science</i> , 2005, 598, 156-173.	0.8	41
40	In situ hydrogen utilization in an internal reforming methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18103-18108.	3.8	40
41	Extended Brewer hypo-hyper-interionic bonding theory II. Strong metal-support interaction grafting of composite electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 393-410.	3.8	38
42	Performance of laboratory polymer electrolyte membrane hydrogen generator with sputtered iridium oxide anode. <i>Journal of Power Sources</i> , 2008, 185, 1073-1078.	4.0	37
43	Extended Brewer hypo-hyper-interionic bonding theory ? I. Theoretical considerations and examples for its experimental confirmation. <i>International Journal of Hydrogen Energy</i> , 2005, 30, 131-147.	3.8	36
44	Development of an internal reforming alcohol fuel cell: Concept, challenges and opportunities. <i>Chemical Engineering Journal</i> , 2011, 176-177, 95-101.	6.6	36
45	Covalent cross-linking in phosphoric acid of pyridine based aromatic polyethers bearing side double bonds for use in high temperature polymer electrolyte membrane fuelcells. <i>Journal of Membrane Science</i> , 2013, 433, 1-9.	4.1	36
46	The interaction of H ₃ PO ₄ and steam with PBI and TPS polymeric membranes. A TGA and Raman study. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1117-1127.	5.2	36
47	Electrochemical Impedance Spectroscopy study in micro-grain structured amorphous silicon anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 331, 285-292.	4.0	36
48	Cross-linked high temperature polymer electrolytes through oxadiazole bond formation and their applications in HT PEM fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1613-1622.	5.2	34
49	<i>In situ</i> investigation of dissociation and migration phenomena at the Pt/electrolyte interface of an electrochemical cell. <i>Chemical Science</i> , 2015, 6, 5635-5642.	3.7	34
50	Highly dispersed platinum supported catalysts – Effect of properties on the electrocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118050.	10.8	32
51	Performance evaluation of a proof-of-concept 70ÂW internal reforming methanol fuel cell system. <i>Journal of Power Sources</i> , 2016, 307, 875-882.	4.0	31
52	Proton tunneling-induced bistability, oscillations and enhanced performance of PEM fuel cells. <i>Applied Catalysis B: Environmental</i> , 2005, 56, 251-258.	10.8	29
53	Synthesis and characterization of doped apatite-type lanthanum silicates for SOFC applications. <i>Solid State Ionics</i> , 2011, 192, 158-162.	1.3	29
54	The role of phosphoric acid in the anodic electrocatalytic layer in high temperature PEM fuel cells. <i>Journal of Applied Electrochemistry</i> , 2013, 43, 1101-1116.	1.5	29

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55	Steam Reforming of Methanol over Nanostructured Pt/TiO ₂ and Pt/CeO ₂ Catalysts for Fuel Cell Applications. <i>Catalysts</i> , 2018, 8, 544.	1.6	27
56	Chemical Cogeneration in Solid Electrolyte Cells: The Oxidation of to. <i>Journal of the Electrochemical Society</i> , 1990, 137, 839-845.	1.3	26
57	Efficiency of a solid polymer fuel cell operating on ethanol. <i>Journal of Power Sources</i> , 2000, 91, 150-156.	4.0	26
58	Mechanosynthesis of complex oxides and preparation of mixed conducting nanocomposites for catalytic membrane reactors. <i>Catalysis Today</i> , 2005, 104, 114-119.	2.2	26
59	Preparation and ion transport properties of NaY zeolite-ionic liquid composites. <i>Journal of Power Sources</i> , 2011, 196, 2202-2210.	4.0	26
60	Study of the synergistic interaction between nickel, gold and molybdenum in novel modified NiO/GDC cermets, possible anode materials for CH ₄ fueled SOFCs. <i>Applied Catalysis A: General</i> , 2013, 456, 223-232.	2.2	26
61	Experimental Clarification of the RWGS Reaction Effect in H ₂ O/CO ₂ SOEC Co-Electrolysis Conditions. <i>Catalysts</i> , 2019, 9, 151.	1.6	26
62	New High Temperature Polymer Electrolyte Membranes. Influence of the Chemical Structure on their Properties. <i>Fuel Cells</i> , 2008, 8, 200-208.	1.5	25
63	Effect of the conditions of platinum deposition on titania nanocrystalline films on the efficiency of photocatalytic oxidation of ethanol and production of hydrogen. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 639-643.	1.6	25
64	The reversed flow operation of a crossflow solid oxide fuel cell monolith. <i>Chemical Engineering Science</i> , 1999, 54, 4603-4613.	1.9	24
65	Mechanosynthesis of complex oxides with fluorite and perovskite-related structures and their sintering into nanocomposites with mixed ionic-electronic conductivity. <i>Solid State Ionics</i> , 2005, 176, 2813-2818.	1.3	24
66	New proton conducting polymer blends and their fuel cell performance. <i>Journal of Power Sources</i> , 2010, 195, 170-174.	4.0	24
67	Performance of internal reforming methanol fuel cell under various methanol/water concentrations. <i>Journal of Applied Electrochemistry</i> , 2012, 42, 719-726.	1.5	23
68	Scanning Photoelectron Microscopy Study of the Pt/Phosphoric Acid-Imbibed Membrane Interface under Polarization. <i>ChemElectroChem</i> , 2014, 1, 180-186.	1.7	23
69	Insights on the effective incorporation of a foam-based methanol reformer in a high temperature polymer electrolyte membrane fuel cell. <i>Journal of Power Sources</i> , 2015, 296, 335-343.	4.0	23
70	The structure and stability of the anodic electrochemical interface in a high temperature polymer electrolyte membrane fuel cell under reformat feed. <i>Journal of Power Sources</i> , 2015, 285, 499-509.	4.0	23
71	Electrocatalytic performance and carbon tolerance of ternary Au-Mo-Ni/GDC SOFC anodes under CH ₄ -rich Internal Steam Reforming conditions. <i>Catalysis Today</i> , 2018, 310, 157-165.	2.2	23
72	AC impedance study of Ni-YSZ cermet anodes in methane-fuelled internal reforming YSZ fuel cells. <i>Solid State Ionics</i> , 2002, 152-153, 447-453.	1.3	22

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73	Advanced catalytic layer architectures for polymer electrolyte membrane fuel cells. Wiley Interdisciplinary Reviews: Energy and Environment, 2014, 3, 505-521.	1.9	22
74	Thermal crosslinking of aromatic polyethers bearing pyridine groups for use as high temperature polymer electrolytes. Journal of Membrane Science, 2012, 415-416, 42-50.	4.1	21
75	Thermogravimetric and Electrocatalytic Study of Carbon Deposition of Ag-doped Ni/YSZ Electrodes under Internal CH ₄ Steam Reforming Conditions. Fuel Cells, 2009, 9, 883-890.	1.5	20
76	A comparative in situ XPS study of PtRuCo catalyst in methanol steam reforming and water gas shift reactions. Catalysis Today, 2010, 157, 250-256.	2.2	20
77	Mitigation strategy towards stabilizing the Electrochemical Interface under high CO and H ₂ O containing reformat gas feed. Electrochimica Acta, 2017, 233, 218-228.	2.6	20
78	Reactivity of surface and bulk oxygen in La _{1-x} CaxFeO ₃ -system with respect to methane oxidation. Reaction Kinetics and Catalysis Letters, 2004, 81, 393-398.	0.6	19
79	Methane oxidation on composite ruthenium electrodes in YSZ cells. Solid State Ionics, 2006, 177, 2087-2091.	1.3	19
80	Methane transformation into syngas over Ce-Zr-O systems: role of the surface/bulk promoters and oxygen mobility. Catalysis Today, 2004, 91-92, 161-164.	2.2	18
81	The Electrokinetics of CO Oxidation on Pt ₄ Mo(20wt%,%) [~] C Interfaced with Nafion Membrane. Journal of the Electrochemical Society, 2007, 154, B989.	1.3	18
82	Electronic structure modifications and HER of annealed electrodeposited Ni overlayers on Mo polycrystalline surface. Electrochimica Acta, 2008, 53, 8015-8025.	2.6	17
83	Crosslinked polymer electrolytes of high pyridine contents for HT-PEM fuel cells. International Journal of Hydrogen Energy, 2020, 45, 35053-35063.	3.8	17
84	XPS characterization of the electrochemically generated O species on a Au electrode evaporated on Y ₂ O ₃ -stabilized ZrO ₂ (100). Solid State Ionics, 2000, 136-137, 801-806.	1.3	16
85	Polymer blends based on copolymers bearing both side and main chain pyridine units as proton exchange membranes for high temperature fuel cells. Journal of Membrane Science, 2012, 396, 57-66.	4.1	16
86	Synthesis and properties of aromatic polyethers containing poly(ethylene oxide) side chains as polymer electrolytes for lithium ion batteries. Materials Chemistry and Physics, 2014, 148, 57-66.	2.0	16
87	Properties of Ce-Zr-La-O nano-system with ruthenium modified surface. Progress in Solid State Chemistry, 2005, 33, 317-325.	3.9	15
88	Photoelectrocatalytic Electricity and/or H ₂ Production from Alcohols: The Effect of TiO ₂ Film Thickness. Journal of the Electrochemical Society, 2011, 158, H183.	1.3	15
89	Investigation of electrochemical promotion using temperature-programmed desorption and work function measurements. Solid State Ionics, 2000, 136-137, 839-847.	1.3	14
90	Mobility and reactivity of lattice oxygen in Gd-doped ceria promoted by Pt. Reaction Kinetics and Catalysis Letters, 2005, 85, 367-374.	0.6	14

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91	Mobility and reactivity of the lattice oxygen of Pr-doped ceria promoted with Pt. Reaction Kinetics and Catalysis Letters, 2005, 86, 21-28.	0.6	14
92	Technological aspects of an auxiliary power unit with internal reforming methanol fuel cell. International Journal of Hydrogen Energy, 2019, 44, 12818-12828.	3.8	14
93	Unsteady state operation of catalytic particles with constant and periodically changing degree of external wetting. Chemical Engineering Science, 1998, 53, 3129-3142.	1.9	13
94	On the kinetics of photoelectrocatalytic water splitting on nanocrystalline TiO ₂ films. Applied Catalysis B: Environmental, 2013, 132-133, 543-552.	10.8	13
95	Polymer electrolyte membranes based on blends of sulfonated polysulfone and PEO grafted polyethersulfone for low temperature water electrolysis. Journal of Applied Polymer Science, 2014, 131, .	1.3	13
96	Effect of Au and/or Mo Doping on the Development of Carbon and Sulfur Tolerant Anodes for SOFCs – A Short Review. Frontiers in Environmental Science, 2017, 5, .	1.5	13
97	The effect of catalyst-electrode potential and work function on the chemisorptive bond of oxygen on Pt interfaced with YSZ. Ionics, 1995, 1, 80-84.	1.2	12
98	Structural features and the lattice oxygen reactivity of low-temperature lanthanum manganites doped with different cations. Reaction Kinetics and Catalysis Letters, 2005, 86, 249-256.	0.6	11
99	The photo-electrokinetics of the O ₂ evolution reaction on ZnO nanorods. Electrochimica Acta, 2019, 298, 587-598.	2.6	10
100	The promoting effect of Fe on Ni/ GDC for the Solid Oxide H ₂ O electrolysis. International Journal of Energy Research, 2020, 44, 10982-10995.	2.2	10
101	How the surface state of nickel/gadolinium-doped ceria cathodes influences the electrochemical performance in direct CO ₂ electrolysis. Journal of Catalysis, 2021, 404, 518-528.	3.1	10
102	A photoelectron spectroscopy study of Au thin films on ZrO ₂ (100). Thin Solid Films, 2001, 386, 53-58.	0.8	9
103	Nickel Electrodeposition on a Gold Polycrystalline Foil: A Combined Voltammetric and Photoelectron Spectroscopy Study. Journal of Physical Chemistry B, 2004, 108, 1371-1379.	1.2	9
104	Non-Faradaic electrochemical modification of catalytic activity: the work function of metal electrodes in solid electrolyte cells. Solid State Ionics, 1992, 53-56, 97-110.	1.3	8
105	Thermal stability of electrodeposited nickel on vanadium: evidence for oxygen diffusion and intermetallic phase formation. Surface Science, 2004, 552, 215-228.	0.8	8
106	Combined XPS, electrochemical and Kelvin probe measurements of NaY zeolite. Solid State Ionics, 2006, 177, 971-977.	1.3	8
107	Promotional effects on a PtRu/C catalyst-electrode interfaced with aqueous electrolytes: electrochemical metal support interaction (EMSI) and electrochemical promotion of catalysis (EPOC). Topics in Catalysis, 2007, 44, 451-460.	1.3	8
108	Characterization and Carbon Tolerance of New Au - Mo - Ni/GDC Cermet Powders for use as Anode Materials in Methane Fuelled SOFCs. ECS Transactions, 2011, 35, 1329-1336.	0.3	8

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109	Steam effect on Gerischer impedance response of a Ni/GDC YSZ LSM fuel cell / anode. Journal of Power Sources, 2020, 448, 227404.	4.0	8
110	Synthesis and sintering of ceramic nanocomposites with high mixed conductivity. Science of Sintering, 2005, 37, 45-54.	0.5	8
111	The transient operation of a solid oxide fuel cell monolith under forced periodic reversal of the flow. Canadian Journal of Chemical Engineering, 1996, 74, 719-728.	0.9	7
112	Effect of the lattice oxygen mobility on the activity of Gd-doped ceria promoted with pt in syngas generation from methane at short contact times. Reaction Kinetics and Catalysis Letters, 2005, 85, 375-382.	0.6	7
113	Numerical simulation of methane fuelled cogenerative SOFCs for the production of synthesis gas and electrical energy. Chemical Engineering Science, 2007, 62, 3868-3881.	1.9	7
114	The electrochemical interface of the cathode in high temperature PEM fuel cells. Electrochimica Acta, 2020, 356, 136778.	2.6	7
115	Underpotential deposition of hydrogen on MoPt ₄ intermetallic phase in acid solution: temperature dependence. International Journal of Hydrogen Energy, 2004, 29, 835-842.	3.8	6
116	Effect of the surface/bulk doping of lanthanum manganite on the oxygen mobility, reactivity and catalytic activity in the CO oxidation. Reaction Kinetics and Catalysis Letters, 2005, 86, 257-265.	0.6	6
117	Non Noble Metal Electrocatalysts for High Temperature PEM Fuel Cells. ECS Transactions, 2009, 25, 181-189.	0.3	6
118	In Situ Controlled Promotion of Catalyst Surfaces Via Solid Electrolytes: The NEMCA Effect. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1995, 99, 1393-1401.	0.9	5
119	Performance of Pr-doped ceria promoted by Pt in syngas generation from methane at short contact times. Reaction Kinetics and Catalysis Letters, 2005, 86, 29-36.	0.6	5
120	High Tolerant to Carbon Deposition Ni-based Electrodes under Internal Steam Reforming Conditions. ECS Transactions, 2007, 7, 1483-1490.	0.3	5
121	Electrochemical Performance of Sn/C Nanocomposites Interphased with Varying Mixtures of Ethyl-, Dimethyl- and Vinylene-Carbonate. Journal of the Electrochemical Society, 2016, 163, A1013-A1019.	1.3	5
122	Electrochemical promotion of catalyst surfaces deposited on ionic and mixed conductors. Ionics, 1995, 1, 414-420.	1.2	4
123	Photo-Induced Alcohol Electro-Reforming for H ₂ Production. ECS Transactions, 2010, 25, 63-72.	0.3	4
124	6 Materials, Proton Conductivity and Electrocatalysis in High-Temperature PEM Fuel Cells. Modern Aspects of Electrochemistry, 2011, , 301-368.	0.2	4
125	A new in-situ spectroelectrochemical setup for FTIR measurements in operating high temperature polymer electrolyte fuel cells. Electrochemistry Communications, 2013, 34, 200-203.	2.3	4
126	Modified NiO/GDC Cermets as Possible Cathode Electrocatalysts for H ₂ O Electrolysis and H ₂ /CO/CO ₂ -Co-Electrolysis Processes in SOECs. ECS Transactions, 2017, 78, 3267-3274.	0.3	4

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127	Ion spillover as the origin of the NEMCA effect. <i>Studies in Surface Science and Catalysis</i> , 1993, , 111-116.	1.5	3
128	Solid Oxide Fuel Cells: On the Active Surface State of Nickel–Cerium Solid Oxide Fuel Cell Anodes During Methane Electrooxidation (<i>Adv. Energy Mater.</i> 6/2013). <i>Advanced Energy Materials</i> , 2013, 3, 690-690.	10.2	3
129	The In Situ Electrochemical Stable Promotion of Photoelectrocatalytic Activity of TiO ₂ by Pulsed Reductive Doping: Application in Photoelectrochemical Water Splitting. <i>Journal of the Electrochemical Society</i> , 2015, 162, H397-H402.	1.3	3
130	Pyridine Containing Aromatic Polyether Membranes. , 2016, , 91-126.		3
131	Methane selective oxidation into syngas by the lattice oxygen in ceria-based solid electrolytes promoted by Pt. <i>Studies in Surface Science and Catalysis</i> , 2004, 147, 241-246.	1.5	2
132	Proton Conduction Mechanism in H ₃ PO ₄ Imbibed PEMs: The Effect of Chemical Structure and Steam. <i>ECS Transactions</i> , 2010, 33, 785-796.	0.3	2
133	Editorial: Advanced Utilization and Management of Biogas. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	2
134	Specificity of the Local Structure of Nanocrystalline Doped Ceria Solid Electrolytes. <i>Materials Research Society Symposia Proceedings</i> , 2004, 835, K3.6.1.	0.1	1
135	Influence of the Molecular Structure on the Properties and Fuel Cell Performance of High Temperature Polymer Electrolyte Membranes. <i>ECS Transactions</i> , 2010, 33, 811-822.	0.3	1
136	High Temperature PEM Fuel Cell Stacks with Advent TPS Meas. <i>E3S Web of Conferences</i> , 2017, 16, 10002.	0.2	1
137	A bench scale study of reversed flow methanol synthesis. [Erratum to document cited in CA117(4):29174e]. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 396-396.	1.8	0
138	Investigation of Advanced Components in a High Pressure Single-Cell Electrolyser for the Development of a HP-PEM-ELY Stack as Part of a Regenerative Fuel Cell System. <i>E3S Web of Conferences</i> , 2017, 16, 09004.	0.2	0
139	Simulation of HT-PEMFC AC Impedance Spectra: Relaxation Impedance and Identification of Oxygen Reduction Reaction Mechanism. <i>ECS Transactions</i> , 2017, 80, 37-56.	0.3	0
140	Structural effects on kinetic properties for hydrogen electrode reactions and CO tolerance along Mo-Pt phase diagram. <i>Chemical Industry and Chemical Engineering Quarterly</i> , 2005, 11, 129-136.	0.4	0