San Ping Jiang

List of Publications by Year
in descending order

457 papers	27,797 citations	4955 84 h-index	11047 137 g-index
483 all docs	483 docs citations	483 times ranked	20759 citing authors

#	Article	IF	Citations
1	Development of lanthanum strontium manganite perovskite cathode materials of solid oxide fuel cells: a review. Journal of Materials Science, 2008, 43, 6799-6833.	1.7	582
2	A review of anode materials development in solid oxide fuel cells. Journal of Materials Science, 2004, 39, 4405-4439.	1.7	540
3	Nanoscale and nano-structured electrodes of solid oxide fuel cells by infiltration: Advances and challenges. International Journal of Hydrogen Energy, 2012, 37, 449-470.	3.8	469
4	Atomically Dispersed Transition Metals on Carbon Nanotubes with Ultrahigh Loading for Selective Electrochemical Carbon Dioxide Reduction. Advanced Materials, 2018, 30, e1706287.	11.1	459
5	A review of wet impregnationâ€"An alternative method for the fabrication of high performance and nano-structured electrodes of solid oxide fuel cells. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 418, 199-210.	2.6	407
6	Theoretical Calculation Guided Design of Single-Atom Catalysts toward Fast Kinetic and Long-Life Liâ€"S Batteries. Nano Letters, 2020, 20, 1252-1261.	4.5	394
7	Nitrogenâ€Doped Nanoporous Carbon/Graphene Nanoâ€Sandwiches: Synthesis and Application for Efficient Oxygen Reduction. Advanced Functional Materials, 2015, 25, 5768-5777.	7.8	384
8	Synthesis and Characterization of Platinum Catalysts on Multiwalled Carbon Nanotubes by Intermittent Microwave Irradiation for Fuel Cell Applications. Journal of Physical Chemistry B, 2006, 110, 5343-5350.	1.2	372
9	Oxide (CeO2, NiO, Co3O4 and Mn3O4)-promoted Pd/C electrocatalysts for alcohol electrooxidation in alkaline media. Electrochimica Acta, 2008, 53, 2610-2618.	2.6	357
10	A degradation study of Nafion proton exchange membrane of PEM fuel cells. Journal of Power Sources, 2007, 170, 85-92.	4.0	347
11	Chromium deposition and poisoning of cathodes of solid oxide fuel cells â€" A review. International Journal of Hydrogen Energy, 2014, 39, 505-531.	3.8	319
12	Development of lanthanum strontium cobalt ferrite perovskite electrodes of solid oxide fuel cells â€" A review. International Journal of Hydrogen Energy, 2019, 44, 7448-7493.	3.8	287
13	Unsaturated edge-anchored Ni single atoms on porous microwave exfoliated graphene oxide for electrochemical CO2. Applied Catalysis B: Environmental, 2019, 243, 294-303.	10.8	243
14	Photoelectrochemical Synthesis of Ammonia on the Aerophilic-Hydrophilic Heterostructure with 37.8% Efficiency. CheM, 2019, 5, 617-633.	5.8	241
15	Electrocatalytic Activity and Interconnectivity of Pt Nanoparticles on Multiwalled Carbon Nanotubes for Fuel Cells. Journal of Physical Chemistry C, 2009, 113, 18935-18945.	1.5	239
16	Prospects of fuel cell technologies. National Science Review, 2017, 4, 163-166.	4.6	238
17	Layer-by-layer self-assembly in the development of electrochemical energy conversion and storage devices from fuel cells to supercapacitors. Chemical Society Reviews, 2012, 41, 7291.	18.7	234
18	Kinetics of ethanol electrooxidation at Pd electrodeposited on Ti. Electrochemistry Communications, 2007, 9, 2334-2339.	2.3	221

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19	Advances in electrocatalysts for oxygen evolution reaction of water electrolysis-from metal oxides to carbon nanotubes. Progress in Natural Science: Materials International, 2015, 25, 545-553.	1.8	218
20	A Versatile Ironâ€“Tanninâ€Framework Ink Coating Strategy to Fabricate Biomassâ€Derived Iron Carbide/Feâ€Nâ€Carbon Catalysts for Efficient Oxygen Reduction. Angewandte Chemie - International Edition, 2016, 55, 1355-1359.	7.2	216
21	Metal-organic frameworks derived porous carbon, metal oxides and metal sulfides-based compounds for supercapacitors application. Energy Storage Materials, 2020, 26, 1-22.	9.5	208
22	Unique MOF-derived hierarchical MnO₂ nanotubes@NiCo-LDH/CoS₂ nanocage materials as high performance supercapacitors. Journal of Materials Chemistry A, 2019, 7, 12018-12028.	5.2	207
23	PtRu Nanoparticles Supported on 1-Aminopyrene-Functionalized Multiwalled Carbon Nanotubes and Their Electrocatalytic Activity for Methanol Oxidation. Langmuir, 2008, 24, 10505-10512.	1.6	205
24	From waste Coca ColaÂ® to activated carbons with impressive capabilities for CO2 adsorption and supercapacitors. Carbon, 2017, 116, 490-499.	5.4	188
25	Deposition of Chromium Species at Sr-Doped LaMnO[sub 3] Electrodes in Solid Oxide Fuel Cells. I. Mechanism and Kinetics. Journal of the Electrochemical Society, 2000, 147, 4013.	1.3	184
26	Hydrothermal Synthesis of Metalâ€“Polyphenol Coordination Crystals and Their Derived Metal/Nâ€doped Carbon Composites for Oxygen Electrocatalysis. Angewandte Chemie - International Edition, 2016, 55, 12470-12474.	7.2	178
27	Failure mechanism of (La,Sr)MnO3 oxygen electrodes of solid oxide electrolysis cells. International Journal of Hydrogen Energy, 2011, 36, 10541-10549.	3.8	176
28	Deposition of Cr Species at (La,Sr)(Co,Fe)O[sub 3] Cathodes of Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2006, 153, A127.	1.3	171
29	Microwave-assisted one-pot synthesis of metal/metal oxide nanoparticles on graphene and their electrochemical applications. Electrochimica Acta, 2011, 56, 3338-3344.	2.6	170
30	Electrocatalysis of carbon black- or activated carbon nanotubes-supported Pdâ€“Ag towards methanol oxidation in alkaline media. International Journal of Hydrogen Energy, 2010, 35, 10087-10093.	3.8	168
31	Electrical conductivity and performance of doped LaCrO3 perovskite oxides for solid oxide fuel cells. Journal of Power Sources, 2008, 176, 82-89.	4.0	167
32	Iron Single Atoms on Graphene as Nonprecious Metal Catalysts for Highâ€Temperature Polymer Electrolyte Membrane Fuel Cells. Advanced Science, 2019, 6, 1802066.	5.6	164
33	Graphene oxide/coreâ€“shell structured metalâ€“organic framework nano-sandwiches and their derived cobalt/N-doped carbon nanosheets for oxygen reduction reactions. Journal of Materials Chemistry A, 2017, 5, 10182-10189.	5.2	163
34	Reviewâ€"Materials Degradation of Solid Oxide Electrolysis Cells. Journal of the Electrochemical Society, 2016, 163, F3070-F3083.	1.3	162
35	NiO/Graphene Composite for Enhanced Charge Separation and Collection in p-Type Dye Sensitized Solar Cell. Journal of Physical Chemistry C, 2011, 115, 12209-12215.	1.5	160
36	Crystalline TiO2 protective layer with graded oxygen defects for efficient and stable silicon-based photocathode. Nature Communications, 2018, 9, 3572.	5.8	159

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37	A mechanistic study on the activation process of (La, Sr)MnO3 electrodes of solid oxide fuel cells. Solid State Ionics, 2006, 177, 1361-1369.	1.3	158
38	Supported Single Atoms as New Class of Catalysts for Electrochemical Reduction of Carbon Dioxide. Small Methods, 2019, 3, 1800440.	4.6	155
39	Hierarchical mesoporous yolkâ€“shell structured carbonaceous nanospheres for high performance electrochemical capacitive energy storage. Chemical Communications, 2015, 51, 2518-2521.	2.2	151
40	Pd/Pt coreâ€“shell nanowire arrays as highly effective electrocatalysts for methanol electrooxidation in direct methanol fuel cells. Electrochemistry Communications, 2008, 10, 1575-1578.	2.3	150
41	Insight into Proton Transfer in Phosphotungstic Acid Functionalized Mesoporous Silica-Based Proton Exchange Membrane Fuel Cells. Journal of the American Chemical Society, 2014, 136, 4954-4964.	6.6	147
42	Tuning the Electron Localization of Gold Enables the Control of Nitrogenâ€toâ€Ammonia Fixation. Angewandte Chemie - International Edition, 2019, 58, 18604-18609.	7.2	146
43	Self-assembly of mixed Pt and Au nanoparticles on PDDA-functionalized graphene as effective electrocatalysts for formic acid oxidation of fuel cells. Physical Chemistry Chemical Physics, 2011, 13, 6883.	1.3	144
44	Mechanism of Cr deposition and its application in the development of Cr-tolerant cathodes of solid oxide fuel cells. Solid State Ionics, 2008, 179, 1459-1464.	1.3	141
45	HPW/MCMâ€41 Phosphotungstic Acid/Mesoporous Silica Composites as Novel Protonâ€Exchange Membranes for Elevatedâ€Temperature Fuel Cells. Advanced Materials, 2010, 22, 971-976.	11.1	141
46	Metalâ€“polydopamine frameworks and their transformation to hollow metal/N-doped carbon particles. Nanoscale, 2017, 9, 5323-5328.	2.8	140
47	Fabrication and Performance of GDC-Impregnated (La,Sr)MnO[sub 3] Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2005, 152, A1398.	1.3	139
48	Polyelectrolyte functionalized carbon nanotubes as a support for noble metal electrocatalysts and their activity for methanol oxidation. Nanotechnology, 2008, 19, 265601.	1.3	138
49	Deposition of Chromium Species at Sr-Doped LaMnO[sub 3] Electrodes in Solid Oxide Fuel Cells II. Effect on O[sub 2] Reduction Reaction. Journal of the Electrochemical Society, 2000, 147, 3195.	1.3	136
50	Self-assembled Nafionâ€“silica nanoparticles for elevated-high temperature polymer electrolyte membrane fuel cells. Electrochemistry Communications, 2007, 9, 2003-2008.	2.3	131
51	Palladium and ceria infiltrated La0.8Sr0.2Co0.5Fe0.5O3â^'Î´ cathodes of solid oxide fuel cells. Journal of Power Sources, 2009, 194, 275-280.	4.0	131
52	Insight into surface segregation and chromium deposition on La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3â^'Î´} cathodes of solid oxide fuel cells. Journal of Materials Chemistry A, 2014, 2, 11114-11123.	5.2	128
53	Highâ€Performance Perovskite Composite Electrocatalysts Enabled by Controllable Interface Engineering. Small, 2021, 17, e2101573.	5.2	128
54	Activation, microstructure, and polarization of solid oxide fuel cell cathodes. Journal of Solid State Electrochemistry, 2006, 11, 93-102.	1.2	125

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55	Pristine carbon nanotubes as non-metal electrocatalysts for oxygen evolution reaction of water splitting. Applied Catalysis B: Environmental, 2015, 163, 96-104.	10.8	124
56	Sintering behavior of Ni/Y2O3-ZrO2cermet electrodes of solid oxide fuel cells. Journal of Materials Science, 2003, 38, 3775-3782.	1.7	123
57	Intercalation pseudocapacitance in electrochemical energy storage: recent advances in fundamental understanding and materials development. Materials Today Advances, 2020, 7, 100072.	2.5	119
58	Performance of direct methanol fuel cells prepared by hot-pressed MEA and catalyst-coated membrane (CCM). Electrochimica Acta, 2007, 52, 3714-3718.	2.6	115
59	Ni hollow spheres as catalysts for methanol and ethanol electrooxidation. Electrochemistry Communications, 2007, 9, 2009-2012.	2.3	114
60	Electro-oxidation of methanol, 1-propanol and 2-propanol on Pt and Pd in alkaline medium. Journal of Power Sources, 2008, 177, 67-70.	4.0	114
61	NiO/YSZ, anode-supported, thin-electrolyte, solid oxide fuel cells fabricated by gel casting. Journal of Power Sources, 2007, 170, 55-60.	4.0	113
62	New anhydrous proton exchange membranes for high-temperature fuel cells based on PVDFâ€“PVP blended polymers. Journal of Materials Chemistry A, 2015, 3, 148-155.	5.2	109
63	Enhanced electrochemical activity of Pt nanowire network electrocatalysts for methanol oxidation reaction of fuel cells. Electrochimica Acta, 2011, 56, 1563-1569.	2.6	108
64	Efficient Reversible Conversion between MoS₂ and Mo/Na₂S Enabled by Grapheneâ€Supported Single Atom Catalysts. Advanced Materials, 2021, 33, e2007090.	11.1	108
65	Rational Design of Agâ€Based Catalysts for the Electrochemical CO₂ Reduction to CO: A Review. ChemSusChem, 2020, 13, 39-58.	3.6	106
66	Development of (La,Sr)MnO[sub 3]-Based Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. Electrochemical and Solid-State Letters, 2003, 6, A67.	2.2	102
67	Electrooxidation of 2-propanol on Pt, Pd and Au in alkaline medium. Electrochemistry Communications, 2007, 9, 2760-2763.	2.3	101
68	In-situ evolution of active layers on commercial stainless steel for stable water splitting. Applied Catalysis B: Environmental, 2019, 248, 277-285.	10.8	99
69	A comparative study of CCM and hot-pressed MEAs for PEM fuel cells. Journal of Power Sources, 2007, 170, 140-144.	4.0	95
70	Synthesis and characterization of PDDA-stabilized Pt nanoparticles for direct methanol fuel cells. Electrochimica Acta, 2006, 51, 5721-5730.	2.6	94
71	Exceptional durability enhancement of PA/PBI based polymer electrolyte membrane fuel cells for high temperature operation at 200 Â°C. Journal of Materials Chemistry A, 2016, 4, 4019-4024.	5.2	93
72	A remarkable activity of glycerol electrooxidation on gold in alkaline medium. Electrochimica Acta, 2012, 59, 156-159.	2.6	91

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73	A Universal Seeding Strategy to Synthesize Single Atom Catalysts on 2D Materials for Electrocatalytic Applications. Advanced Functional Materials, 2020, 30, 1906157.	7.8	91
74	Bifunctional Catalysts for Reversible Oxygen Evolution Reaction and Oxygen Reduction Reaction. Chemistry - A European Journal, 2020, 26, 3906-3929.	1.7	90
75	GDC-Impregnated (La[sub 0.75]Sr[sub 0.25])(Cr[sub 0.5]Mn[sub 0.5])O[sub 3] Anodes for Direct Utilization of Methane in Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2006, 153, A850.	1.3	89
76	Pd nanoparticles supported on HPMo-PDDA-MWCNT and their activity for formic acid oxidation reaction of fuel cells. International Journal of Hydrogen Energy, 2011, 36, 8508-8517.	3.8	89
77	Synergistic effect of Pdâ€“Au bimetallic surfaces in Au-covered Pd nanowires studied for ethanol oxidation. Electrochimica Acta, 2010, 55, 2295-2298.	2.6	88
78	Tuning the electrocatalytic activity of Pt nanoparticles on carbon nanotubes via surface functionalization. Electrochemistry Communications, 2010, 12, 1646-1649.	2.3	88
79	Efficiency and stability of narrow-gap semiconductor-based photoelectrodes. Energy and Environmental Science, 2019, 12, 2345-2374.	15.6	88
80	Fabrication of High-Performance Ni/Y[sub 2]O[sub 3]-ZrO[sub 2] Cermet Anodes of Solid Oxide Fuel Cells by Ion Impregnation. Journal of the Electrochemical Society, 2002, 149, A1175.	1.3	87
81	Early interaction between Feâ€“Cr alloy metallic interconnect and Sr-doped LaMnO3 cathodes of solid oxide fuel cells. Journal of Materials Research, 2005, 20, 747-758.	1.2	87
82	High performance solid oxide fuel cells with electrocatalytically enhanced (La, Sr)MnO3 cathodes. Electrochemistry Communications, 2009, 11, 1048-1051.	2.3	87
83	A comparative study of H2S poisoning on electrode behavior of Ni/YSZ and Ni/GDC anodes of solid oxide fuel cells. International Journal of Hydrogen Energy, 2010, 35, 12359-12368.	3.8	87
84	Pd/HPW-PDDA-MWCNTs as effective non-Pt electrocatalysts for oxygen reduction reaction of fuel cells. Chemical Communications, 2010, 46, 2058.	2.2	87
85	Ni diffusion in vertical growth of MoS2 nanosheets on carbon nanotubes towards highly efficient hydrogen evolution. Carbon, 2021, 175, 176-186.	5.4	87
86	Chromium deposition and poisoning in dry and humidified air at (La0.8Sr0.2)0.9MnO3+ cathodes of solid oxide fuel cells. International Journal of Hydrogen Energy, 2010, 35, 2477-2485.	3.8	86
87	Modulating metalâ€“organic frameworks for catalyzing acidic oxygen evolution for proton exchange membrane water electrolysis. SusMat, 2021, 1, 460-481.	7.8	86
88	Performance stability and degradation mechanism of La 0.6 Sr 0.4 Co 0.2 Fe 0.8 O 3â^'Î´ cathodes under solid oxide fuel cells operation conditions. International Journal of Hydrogen Energy, 2014, 39, 15868-15876.	3.8	85
89	Surface Segregation in Solid Oxide Cell Oxygen Electrodes: Phenomena, Mitigation Strategies and Electrochemical Properties. Electrochemical Energy Reviews, 2020, 3, 730-765.	13.1	84
90	A Functionâ€Separated Design of Electrode for Realizing Highâ€Performance Hybrid Zinc Battery. Advanced Energy Materials, 2020, 10, 2002992.	10.2	84

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91	Effect of characteristics of Y2O3/ZrO2 powders on fabrication of anode-supported solid oxide fuel cells. Journal of Power Sources, 2003, 117, 26-34.	4.0	83
92	Functionalized mesoporous structured inorganic materials as high temperature proton exchange membranes for fuel cells. Journal of Materials Chemistry A, 2014, 2, 7637-7655.	5.2	82
93	Polarization-Induced Interface and Sr Segregation of <i>in Situ</i> Assembled La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3âˆ’Î´} Electrodes on Y₂O₃â€“ZrO₂ Electrolyte of Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2016, 8, 31729-31737.	4.0	82
94	Self-assembled platinum nanoparticles on sulfonic acid-grafted graphene as effective electrocatalysts for methanol oxidation in direct methanol fuel cells. Scientific Reports, 2016, 6, 21530.	1.6	82
95	Co9S8â€“Ni3S2 heterointerfaced nanotubes on Ni foam as highly efficient and flexible bifunctional electrodes for water splitting. Electrochimica Acta, 2019, 299, 152-162.	2.6	82
96	GDC-impregnated Ni anodes for direct utilization of methane in solid oxide fuel cells. Journal of Power Sources, 2006, 159, 68-72.	4.0	80
97	Nanostructured palladiumâ€“La0.75Sr0.25Cr0.5Mn0.5O3/Y2O3â€“ZrO2 composite anodes for direct methane and ethanol solid oxide fuel cells. Journal of Power Sources, 2008, 185, 179-182.	4.0	80
98	Highly Durable Proton Exchange Membranes for Low Temperature Fuel Cells. Journal of Physical Chemistry B, 2007, 111, 8684-8690.	1.2	79
99	A New Durable Surface Nanoparticlesâ€Modified Perovskite Cathode for Protonic Ceramic Fuel Cells from Selective Cation Exsolution under Oxidizing Atmosphere. Advanced Materials, 2022, 34, e2106379.	11.1	79
100	Boosting Electrocatalytic Activity of Single Atom Catalysts Supported on Nitrogenâ€Doped Carbon through N Coordination Environment Engineering. Small, 2022, 18, e2105329.	5.2	78
101	An investigation of shelf-life of strontium doped LaMnO3 materials. Journal of Materials Science, 2000, 35, 2735-2741.	1.7	77
102	Layer-by-layer self-assembly of PDDA/PWAâ€“Nafion composite membranes for direct methanol fuel cells. Chemical Communications, 2010, 46, 1434.	2.2	77
103	Performance and stability of (La,Sr)MnO3â€“Y2O3â€“ZrO2 composite oxygen electrodes under solid oxide electrolysis cell operation conditions. International Journal of Hydrogen Energy, 2012, 37, 10517-10525.	3.8	77
104	Coupling hydrothermal and photothermal single-atom catalysis toward excellent water splitting to hydrogen. Applied Catalysis B: Environmental, 2021, 283, 119660.	10.8	77
105	Deposition of Chromium Species at Sr-Doped LaMnO[sub 3] Electrodes in Solid Oxide Fuel Cells: III. Effect of Air Flow. Journal of the Electrochemical Society, 2001, 148, C447.	1.3	76
106	Lanthanum strontium manganese chromite cathode and anode synthesized by gel-casting for solid oxide fuel cells. Journal of Materials Chemistry, 2007, 17, 2627.	6.7	76
107	Polyelectrolyte-stabilized Pt nanoparticles as new electrocatalysts for low temperature fuel cells. Electrochemistry Communications, 2007, 9, 1613-1618.	2.3	76
108	Syngas production by catalytic partial oxidation of methane over (La0.7A0.3)BO3 (AÂ=ÂBa, Ca, Mg, Sr, and) Tj ETQq0 0 0 rgBT /Overlock Energy, 2013, 38, 13300-13308.	3.8	76

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109	A stability study of impregnated LSCFâ€“GDC composite cathodes of solid oxide fuel cells. Journal of Alloys and Compounds, 2013, 578, 37-43.	2.8	76
110	Effect of nitrogen-containing functionalization on the electrocatalytic activity of PtRu nanoparticles supported on carbon nanotubes for direct methanol fuel cells. Applied Catalysis B: Environmental, 2014, 158-159, 140-149.	10.8	76
111	Efficient and Durable Bifunctional Oxygen Catalysts Based on NiFeO@MnO_{<i>x</i>} Coreâ€“Shell Structures for Rechargeable Znâ€“Air Batteries. ACS Applied Materials & Interfaces, 2017, 9, 8121-8133.	4.0	76
112	Black magnetic Cu-g-C3N4 nanosheets towards efficient photocatalytic H2 generation and CO2/benzene conversion. Chemical Engineering Journal, 2022, 450, 138030.	6.6	76
113	PtRu catalysts supported on heteropolyacid and chitosan functionalized carbon nanotubes for methanol oxidation reaction of fuel cells. Physical Chemistry Chemical Physics, 2011, 13, 16349.	1.3	75
114	New Undisputed Evidence and Strategy for Enhanced Latticeâ€Oxygen Participation of Perovskite Electrocatalyst through Cation Deficiency Manipulation. Advanced Science, 2022, 9, e2200530.	5.6	75
115	Electrodeposition of Cobalt from Aqueous Chloride Solutions. Journal of the Electrochemical Society, 1990, 137, 3418-3423.	1.3	74
116	Tetrahydrofuran-functionalized multi-walled carbon nanotubes as effective support for Pt and PtSn electrocatalysts of fuel cells. Electrochimica Acta, 2010, 55, 2964-2971.	2.6	74
117	Electrocatalytic Promotion of Palladium Nanoparticles on Hydrogen Oxidation on Ni/GDC Anodes of SOFCs via Spillover. Journal of the Electrochemical Society, 2009, 156, B1022.	1.3	73
118	Pd/C promoted by Au for 2-propanol electrooxidation in alkaline media. Electrochemistry Communications, 2008, 10, 246-249.	2.3	72
119	Novel nano-structured Pd+yttrium doped ZrO2 cathodes for intermediate temperature solid oxide fuel cells. Electrochemistry Communications, 2008, 10, 42-46.	2.3	72
120	Identifying the Intrinsic Relationship between the Restructured Oxide Layer and Oxygen Evolution Reaction Performance on the Cobalt Pnictide Catalyst. Small, 2020, 16, e1906867.	5.2	72
121	WOx/g-C3N4 layered heterostructures with controlled crystallinity towards superior photocatalytic degradation and H2 generation. Carbon, 2020, 156, 488-498.	5.4	71
122	Fe atoms anchored on defective nitrogen doped hollow carbon spheres as efficient electrocatalysts for oxygen reduction reaction. Nano Research, 2021, 14, 1069-1077.	5.8	71
123	Highly effective and CO-tolerant PtRu electrocatalysts supported on poly(ethyleneimine) functionalized carbon nanotubes for direct methanol fuel cells. Electrochimica Acta, 2013, 99, 124-132.	2.6	70
124	Direct application of cobaltite-based perovskite cathodes on the yttria-stabilized zirconia electrolyte for intermediate temperature solid oxide fuel cells. Journal of Materials Chemistry A, 2016, 4, 17678-17685.	5.2	70
125	Suppressed Sr segregation and performance of directly assembled La0.6Sr0.4Co0.2Fe0.8O3-Î´ oxygen electrode on Y2O3-ZrO2 electrolyte of solid oxide electrolysis cells. Journal of Power Sources, 2018, 384, 125-135.	4.0	69
126	Ni clusters-derived 2D/2D layered WOx(MoS2)/Ni-g-C3N4 step-scheme heterojunctions with enhanced photo- and electro-catalytic performance. Journal of Power Sources, 2021, 510, 230420.	4.0	67

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127	Fabrication and Performance of Impregnated Ni Anodes of Solid Oxide Fuel Cells. Journal of the American Ceramic Society, 2005, 88, 1779-1785.	1.9	66
128	Effect of Carbon Nanotubes on Direct Electron Transfer and Electrocatalytic Activity of Immobilized Glucose Oxidase. ACS Omega, 2018, 3, 667-676.	1.6	66
129	Highly ordered mesoporous Nafion membranes for fuel cells. Chemical Communications, 2011, 47, 3216.	2.2	64
130	Development of Nanostructured and Palladium Promoted (La,Sr)MnO[sub 3]-Based Cathodes for Intermediate-Temperature SOFCs. Electrochemical and Solid-State Letters, 2008, 11, B213.	2.2	63
131	A novel phosphotungstic acid impregnated meso-Nafion multilayer membrane for proton exchange membrane fuel cells. Journal of Membrane Science, 2013, 427, 101-107.	4.1	63
132	Why solid oxide cells can be reversibly operated in solid oxide electrolysis cell and fuel cell modes?. Physical Chemistry Chemical Physics, 2015, 17, 31308-31315.	1.3	63
133	Fluorineâ€Doped and Partially Oxidized Tantalum Carbides as Nonprecious Metal Electrocatalysts for Methanol Oxidation Reaction in Acidic Media. Advanced Materials, 2016, 28, 2163-2169.	11.1	63
134	Highly active and stable Er_{0.4}Bi_{1.6}O₃ decorated La_{0.76}Sr_{0.19}MnO_{3+Î´} nanostructured oxygen electrodes for reversible solid oxide cells. Journal of Materials Chemistry A, 2017, 5, 12149-12157.	5.2	63
135	Functionalization of carbon nanotubes by an effective intermittent microwave heating-assisted HF/H2O2 treatment for electrocatalyst support of fuel cells. Electrochimica Acta, 2009, 54, 6954-6958.	2.6	62
136	Highly active and stable (La0.24Sr0.16Ba0.6)(Co0.5Fe0.44Nb0.06)O3â^'Î´ (LSBCFN) cathodes for solid oxide fuel cells prepared by a novel mixing synthesis method. Journal of Materials Chemistry A, 2013, 1, 4871.	5.2	62
137	Electrodeposited PtCo and PtMn electrocatalysts for methanol and ethanol electrooxidation of direct alcohol fuel cells. Electrochimica Acta, 2009, 54, 6322-6326.	2.6	61
138	Highly chromium contaminant tolerant BaO infiltrated La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3â^'Î´} cathodes for solid oxide fuel cells. Physical Chemistry Chemical Physics, 2015, 17, 4870-4874.	1.3	61
139	The edge-epitaxial growth of yellow g-C₃N₄ on red g-C₃N₄ nanosheets with superior photocatalytic activities. Chemical Communications, 2021, 57, 3119-3122.	2.2	61
140	Pt-based nanoparticles on non-covalent functionalized carbon nanotubes as effective electrocatalysts for proton exchange membrane fuel cells. RSC Advances, 2014, 4, 46265-46284.	1.7	60
141	Challenges in the development of reversible solid oxide cell technologies: a mini review. Asia-Pacific Journal of Chemical Engineering, 2016, 11, 386-391.	0.8	60
142	Construction of 2D g-C₃N₄ lateral-like homostructures and their photo- and electro-catalytic activities. Chemical Communications, 2019, 55, 1233-1236.	2.2	60
143	Effect of Polarization on the Interface Between (La,Sr)MnO[sub 3] Electrode and Y[sub 2]O[sub 3]-ZrO[sub 2] Electrolyte. Electrochemical and Solid-State Letters, 2005, 8, A115.	2.2	59
144	Nanostructured tungsten carbide/carbon composites synthesized by a microwave heating method as supports of platinum catalysts for methanol oxidation. Journal of Power Sources, 2012, 202, 56-62.	4.0	59

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145	Controllable synthesis of graphene supported MnO₂nanowires via self-assembly for enhanced water oxidation in both alkaline and neutral solutions. Journal of Materials Chemistry A, 2014, 2, 123-129.	5.2	59
146	A Versatile Ironâ€"Tanninâ€Framework Ink Coating Strategy to Fabricate Biomassâ€Derived Iron Carbide/Feâ€Nâ€Carbon Catalysts for Efficient Oxygen Reduction. Angewandte Chemie, 2016, 128, 1377-1381.	1.6	59
147	Unique Ni Crystalline Core/Ni Phosphide Amorphous Shell Heterostructured Electrocatalyst for Hydrazine Oxidation Reaction of Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 19048-19055.	4.0	59
148	Defects-rich porous carbon microspheres as green electrocatalysts for efficient and stable oxygen-reduction reaction over a wide range of pH values. Chemical Engineering Journal, 2021, 406, 126883.	6.6	59
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