

Sung Jong Yoo

List of Publications by Year in descending order

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264
papers

9,712
citations

44444

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all docs

271
docs citations

271
times ranked

12980
citing authors

#	ARTICLE	IF	CITATIONS
1	Spray pyrolysis-assisted synthesis of hollow cobalt nitrogen-doped carbon catalyst for the performance enhancement of membraneless fuel cells. <i>International Journal of Energy Research</i> , 2022, 46, 760-773.	2.2	11
2	Effect of Support for Non-Noble NiMo Electrocatalyst in Alkaline Hydrogen Oxidation. <i>Advanced Sustainable Systems</i> , 2022, 6, .	2.7	8
3	Upcycling waste tires to affordable catalysts for the oxygen reduction reaction. <i>International Journal of Energy Research</i> , 2022, 46, 4645-4654.	2.2	5
4	Pyrolic N wrapping strategy to maximize the number of single-atomic Fe-Nx sites for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2022, 520, 230904.	4.0	14
5	Safeguarding the RuO ₂ phase against lattice oxygen oxidation during acidic water electrooxidation. <i>Energy and Environmental Science</i> , 2022, 15, 1119-1130.	15.6	66
6	Impact of the dopant-induced ensemble structure of hetero-double atom catalysts in electrochemical NH ₃ production. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6216-6230.	5.2	11
7	Surfactant assisted geometric barriers on PtNi@C electrocatalyst for phosphoric acid fuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 110, 198-205.	2.9	6
8	Metastable hexagonal close-packed palladium hydride in liquid cell TEM. <i>Nature</i> , 2022, 603, 631-636.	13.7	31
9	Atomically dispersed Ru(III) on N-doped mesoporous carbon hollow spheres as catalysts for CO ₂ hydrogenation to formate. <i>Chemical Engineering Journal</i> , 2022, 442, 136185.	6.6	17
10	Hierarchical porous single-wall carbon nanohorns with atomic-level designed single-atom Co sites toward oxygen reduction reaction. <i>Nano Energy</i> , 2022, 97, 107206.	8.2	17
11	Design of Co-NC as efficient electrocatalyst: The unique structure and active site for remarkable durability of proton exchange membrane fuel cells. <i>Applied Catalysis B: Environmental</i> , 2022, 308, 121220.	10.8	26
12	Sandwich-like Nafion composite membrane with ultrathin ceria barriers for durable fuel cells. <i>International Journal of Energy Research</i> , 2022, 46, 6457-6470.	2.2	7
13	Sacrificial Dopant to Enhance the Activity and Durability of Electrochemical N ₂ Reduction Catalysis. <i>ACS Catalysis</i> , 2022, 12, 5684-5697.	5.5	12
14	Synthesis of hollow structured PtNi/Pt core/shell and Pt-only nanoparticles via galvanic displacement and selective etching for efficient oxygen reduction reaction. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 111, 300-307.	2.9	14
15	Formation Mechanism of Carbon-Supported Hollow PtNi Nanoparticles via One-Step Preparations for Use in the Oxygen Reduction Reaction. <i>Catalysts</i> , 2022, 12, 513.	1.6	4
16	Tofu-derived heteroatom-doped carbon for oxygen reduction reaction in an anion exchange membrane fuel cell. <i>Energy Conversion and Management</i> , 2022, 265, 115754.	4.4	9
17	Electrochemical determination of the degree of atomic surface roughness in Pt-Ni alloy nanocatalysts for oxygen reduction reaction. , 2021, 3, 375-383.		57
18	Regenerative Electrocatalytic Redox Cycle of Copper Sulfide for Sustainable NH ₃ Production under Ambient Conditions. <i>ACS Catalysis</i> , 2021, 11, 435-445.	5.5	43

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19	Electrochemically fabricated MoO ₃ @NiMo heterostructure catalyst with Pt-like activity for the pH-universal hydrogen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 3677-3684.	5.2	27
20	Reinforced Polymer Blend Membranes with Liposome-Like Morphology for Polymer Electrolyte Membrane Fuel Cells Operating under Low-Humidity Conditions. Advanced Engineering Materials, 2021, 23, 2001174.	1.6	4
21	Anion Constructor for Atomic-Scale Engineering of Antiperovskite Crystals for Electrochemical Reactions. Advanced Functional Materials, 2021, 31, 2009241.	7.8	4
22	Single-atom oxygen reduction reaction electrocatalysts of Fe, Si, and N co-doped carbon with 3D interconnected mesoporosity. Journal of Materials Chemistry A, 2021, 9, 4297-4309.	5.2	43
23	Polystyrene-Based Hydroxide-Ion-Conducting Ionomer: Binder Characteristics and Performance in Anion-Exchange Membrane Fuel Cells. Polymers, 2021, 13, 690.	2.0	14
24	Insight on the treatment of pig blood as biomass derived electrocatalyst precursor for high performance in the oxygen reduction reaction. Applied Surface Science, 2021, 545, 148940.	3.1	6
25	Poly(fluorenyl aryl piperidinium) membranes and ionomers for anion exchange membrane fuel cells. Nature Communications, 2021, 12, 2367.	5.8	193
26	Atomic-Scale Engineering: Anion Constructor for Atomic-Scale Engineering of Antiperovskite Crystals for Electrochemical Reactions (Adv. Funct. Mater. 16/2021). Advanced Functional Materials, 2021, 31, 2170112.	7.8	0
27	High-dispersion Co@Fe@NC electrocatalyst based on leaf-shaped zeolite imidazole framework for oxygen reduction reaction in acidic medium. International Journal of Energy Research, 2021, 45, 15534-15543.	2.2	8
28	High-Performance Fuel Cells with a Plasma-Etched Polymer Electrolyte Membrane with Microhole Arrays. ACS Sustainable Chemistry and Engineering, 2021, 9, 5884-5894.	3.2	13
29	Hydrogen-Mediated Thin Pt Layer Formation on Ni ₃ N Nanoparticles for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2021, 13, 24624-24633.	4.0	3
30	Structural Evolution of Atomically Dispersed Fe Species in Fe@N/C Catalysts Probed by X-ray Absorption and ⁵⁷ Fe Mössbauer Spectroscopies. Journal of Physical Chemistry C, 2021, 125, 11928-11938.	1.5	9
31	Enhanced thermoelectric performance of Mo nanoparticle decorated n-type Bi ₂ Te _{2.7} Se _{0.3} powder composites. Applied Surface Science, 2021, 548, 149200.	3.1	8
32	Atomic-Scale Engineered Fe Single-Atom Electrocatalyst Based on Waste Pig Blood for High-Performance AEMFCs. ACS Sustainable Chemistry and Engineering, 2021, 9, 7863-7872.	3.2	17
33	Strategic design for promoting water behavior via ensemble of thermo-responsive polymer functionalized catalysts and reservoir carbon in anion exchange membrane fuel cells. Journal of Power Sources, 2021, 494, 229738.	4.0	9
34	Bimetallic ZIFs derived nitrogen-doped hollow carbon with carbon nanotube bridges as a superior oxygen reduction reaction electrocatalyst. Journal of Industrial and Engineering Chemistry, 2021, 97, 466-475.	2.9	19
35	Capping agent-free synthesis of surface engineered Pt nanocube for direct ammonia fuel cell. International Journal of Energy Research, 2021, 45, 18281-18291.	2.2	7
36	Flash Bottom-Up Arc Synthesis of Nanocarbons as a Universal Route for Fabricating Single-Atom Electrocatalysts. Small Methods, 2021, 5, 2100239.	4.6	6

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37	Monitoring electrochemical methanol oxidation and CO coverage using Pt deposited SPR sensor platform. <i>International Journal of Energy Research</i> , 2021, 45, 19535.	2.2	2
38	Tailoring of Pt Island RuO ₂ /C Catalysts by Galvanic Replacement to Achieve Superior Hydrogen Oxidation Reaction and CO Poisoning Resistance. <i>ACS Applied Energy Materials</i> , 2021, 4, 8098-8107.	2.5	6
39	Elevated surface plasmon resonance sensing sensitivity of Au-covered silica sphere monolayer prepared by Langmuir-Blodgett coating. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 99, 179-186.	2.9	5
40	Flash Bottom-Up Arc Synthesis of Nanocarbons as a Universal Route for Fabricating Single-Atom Electrocatalysts (Small Methods 8/2021). <i>Small Methods</i> , 2021, 5, 2170037.	4.6	0
41	Feasibility of a Spherical Hollow Carbon Framework as a Stable Host Material for Reversible Metallic Li Storage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42732-42740.	4.0	5
42	Waste pig blood-derived 2D Fe single-atom porous carbon as an efficient electrocatalyst for zinc-air batteries and AEMFCs. <i>Applied Surface Science</i> , 2021, 563, 150208.	3.1	25
43	Polymer electrolyte membrane unitized regenerative fuel cells: Operational considerations for achieving high round trip efficiency at low catalyst loading. <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120458.	10.8	14
44	Emerging carbon shell-encapsulated metal nanocatalysts for fuel cells and water electrolysis. <i>Nanoscale</i> , 2021, 13, 15116-15141.	2.8	46
45	A target-customized carbon shell structure of carbon-encapsulated metal nanoparticles for fuel cell applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24480-24487.	5.2	18
46	Plasma-induced alloying as a green technology for synthesizing ternary nanoparticles with an early transition metal. <i>Nano Today</i> , 2021, 41, 101316.	6.2	11
47	Atomic Rearrangement in Core-Shell Catalysts Induced by Electrochemical Activation for Favorable Oxygen Reduction in Acid Electrolytes. <i>ACS Catalysis</i> , 2021, 11, 15098-15109.	5.5	9
48	Hollow-sphere Co-NC synthesis by incorporation of ultrasonic spray pyrolysis and pseudomorphic replication and its enhanced activity toward oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118192.	10.8	52
49	Dual exchange membrane fuel cell with sequentially aligned cation and anion exchange membranes for non-humidified operation. <i>Journal of Membrane Science</i> , 2020, 596, 117745.	4.1	8
50	Defect-controlled Fe-N-doped carbon nanofiber by ball-milling for oxygen reduction reaction. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 938-945.	1.2	8
51	Activity-Stability Relationship in Au@Pt Nanoparticles for Electrocatalysis. <i>ACS Energy Letters</i> , 2020, 5, 2827-2834.	8.8	49
52	Electron-deficient titanium single-atom electrocatalyst for stable and efficient hydrogen production. <i>Nano Energy</i> , 2020, 78, 105151.	8.2	16
53	Prism patterned TiO ₂ layers/Nafion® composite membrane for elevated temperature/low relative humidity fuel cell operation. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 90, 327-332.	2.9	11
54	Direct Synthesis of Intermetallic Platinum-Alloy Nanoparticles Highly Loaded on Carbon Supports for Efficient Electrocatalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 14190-14200.	6.6	160

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55	Fe-based non-noble metal catalysts with dual active sites of nanosized metal carbide and single-atomic species for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22379-22388.	5.2	30
56	Tunable Synthesis of N,C-Codoped Ti ³⁺ -Enriched Titanium Oxide Support for Highly Durable PEMFC Cathode. <i>ACS Catalysis</i> , 2020, 10, 12080-12090.	5.5	39
57	Monolayer Quantum-Dot Based Light-Sensor by a Photo-Electrochemical Mechanism. <i>Micromachines</i> , 2020, 11, 817.	1.4	0
58	Surface engineering of Pd-based nanoparticles by gas treatment for oxygen reduction reaction. <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 1360-1364.	1.2	2
59	Effect of N-cyclic cationic groups in poly(phenylene oxide)-based catalyst ionomer membranes for anion exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2020, 608, 118183.	4.1	32
60	Bimodal-porous hollow MgO sphere embedded mixed matrix membranes for CO ₂ capture. <i>Separation and Purification Technology</i> , 2020, 250, 117065.	3.9	22
61	Highly Active and Durable Ordered Intermetallic PdFe Electrocatalyst for Formic Acid Electrooxidation Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 4226-4237.	2.5	31
62	Formation Mechanism and Gram-Scale Production of PtNi Hollow Nanoparticles for Oxygen Electrocatalysis through In Situ Galvanic Displacement Reaction. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16286-16297.	4.0	15
63	Effect of the fabrication condition of membrane electrode assemblies with carbon-supported ordered PtCo electrocatalyst on the durability of polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 32834-32843.	3.8	2
64	Spirobiindane-Based Poly(arylene ether sulfone) Ionomers for Alkaline Anion Exchange Membrane Fuel Cells. <i>Macromolecular Research</i> , 2020, 28, 275-281.	1.0	8
65	Low-loading IrO ₂ supported on Pt for catalysis of PEM water electrolysis and regenerative fuel cells. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118955.	10.8	43
66	New PtMg Alloy with Durable Electrocatalytic Performance for Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cell. <i>ACS Energy Letters</i> , 2020, 5, 1601-1609.	8.8	37
67	Hydrocarbon-based electrode ionomer for proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 32856-32864.	3.8	18
68	Additional Carbon/Nafion Covering Layer on Electrode in Polymer Electrolyte Membrane Fuel Cell for Effective Operation at Low Relative Humidity Condition. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1665-1665.	0.0	0
69	Boosting Fuel Cell Durability under Shut-Down/Start-Up Conditions Using a Hydrogen Oxidation-Selective Metal-Carbon Hybrid Core-Shell Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27735-27742.	4.0	35
70	Tuning the surface structure of PtCo nanocatalysts with high activity and stability toward oxygen reduction. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 448-454.	2.9	19
71	Investigation of the effect of carbon-covering layer on catalyst layer in polymer electrolyte membrane fuel cell in low relative humidity condition. <i>Journal of Power Sources</i> , 2019, 436, 226823.	4.0	14
72	Bio-Derived Co ₂ P Nanoparticles Supported on Nitrogen-Doped Carbon as Promising Oxygen Reduction Reaction Electrocatalyst for Anion Exchange Membrane Fuel Cells. <i>Small</i> , 2019, 15, e1902090.	5.2	31

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73	Preparation of porous PtAuCu@Pt core-shell catalyst for application to oxygen reduction. Journal of Industrial and Engineering Chemistry, 2019, 79, 210-216.	2.9	15
74	Rational Generation of Fe ^N x Active Sites in Fe ^N C Electrocatalysts Facilitated by Fe ^N Coordinated Precursors for the Oxygen Reduction Reaction. ChemCatChem, 2019, 11, 5982-5988.	1.8	19
75	Membrane/Electrode Interface Design for Effective Water Management in Alkaline Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 34805-34811.	4.0	29
76	Enhanced Water Management of Three-Dimensional Graphene-Ni Foam with Patterned Wettability in a Polymer Electrolyte Membrane Fuel Cell. ACS Sustainable Chemistry and Engineering, 2019, 7, 15487-15494.	3.2	26
77	Development of robust Pt shell through organic hydride donor in PtCo@Pt core-shell electrocatalysts for highly stable proton exchange membrane fuel cells. Journal of Catalysis, 2019, 379, 112-120.	3.1	41
78	A new etching process for zinc oxide with etching rate and crystal plane control: experiment, calculation, and membrane application. Nanoscale, 2019, 11, 12337-12346.	2.8	3
79	Polyethylenimine-assisted Synthesis of Au Nanoparticles for Efficient Syngas Production. Electroanalysis, 2019, 31, 1401-1408.	1.5	12
80	Bending-durable membrane-electrode assembly using metal nanowires for bendable polymer electrolyte membrane fuel cell. Energy, 2019, 172, 874-880.	4.5	14
81	Pt-Sputtered Ti Mesh Electrode for Polymer Electrolyte Membrane Fuel Cells. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 271-279.	2.7	11
82	Work function-tailored graphene <i>via</i> transition metal encapsulation as a highly active and durable catalyst for the oxygen reduction reaction. Energy and Environmental Science, 2019, 12, 2200-2211.	15.6	141
83	A study on electrode fabrication and operation variables affecting the performance of anion exchange membrane water electrolysis. Journal of Industrial and Engineering Chemistry, 2019, 76, 410-418.	2.9	85
84	Synthesis and growth mechanism of carbon-supported nanoparticle catalysts by physical vapor deposition onto a liquid medium substrate. Applied Surface Science, 2019, 471, 1083-1087.	3.1	5
85	Zeolitic imidazolate framework ZIF-8 films by ZnO to ZIF-8 conversion and their usage as seed layers for propylene-selective ZIF-8 membranes. Journal of Industrial and Engineering Chemistry, 2019, 72, 374-379.	2.9	36
86	Highly active bimetallic CuFe ^N C electrocatalysts for oxygen reduction reaction in alkaline media. Journal of Industrial and Engineering Chemistry, 2019, 71, 234-241.	2.9	12
87	Effect of Catalyst Pore Size on the Performance of Non-Precious Fe/N/C-Based Electrocatalysts for High-Temperature Polymer Electrolyte Membrane Fuel Cells. ChemElectroChem, 2018, 5, 1805-1810.	1.7	19
88	Computational and experimental design of active and durable Ir-based nanoalloy for electrochemical oxygen reduction reaction. Applied Catalysis B: Environmental, 2018, 235, 177-185.	10.8	18
89	Alkaline anion exchange membrane water electrolysis: Effects of electrolyte feed method and electrode binder content. Journal of Power Sources, 2018, 382, 22-29.	4.0	96
90	Hollow PdCu ₂ @Pt core@shell nanoparticles with ordered intermetallic cores as efficient and durable oxygen reduction reaction electrocatalysts. Applied Catalysis B: Environmental, 2018, 225, 84-90.	10.8	48

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91	Toward High-Performance Pt-Based Nanocatalysts for Oxygen Reduction Reaction through Organic-Inorganic Hybrid Concepts. <i>Chemistry of Materials</i> , 2018, 30, 2-24.	3.2	65
92	Gram-scale synthesis of highly active and durable octahedral PtNi nanoparticle catalysts for proton exchange membrane fuel cell. <i>Applied Catalysis B: Environmental</i> , 2018, 225, 530-537.	10.8	63
93	Electrodeposited IrO ₂ /Ti electrodes as durable and cost-effective anodes in high-temperature polymer-membrane-electrolyte water electrolyzers. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 289-294.	10.8	76
94	Tailoring the porosity of MOF-derived N-doped carbon electrocatalysts for highly efficient solar energy conversion. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20170-20183.	5.2	25
95	Application of spirobiindane-based microporous poly(ether sulfone)s as polymeric binder on solid alkaline exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2018, 568, 67-75.	4.1	34
96	Fuel Cells: Highly Efficient Oxygen Reduction Reaction Activity of Graphitic Tube Encapsulating Nitrided Co _x Fe _y Alloy (<i>Adv. Energy Mater.</i> 25/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870115.	10.2	5
97	Highly Efficient Oxygen Reduction Reaction Activity of Graphitic Tube Encapsulating Nitrided Co _x Fe _y Alloy. <i>Advanced Energy Materials</i> , 2018, 8, 1801002.	10.2	117
98	Electrochemical impedance analysis with transmission line model for accelerated carbon corrosion in polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 15457-15465.	3.8	23
99	Enhanced CO ₂ reduction activity of polyethylene glycol-modified Au nanoparticles prepared via liquid medium sputtering. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 673-680.	10.8	35
100	Facile Spray Pyrolysis Synthesis of Various Metal-Doped MoO ₂ Microspheres for Catalytic Partial Oxidation of n-Dodecane. <i>Catalysis Letters</i> , 2018, 148, 2510-2515.	1.4	1
101	Effect of the spirobiindane group in sulfonated poly(arylene ether sulfone) copolymer as electrode binder for polymer electrolyte membrane fuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 47, 315-322.	2.9	14
102	Repetitive bending test of membrane electrode assembly for bendable polymer electrolyte membrane fuel cell. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 47, 323-328.	2.9	14
103	Urchin-Shaped Hollow Iron-Nitrogen-Doped Carbon Microspheres as High-Performance Electrocatalysts for Oxygen Reduction. <i>Journal of the Electrochemical Society</i> , 2017, 164, F224-F228.	1.3	11
104	Factors in electrode fabrication for performance enhancement of anion exchange membrane water electrolysis. <i>Journal of Power Sources</i> , 2017, 347, 283-290.	4.0	54
105	The role of pre-defined microporosity in catalytic site formation for the oxygen reduction reaction in iron- and nitrogen-doped carbon materials. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4199-4206.	5.2	30
106	Self-healing Pd ₃ Au@Pt/C core-shell electrocatalysts with substantially enhanced activity and durability towards oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 666-674.	10.8	14
107	Preparation and characterization of Cu-N-C electrocatalysts for oxygen reduction reaction in alkaline anion exchange membrane fuel cells. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 35-41.	2.9	18
108	Effect of assembly pressure on the performance of a bendable polymer electrolyte fuel cell based on a silver nanowire current collector. <i>Energy</i> , 2017, 134, 412-419.	4.5	32

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109	A rollable ultra-light polymer electrolyte membrane fuel cell. <i>NPG Asia Materials</i> , 2017, 9, e384-e384.	3.8	34
110	Effect of Catalyst Layer Ionomer Content on Performance of Intermediate Temperature Proton Exchange Membrane Fuel Cells (IT-PEMFCs) under Reduced Humidity Conditions. <i>Electrochimica Acta</i> , 2017, 224, 228-234.	2.6	30
111	Anomalous in situ Activation of Carbon-Supported Ni ₂ P Nanoparticles for Oxygen Evolving Electrocatalysis in Alkaline Media. <i>Scientific Reports</i> , 2017, 7, 8236.	1.6	21
112	Rhodium-Tin Binary Nanoparticle—A Strategy to Develop an Alternative Electrocatalyst for Oxygen Reduction. <i>ACS Catalysis</i> , 2017, 7, 5796-5801.	5.5	25
113	Transition metal alloying effect on the phosphoric acid adsorption strength of Pt nanoparticles: an experimental and density functional theory study. <i>Scientific Reports</i> , 2017, 7, 7186.	1.6	17
114	Investigation of electrolyte leaching in the performance degradation of phosphoric acid-doped polybenzimidazole membrane-based high temperature fuel cells. <i>Journal of Power Sources</i> , 2017, 363, 365-374.	4.0	49
115	Synthesis of high molecular weight polybenzimidazole using a highly pure monomer under mild conditions. <i>Polymer International</i> , 2017, 66, 1812-1818.	1.6	12
116	Vanadium nitride nanofiber membrane as a highly stable support for Pt-catalyzed oxygen reduction reaction. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 46, 298-303.	2.9	25
117	Facile Synthesis of M-MOF-74 (M=Co, Ni, Zn) and its Application as an ElectroCatalyst for Electrochemical CO ₂ Conversion and H ₂ Production. <i>Journal of Electrochemical Science and Technology</i> , 2017, 8, 61-68.	0.9	43
118	A Review on Membranes and Catalysts for Anion Exchange Membrane Water Electrolysis Single Cells. <i>Journal of Electrochemical Science and Technology</i> , 2017, 8, 183-196.	0.9	45
119	A Review of Industrially Developed Components and Operation Conditions for Anion Exchange Membrane Water Electrolysis. <i>Journal of Electrochemical Science and Technology</i> , 2017, 8, 265-273.	0.9	19
120	Facile Synthesis of M-MOF-74 (M=Co, Ni, Zn) and its Application as an ElectroCatalyst for Electrochemical CO ₂ Conversion and H ₂ Production. <i>Journal of Electrochemical Science and Technology</i> , 2017, 8, 61-68.	0.9	25
121	Spectrophotometric Analysis of Phosphoric Acid Leakage in High-Temperature Phosphoric Acid-Doped Polybenzimidazole Membrane Fuel Cell Application. <i>Journal of Sensors</i> , 2016, 2016, 1-8.	0.6	6
122	PEMFC Performance with Metal Bipolar Plates Depending on the Channel Dimension. <i>MATEC Web of Conferences</i> , 2016, 51, 03002.	0.1	0
123	Characterizing Coverage of Phosphoric Acid on Carbon-Supported Platinum Nanoparticles Using In Situ Extended X-Ray Absorption Fine Structure Spectroscopy and Cyclic Voltammetry. <i>Journal of the Electrochemical Society</i> , 2016, 163, F210-F215.	1.3	12
124	Development of La _{0.8} Sr _{0.2} MnO ₃ + δ electrocatalysts by Pechini's methods as cathode electrocatalysts in alkaline anion exchange membrane fuel cells. <i>Solid State Ionics</i> , 2016, 290, 124-129.	1.3	2
125	Polarization characteristics of a low catalyst loading PEM water electrolyzer operating at elevated temperature. <i>Journal of Power Sources</i> , 2016, 309, 127-134.	4.0	68
126	Prism-patterned Nafion membrane for enhanced water transport in polymer electrolyte membrane fuel cell. <i>Journal of Power Sources</i> , 2016, 317, 19-24.	4.0	37

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127	Base tolerant polybenzimidazolium hydroxide membranes for solid alkaline-exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2016, 514, 398-406.	4.1	11
128	Facile preparation of a long-term durable nano- and micro-structured polymer blend membrane for a proton exchange membrane fuel cell. <i>RSC Advances</i> , 2016, 6, 46516-46522.	1.7	13
129	Experimental Investigation of Operating Parameters in Power Generation by Lab-Scale Reverse Electro-Dialysis (<sc>RED</sc>). <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 1010-1019.	1.0	11
130	Electrochemical Conversion of Carbon Dioxide to Formic Acid on Sn-Zn Alloy Catalysts Prepared by Electrodeposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 10470-10474.	0.9	10
131	Facile synthesis of platinum alloy electrocatalyst via aluminum reducing agent and the effect of post heat treatment for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 22952-22962.	3.8	6
132	Binaphthyl-based molecular barrier materials for phosphoric acid poisoning in high-temperature proton exchange membrane fuel cells. <i>RSC Advances</i> , 2016, 6, 60749-60755.	1.7	12
133	High-performance PtCu _x @Pt core-shell nanoparticles decorated with nanoporous Pt surfaces for oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2016, 196, 199-206.	10.8	49
134	NH ₃ adsorption on PtM (Fe, Co, Ni) surfaces: Cooperating effects of charge transfer, magnetic ordering and lattice strain. <i>Chemical Physics Letters</i> , 2016, 648, 166-169.	1.2	17
135	Rationalization of electrocatalysis of nickel phosphide nanowires for efficient hydrogen production. <i>Nano Energy</i> , 2016, 26, 496-503.	8.2	61
136	Organic-inorganic hybrid PtCo nanoparticle with high electrocatalytic activity and durability for oxygen reduction. <i>NPG Asia Materials</i> , 2016, 8, e237-e237.	3.8	57
137	Development of porous Pt/IrO ₂ /carbon paper electrocatalysts with enhanced mass transport as oxygen electrodes in unitized regenerative fuel cells. <i>Electrochemistry Communications</i> , 2016, 64, 14-17.	2.3	34
138	A simple synthesis of urchin-like Pt-Ni bimetallic nanostructures as enhanced electrocatalysts for the oxygen reduction reaction. <i>Chemical Communications</i> , 2016, 52, 597-600.	2.2	47
139	Anion exchange membrane water electrolyzer with an ultra-low loading of Pt-decorated Ni electrocatalyst. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 674-679.	10.8	47
140	Synthesis and Properties of Nitrogen and Iodine Co-Functionalized Graphene Oxide and Its Electrochemical Applications. <i>Science of Advanced Materials</i> , 2016, 8, 28-33.	0.1	3
141	Recent Progress in Nanoparticle Synthesis via Liquid Medium Sputtering and its Applications. <i>Journal of Electrochemical Science and Technology</i> , 2016, 7, 13-26.	0.9	2
142	Carbon-Supported Ordered Pt-Ti Alloy Nanoparticles as Durable Oxygen Reduction Reaction Electrocatalyst for Polymer Electrolyte Membrane Fuel Cells. <i>Journal of Electrochemical Science and Technology</i> , 2016, 7, 269-276.	0.9	1
143	Recent Progress in Nanoparticle Synthesis via Liquid Medium Sputtering and its Applications. <i>Journal of Electrochemical Science and Technology</i> , 2016, 7, 13-26.	0.9	2
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