

Min-Ho Seo

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76 papers	3,971 citations	37 h-index	62 g-index
81 ext. papers	4,602 ext. citations	10.7 avg, IF	5.57 L-index

#	Paper	IF	Citations
76	Influence of Sn content on PtSn/C catalysts for electrooxidation of C1C3 alcohols: Synthesis, characterization, and electrocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2008 , 82, 89-102	21.8	221
75	The graphene-supported Pd and Pt catalysts for highly active oxygen reduction reaction in an alkaline condition. <i>Electrochemistry Communications</i> , 2011 , 13, 182-185	5.1	213
74	Development and Simulation of Sulfur-doped Graphene Supported Platinum with Exemplary Stability and Activity Towards Oxygen Reduction. <i>Advanced Functional Materials</i> , 2014 , 24, 4325-4336	15.6	184
73	Hollow Multivoid Nanocuboids Derived from Ternary NiCoFe Prussian Blue Analog for Dual-Electrocatalysis of Oxygen and Hydrogen Evolution Reactions. <i>Advanced Functional Materials</i> , 2018 , 28, 1802129	15.6	180
72	Synthesis of surface-functionalized graphene nanosheets with high Pt-loadings and their applications to methanol electrooxidation. <i>Carbon</i> , 2011 , 49, 904-909	10.4	171
71	Chemisorption of polysulfides through redox reactions with organic molecules for lithium-sulfur batteries. <i>Nature Communications</i> , 2018 , 9, 705	17.4	159
70	Sulfur Atoms Bridging Few-Layered MoS2 with S-Doped Graphene Enable Highly Robust Anode for Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015 , 5, 1501106	21.8	152
69	Electrospun porous nanorod perovskite oxide/nitrogen-doped graphene composite as a bi-functional catalyst for metal air batteries. <i>Nano Energy</i> , 2014 , 10, 192-200	17.1	145
68	3D Ordered Mesoporous Bifunctional Oxygen Catalyst for Electrically Rechargeable Zinc-Air Batteries. <i>Small</i> , 2016 , 12, 2707-14	11	117
67	Enhanced Reversible Sodium-Ion Intercalation by Synergistic Coupling of Few-Layered MoS2 and S-Doped Graphene. <i>Advanced Functional Materials</i> , 2017 , 27, 1702562	15.6	116
66	Highly dispersed Ag nanoparticles on nanosheets of reduced graphene oxide for oxygen reduction reaction in alkaline media. <i>Electrochemistry Communications</i> , 2013 , 28, 100-103	5.1	107
65	Design of Highly Active Perovskite Oxides for Oxygen Evolution Reaction by Combining Experimental and ab Initio Studies. <i>ACS Catalysis</i> , 2015 , 5, 4337-4344	13.1	98
64	Shape- and Composition-Sensitive Activity of Pt and PtAu Catalysts for Formic Acid Electrooxidation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18093-18100	3.8	94
63	Shape-controlled octahedral cobalt disulfide nanoparticles supported on nitrogen and sulfur-doped graphene/carbon nanotube composites for oxygen reduction in acidic electrolyte. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6340-6350	13	93
62	Carbon-Coated Silicon Nanowires on Carbon Fabric as Self-Supported Electrodes for Flexible Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 9551-9558	9.5	81
61	Perovskite-nitrogen-doped carbon nanotube composite as bifunctional catalysts for rechargeable lithium-air batteries. <i>ChemSusChem</i> , 2015 , 8, 1058-65	8.3	77
60	A polyoxometalate-deposited Pt/CNT electrocatalyst via chemical synthesis for methanol electrooxidation. <i>Journal of Power Sources</i> , 2008 , 179, 81-86	8.9	74

59	Towards a comprehensive understanding of FeCo coated with N-doped carbon as a stable bi-functional catalyst in acidic media. <i>NPG Asia Materials</i> , 2016 , 8, e312-e312	10.3	72
58	Highly active Co-doped LaMnO ₃ perovskite oxide and N-doped carbon nanotube hybrid bi-functional catalyst for rechargeable zinc-air batteries. <i>Electrochemistry Communications</i> , 2015 , 60, 38-41	5.1	70
57	The graphene-supported palladium and palladium-iridium nanoparticles for the oxygen reduction and ethanol oxidation reactions: Experimental measurement and computational validation. <i>Applied Catalysis B: Environmental</i> , 2013 , 129, 163-171	21.8	70
56	Design of an active and durable catalyst for oxygen reduction reactions using encapsulated Cu with N-doped carbon shells (Cu@N-C) activated by CO ₂ treatment. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22031-22034	13	66
55	First principles computational study on the electrochemical stability of Pt-Co nanocatalysts. <i>Nanoscale</i> , 2013 , 5, 8625-33	7.7	61
54	Synthesis and characterization of graphene-supported metal nanoparticles by impregnation method with heat treatment in H ₂ atmosphere. <i>Synthetic Metals</i> , 2011 , 161, 2405-2411	3.6	61
53	Sulfur Nanogranular Film-Coated Three-Dimensional Graphene Sponge-Based High Power Lithium Sulfur Battery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1984-91	9.5	60
52	The promotional effect of Ni on bimetallic PtNi/C catalysts for glycerol electrooxidation. <i>Applied Catalysis A: General</i> , 2012 , 429-430, 39-47	5.1	60
51	Pt and PtRh nanowire electrocatalysts for cyclohexane-fueled polymer electrolyte membrane fuel cell. <i>Electrochemistry Communications</i> , 2009 , 11, 446-449	5.1	57
50	Efficient electrooxidation of biomass-derived glycerol over a graphene-supported PtRu electrocatalyst. <i>Electrochemistry Communications</i> , 2011 , 13, 890-893	5.1	55
49	Bifunctionally active and durable hierarchically porous transition metal-based hybrid electrocatalyst for rechargeable metal-air batteries. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 677-687	21.8	53
48	Highly Active and Durable Nanocrystal-Decorated Bifunctional Electrocatalyst for Rechargeable Zinc-Air Batteries. <i>ChemSusChem</i> , 2015 , 8, 3129-38	8.3	51
47	Three-Dimensional Dendritic Cu ₂ O@P Electrode by One-Step Electrodeposition on a Hydrogen Bubble Template for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10734-10741	8.3	47
46	Optimization of sulfur-doped graphene as an emerging platinum nanowires support for oxygen reduction reaction. <i>Nano Energy</i> , 2016 , 19, 27-38	17.1	46
45	First principles study of oxygen reduction reaction mechanisms on N-doped graphene with a transition metal support. <i>Electrochimica Acta</i> , 2014 , 140, 225-231	6.7	45
44	Tuning the catalytic activity of heterogeneous two-dimensional transition metal dichalcogenides for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20005-20014	13	41
43	Self-assembled nitrogen-doped fullerenes and their catalysis for fuel cell and rechargeable metal-air battery applications. <i>Nanoscale</i> , 2017 , 9, 7373-7379	7.7	40
42	Toward new fuel cell support materials: a theoretical and experimental study of nitrogen-doped graphene. <i>ChemSusChem</i> , 2014 , 7, 2609-20	8.3	40

41	Theoretical insight into highly durable iron phthalocyanine derived non-precious catalysts for oxygen reduction reactions. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 19707-19716	13	37
40	First-principles thermodynamic study of the electrochemical stability of Pt nanoparticles in fuel cell applications. <i>Journal of Power Sources</i> , 2013 , 238, 137-143	8.9	37
39	Highly improved oxygen reduction performance over Pt/C-dispersed nanowire network catalysts. <i>Electrochemistry Communications</i> , 2010 , 12, 32-35	5.1	37
38	Synthesis, characterization, and electrocatalytic properties of a polypyrrole-composited Pd/C catalyst. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 11545-11553	6.7	36
37	Correlation between theoretical descriptor and catalytic oxygen reduction activity of graphene supported palladium and palladium alloy electrocatalysts. <i>Journal of Power Sources</i> , 2015 , 300, 1-9	8.9	33
36	Superior performance of anion exchange membrane water electrolyzer: Ensemble of producing oxygen vacancies and controlling mass transfer resistance. <i>Applied Catalysis B: Environmental</i> , 2020 , 278, 119276	21.8	32
35	Effect of Rh content on carbon-supported PtRh catalysts for dehydrogenative electrooxidation of cyclohexane to benzene over polymer electrolyte membrane fuel cell. <i>Applied Catalysis A: General</i> , 2009 , 352, 145-151	5.1	31
34	Superior performance and stability of anion exchange membrane water electrolysis: pH-controlled copper cobalt oxide nanoparticles for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4290-4299	13	30
33	Exploring the effects of the size of reduced graphene oxide nanosheets for Pt-catalyzed electrode reactions. <i>Nanoscale</i> , 2015 , 7, 9438-42	7.7	29
32	Carbon-supported PtNi catalysts for electrooxidation of cyclohexane to benzene over polymer electrolyte fuel cells. <i>Catalysis Today</i> , 2009 , 146, 9-14	5.3	28
31	Three-Dimensional Honeycomb-Like CuCoO Nanosheet Arrays Supported by Ni Foam and Their High Efficiency as Oxygen Evolution Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38663-38668	9.5	28
30	Boosting the electrocatalytic glycerol oxidation performance with highly-dispersed Pt nanoclusters loaded on 3D graphene-like microporous carbon. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 555-568	21.8	27
29	Effect of polyoxometalate amount deposited on Pt/C electrocatalysts for CO tolerant electrooxidation of H ₂ in polymer electrolyte fuel cells. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 6853-6862	6.7	26
28	A Review on Recent Progress in the Aspect of Stability of Oxygen Reduction Electrocatalysts for Proton-Exchange Membrane Fuel Cell: Quantum Mechanics and Experimental Approaches. <i>Energy Technology</i> , 2019 , 7, 1900312	3.5	22
27	Design of ultralong single-crystal nanowire-based bifunctional electrodes for efficient oxygen and hydrogen evolution in a mild alkaline electrolyte. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10895-10901	13	20
26	Comparative investigation of the molybdenum sulphide doped with cobalt and selenium towards hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018 , 271, 211-219	6.7	20
25	Self-Assembly of Spinel Nanocrystals into Mesoporous Spheres as Bifunctionally Active Oxygen Reduction and Evolution Electrocatalysts. <i>ChemSusChem</i> , 2017 , 10, 2258-2266	8.3	19
24	Hierarchical Chestnut-Burr Like Structure of Copper Cobalt Oxide Electrocatalyst Directly Grown on Ni Foam for Anion Exchange Membrane Water Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2344-2349	8.3	18

23	Plasma-induced oxygen vacancies in amorphous MnOx boost catalytic performance for electrochemical CO2 reduction. <i>Nano Energy</i> , 2021 , 79, 105492	17.1	18
22	Hierarchical Ni-Mo2C/N-doped carbon Mott-Schottky array for water electrolysis. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120168	21.8	17
21	Stability Enhancement of Pd Catalysts by Compositing with Polypyrrole Layer for Polymer Electrolyte Fuel Cell Electrodes. <i>Topics in Catalysis</i> , 2010 , 53, 678-685	2.3	16
20	Electrochemical benzene hydrogenation using PtRhM/C (M=W, Pd, or Mo) electrocatalysts over a polymer electrolyte fuel cell system. <i>Applied Catalysis A: General</i> , 2009 , 359, 136-143	5.1	13
19	High-performance anion exchange membrane alkaline seawater electrolysis. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9586-9592	13	13
18	High Lithium Ion Transport Through rGO-Wrapped LiNiCoMnO Cathode Material for High-Rate Capable Lithium Ion Batteries. <i>Frontiers in Chemistry</i> , 2019 , 7, 361	5	12
17	Efficient Zn Metal Anode Enabled by O,N-Codoped Carbon Microflowers.. <i>Nano Letters</i> , 2022 ,	11.5	12
16	Commercial anion exchange membrane water electrolyzer stack through non-precious metal electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120170	21.8	11
15	Metal-Organic Frameworks Reinforce the Carbon Nanotube Sponge-Derived Robust Three-Dimensional Sulfur Host for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28036-28048	9.5	9
14	Fast stack activation procedure and effective long-term storage for high-performance polymer electrolyte membrane fuel cell. <i>Journal of Power Sources</i> , 2016 , 328, 75-80	8.9	7
13	Synthesis and Characterization of the Cu0.72Co2.28O4 Catalyst for Oxygen Evolution Reaction in an Anion Exchange Membrane Water Electrolyzer. <i>Journal of Korean Institute of Metals and Materials</i> , 2020 , 58, 49-58	1	7
12	Degradation of polymer electrolyte membrane fuel cell by siloxane in biogas. <i>Journal of Power Sources</i> , 2016 , 316, 44-52	8.9	7
11	Nitrogen-doped carbon supported platinum catalyst via direct soft nitriding for high-performance polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 17873-17879	6.7	6
10	Atomic iridium species anchored on porous carbon network support: An outstanding electrocatalyst for CO2 conversion to CO. <i>Applied Catalysis B: Environmental</i> , 2021 , 292, 120173	21.8	6
9	Hierarchical porous structure construction for highly stable self-supporting lithium metal anode. <i>Nano Energy</i> , 2022 , 93, 106905	17.1	5
8	First-Principles-Based Machine-Learning Molecular Dynamics for Crystalline Polymers with van der Waals Interactions. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6000-6006	6.4	5
7	Specific approaches to dramatic reduction in stack activation time and perfect long-term storage for high-performance air-breathing polymer electrolyte membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 16288-16293	6.7	4
6	Electrochemistry: Development and Simulation of Sulfur-doped Graphene Supported Platinum with Exemplary Stability and Activity Towards Oxygen Reduction (Adv. Funct. Mater. 27/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 4324-4324	15.6	4

5	High Pressure Nitrogen-Infused Ultrastable Fuel Cell Catalyst for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2021 , 11, 5525-5531	13.1	4
4	Fluorine-Decorated Graphene Nanoribbons for an Anticorrosive Polymer Electrolyte Membrane Fuel Cell. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26936-26947	9.5	4
3	Enhancement of Catalytic Activity and Durability of Pt Nanoparticle through Strong Chemical Interaction with Electrically Conductive Support of Magn η Phase Titanium Oxide. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
2	Cubic garnet solid polymer electrolyte for room temperature operable all-solid-state-battery. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 5849-5863	5.5	0
1	A practical approach to measuring the ion-transport number of cation-exchange membranes: Effects of junction potential and analyte concentration. <i>Journal of Membrane Science</i> , 2021 , 635, 119471	9.6	0