

Min-Joong Kim

List of Publications by Year in descending order

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37
papers

1,491
citations

257450

24
h-index

315739

38
g-index

39
all docs

39
docs citations

39
times ranked

2518
citing authors

#	ARTICLE	IF	CITATIONS
1	Porous Co@P foam as an efficient bifunctional electrocatalyst for hydrogen and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18272-18277.	10.3	130
2	Ga-Doped Pt@Ni Octahedral Nanoparticles as a Highly Active and Durable Electrocatalyst for Oxygen Reduction Reaction. <i>Nano Letters</i> , 2018, 18, 2450-2458.	9.1	125
3	Promotion of electrochemical oxygen evolution reaction by chemical coupling of cobalt to molybdenum carbide. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 340-348.	20.2	110
4	High-Performance Sb/Sb ₂ O ₃ Anode Materials Using a Polypyrrole Nanowire Network for Na-ion Batteries. <i>Small</i> , 2015, 11, 2885-2892.	10.0	105
5	Cobalt-carbon nanofibers as an efficient support-free catalyst for oxygen reduction reaction with a systematic study of active site formation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14284-14290.	10.3	77
6	Design of Mg@Ni alloys for fast hydrogen generation from seawater and their application in polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 5296-5303.	7.1	77
7	Single-step synthesis of polypyrrole nanowires by cathodic electropolymerization. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8061.	10.3	54
8	Electrospun Nb-doped TiO ₂ nanofiber support for Pt nanoparticles with high electrocatalytic activity and durability. <i>Scientific Reports</i> , 2017, 7, 44411.	3.3	53
9	Characterization of hydrogen generation for fuel cells via borane hydrolysis using an electroless-deposited Co@P/Ni foam catalyst. <i>Journal of Power Sources</i> , 2010, 195, 2830-2834.	7.8	52
10	High-performance membrane-electrode assembly with an optimal polytetrafluoroethylene content for high-temperature polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2016, 323, 142-146.	7.8	49
11	Fabrication of Mg@Ni@Sn alloys for fast hydrogen generation in seawater. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 7761-7769.	7.1	49
12	Advanced Zirfon-type porous separator for a high-rate alkaline electrolyser operating in a dynamic mode. <i>Journal of Membrane Science</i> , 2020, 616, 118541.	8.2	49
13	Design of ternary Al@Sn@Fe alloy for fast on-board hydrogen production, and its application to PEM fuel cell. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11825-11831.	7.1	42
14	Sacrificial Anode-Free Electrosynthesis of α -Hydroxy Acids via Electrocatalytic Coupling of Carbon Dioxide to Aromatic Alcohols. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15860-15864.	6.7	40
15	Design of Al@Fe alloys for fast on-board hydrogen production from hydrolysis. <i>Journal of Materials Chemistry</i> , 2011, 21, 13047.	6.7	34
16	On-board hydrogen production by hydrolysis from designed Al@Cu alloys and the application of this technology to polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2012, 217, 345-350.	7.8	32
17	Design of an Advanced Membrane Electrode Assembly Employing a Double-Layered Cathode for a PEM Fuel Cell. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27581-27585.	8.0	30
18	Synergetic effects of edge formation and sulfur doping on the catalytic activity of a graphene-based catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14400-14407.	10.3	30

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19	Design of Mg-Cu alloys for fast hydrogen production, and its application to PEM fuel cell. <i>Journal of Alloys and Compounds</i> , 2018, 741, 590-596.	5.5	30
20	Facile synthesis of SnO ₂ -polypyrrole hybrid nanowires by cathodic electrodeposition and their application to Li-ion battery anodes. <i>RSC Advances</i> , 2013, 3, 16102.	3.6	29
21	Thermochemical production of sodium borohydride from sodium metaborate in a scaled-up reactor. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2804-2809.	7.1	29
22	Highly efficient and durable TiN nanofiber electrocatalyst supports. <i>Nanoscale</i> , 2015, 7, 18429-18434.	5.6	28
23	Boosting the Role of Ir in Mitigating Corrosion of Carbon Support by Alloying with Pt. <i>ACS Catalysis</i> , 2020, 10, 12300-12309.	11.2	26
24	Atomically ordered Pt ₃ Mn intermetallic electrocatalysts for the oxygen reduction reaction in fuel cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 7399-7408.	10.3	26
25	Carbon nanotubes/aluminum composite as a hydrogen source for PEMFC. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19416-19423.	7.1	23
26	One-step synthesis of multilayered 2D Sn nanodendrites as a high-performance anode material for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 20304-20315.	10.3	21
27	Cerium Oxide/Polysulfone Composite Separator for an Advanced Alkaline Electrolyzer. <i>Polymers</i> , 2020, 12, 2821.	4.5	18
28	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.	10.3	18
29	Fe and N Codoped Mesoporous Carbon Nanofiber as a Nonprecious Metal Catalyst for Oxygen Reduction Reaction and a Durable Support for Pt Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17544-17552.	6.7	14
30	Thin Nickel Layer with Embedded WC Nanoparticles for Efficient Oxygen Evolution. <i>ACS Applied Energy Materials</i> , 2019, 2, 3452-3460.	5.1	14
31	Sacrificial species approach to designing robust transition metal phosphide cathodes for alkaline water electrolysis in discontinuous operation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16713-16724.	10.3	13
32	Effects of heat treatment time on electrochemical properties and electrode structure of polytetrafluoroethylene-bonded membrane electrode assemblies for polybenzimidazole-based high-temperature proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 12335-12342.	7.1	12
33	One-step synthesis of a Si/CNT/polypyrrole composite film by electrochemical deposition. <i>RSC Advances</i> , 2014, 4, 10212.	3.6	11
34	Electrochemical analysis on the growth of oxide formed on stainless steels in molten carbonate at 650°C. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 12291-12299.	7.1	11
35	The Structural Effect of Electrode Mesh on Hydrogen Evolution Reaction Performance for Alkaline Water Electrolysis. <i>Frontiers in Chemistry</i> , 2021, 9, 787787.	3.6	10
36	Corrosion-resistant coating for cathode current collector and wet-seal area of molten carbonate fuel cells. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11363-11371.	7.1	6

#	ARTICLE	IF	CITATIONS
37	Carbon Nanotube/Magnesium Composite as a Hydrogen Source. Journal of Nanoscience and Nanotechnology, 2015, 15, 8837-8841.	0.9	5