Min-Joong Kim

List of Publications by Year
in descending order

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	Atomically ordered Pt₃Mn intermetallic electrocatalysts for the oxygen reduction reaction in fuel cells. Journal of Materials Chemistry A, 2022, 10, 7399-7408.	10.3	26
2	Sacrificial species approach to designing robust transition metal phosphide cathodes for alkaline water electrolysis in discontinuous operation. Journal of Materials Chemistry A, 2021, 9, 16713-16724.	10.3	13
3	A target-customized carbon shell structure of carbon-encapsulated metal nanoparticles for fuel cell applications. Journal of Materials Chemistry A, 2021, 9, 24480-24487.	10.3	18
4	The Structural Effect of Electrode Mesh on Hydrogen Evolution Reaction Performance for Alkaline Water Electrolysis. Frontiers in Chemistry, 2021, 9, 787787.	3.6	10
5	Advanced Zirfon-type porous separator for a high-rate alkaline electrolyser operating in a dynamic mode. Journal of Membrane Science, 2020, 616, 118541.	8.2	49
6	Boosting the Role of Ir in Mitigating Corrosion of Carbon Support by Alloying with Pt. ACS Catalysis, 2020, 10, 12300-12309.	11.2	26
7	Cerium Oxideâ€“Polysulfone Composite Separator for an Advanced Alkaline Electrolyzer. Polymers, 2020, 12, 2821.	4.5	18
8	Sacrificial Anode-Free Electrosynthesis of Î±-Hydroxy Acids via Electrocatalytic Coupling of Carbon Dioxide to Aromatic Alcohols. ACS Sustainable Chemistry and Engineering, 2019, 7, 15860-15864.	6.7	40
9	Fe and N Codoped Mesoporous Carbon Nanofiber as a Nonprecious Metal Catalyst for Oxygen Reduction Reaction and a Durable Support for Pt Nanoparticles. ACS Sustainable Chemistry and Engineering, 2019, 7, 17544-17552.	6.7	14
10	Thin Nickel Layer with Embedded WC Nanoparticles for Efficient Oxygen Evolution. ACS Applied Energy Materials, 2019, 2, 3452-3460.	5.1	14
11	Promotion of electrochemical oxygen evolution reaction by chemical coupling of cobalt to molybdenum carbide. Applied Catalysis B: Environmental, 2018, 227, 340-348.	20.2	110
12	Design of Mg-Cu alloys for fast hydrogen production, and its application to PEM fuel cell. Journal of Alloys and Compounds, 2018, 741, 590-596.	5.5	30
13	Gaâ€“Doped Ptâ€“Ni Octahedral Nanoparticles as a Highly Active and Durable Electrocatalyst for Oxygen Reduction Reaction. Nano Letters, 2018, 18, 2450-2458.	9.1	125
14	Corrosion-resistant coating for cathode current collector and wet-seal area of molten carbonate fuel cells. International Journal of Hydrogen Energy, 2018, 43, 11363-11371.	7.1	6
15	Electrospun Nb-doped TiO2 nanofiber support for Pt nanoparticles with high electrocatalytic activity and durability. Scientific Reports, 2017, 7, 44411.	3.3	53
16	Fabrication of Mgâ€“Niâ€“Sn alloys for fast hydrogen generation in seawater. International Journal of Hydrogen Energy, 2017, 42, 7761-7769.	7.1	49
17	One-step synthesis of multilayered 2D Sn nanodendrites as a high-performance anode material for Na-ion batteries. Journal of Materials Chemistry A, 2017, 5, 20304-20315.	10.3	21
18	High-performance membrane-electrode assembly with an optimal polytetrafluoroethylene content for high-temperature polymer electrolyte membrane fuel cells. Journal of Power Sources, 2016, 323, 142-146.	7.8	49

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19	Synergetic effects of edge formation and sulfur doping on the catalytic activity of a graphene-based catalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 14400-14407.	10.3	30
20	Porous Coâ€“P foam as an efficient bifunctional electrocatalyst for hydrogen and oxygen evolution reactions. Journal of Materials Chemistry A, 2016, 4, 18272-18277.	10.3	130
21	Design of Mgâ€“Ni alloys for fast hydrogen generation from seawater and their application in polymer electrolyte membrane fuel cells. International Journal of Hydrogen Energy, 2016, 41, 5296-5303.	7.1	77
22	Carbon Nanotube/Magnesium Composite as a Hydrogen Source. Journal of Nanoscience and Nanotechnology, 2015, 15, 8837-8841.	0.9	5
23	Design of an Advanced Membrane Electrode Assembly Employing a Double-Layered Cathode for a PEM Fuel Cell. ACS Applied Materials & Interfaces, 2015, 7, 27581-27585.	8.0	30
24	Cobalt-carbon nanofibers as an efficient support-free catalyst for oxygen reduction reaction with a systematic study of active site formation. Journal of Materials Chemistry A, 2015, 3, 14284-14290.	10.3	77
25	Highâ€Performance Sb/Sb₂O₃ Anode Materials Using a Polypyrrole Nanowire Network for Naâ€Ion Batteries. Small, 2015, 11, 2885-2892.	10.0	105
26	Highly efficient and durable TiN nanofiber electrocatalyst supports. Nanoscale, 2015, 7, 18429-18434.	5.6	28
27	One-step synthesis of a Si/CNTâ€“polypyrrole composite film by electrochemical deposition. RSC Advances, 2014, 4, 10212.	3.6	11
28	Carbon nanotubes/aluminum composite as a hydrogen source for PEMFC. International Journal of Hydrogen Energy, 2014, 39, 19416-19423.	7.1	23
29	Electrochemical analysis on the growth of oxide formed on stainless steels in molten carbonate at 650ÂÂ°C. International Journal of Hydrogen Energy, 2014, 39, 12291-12299.	7.1	11
30	Facile synthesis of SnO2-polypyrrole hybrid nanowires by cathodic electrodeposition and their application to Li-ion battery anodes. RSC Advances, 2013, 3, 16102.	3.6	29
31	Single-step synthesis of polypyrrole nanowires by cathodic electropolymerization. Journal of Materials Chemistry A, 2013, 1, 8061.	10.3	54
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. International Journal of Hydrogen Energy, 2013, 38, 12335-12342.	7.1	12
33	Thermochemical production of sodium borohydride from sodium metaborate in a scaled-up reactor. International Journal of Hydrogen Energy, 2013, 38, 2804-2809.	7.1	29
34	On-board hydrogen production by hydrolysis from designed Alâ€“Cu alloys and the application of this technology to polymer electrolyte membrane fuel cells. Journal of Power Sources, 2012, 217, 345-350.	7.8	32
35	Design of Alâ€“Fe alloys for fast on-board hydrogen production from hydrolysis. Journal of Materials Chemistry, 2011, 21, 13047.	6.7	34
36	Design of ternary Alâ€“Snâ€“Fe alloy for fast on-board hydrogen production, and its application to PEM fuel cell. International Journal of Hydrogen Energy, 2011, 36, 11825-11831.	7.1	42

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37	Characterization of hydrogen generation for fuel cells via borane hydrolysis using an electroless-deposited Coâ€“P/Ni foam catalyst. Journal of Power Sources, 2010, 195, 2830-2834.	7.8	52