

Hoyoung Kim

List of Publications by Year in descending order

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31
papers

759
citations

567281

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31
docs citations

31
times ranked

830
citing authors

#	ARTICLE	IF	CITATIONS
1	High-activity electrodeposited NiW catalysts for hydrogen evolution in alkaline water electrolysis. <i>Applied Surface Science</i> , 2015, 349, 629-635.	6.1	85
2	AgIn dendrite catalysts for electrochemical reduction of CO ₂ to CO. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 123-131.	20.2	64
3	Non-precious metal electrocatalysts for hydrogen production in proton exchange membrane water electrolyzer. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 608-616.	20.2	54
4	Structure engineering defective and mass transfer-enhanced RuO ₂ nanosheets for proton exchange membrane water electrolyzer. <i>Nano Energy</i> , 2021, 88, 106276.	16.0	49
5	An extremely low Pt loading cathode for a highly efficient proton exchange membrane water electrolyzer. <i>Nanoscale</i> , 2017, 9, 19045-19049.	5.6	44
6	A highly active and stable 3D dandelion spore-structured self-supporting Ir-based electrocatalyst for proton exchange membrane water electrolysis fabricated using structural reconstruction. <i>Energy and Environmental Science</i> , 2022, 15, 3449-3461.	30.8	44
7	Phase transformation of iron phosphide nanoparticles for hydrogen evolution reaction electrocatalysis. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 11326-11334.	7.1	43
8	Pulse-electrodeposited nickel phosphide for high-performance proton exchange membrane water electrolysis. <i>Journal of Alloys and Compounds</i> , 2019, 785, 296-304.	5.5	40
9	Activity and stability of the oxygen evolution reaction on electrodeposited Ru and its thermal oxides. <i>Applied Surface Science</i> , 2015, 359, 227-235.	6.1	31
10	Electrochemically Fabricated NiW on a Cu Nanowire as a Highly Porous Non-Precious-Metal Cathode Catalyst for a Proton Exchange Membrane Water Electrolyzer. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8265-8273.	6.7	30
11	Electrodeposition-fabricated PtCu-alloy cathode catalysts for high-temperature proton exchange membrane fuel cells. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1547-1555.	2.7	26
12	Direct fabrication of gas diffusion cathode by pulse electrodeposition for proton exchange membrane water electrolysis. <i>Applied Surface Science</i> , 2018, 444, 303-311.	6.1	23
13	Facile electrochemical preparation of nonprecious Co-Cu alloy catalysts for hydrogen production in proton exchange membrane water electrolysis. <i>International Journal of Energy Research</i> , 2020, 44, 2833-2844.	4.5	22
14	Facile fabrication of amorphous NiMo catalysts for alkaline hydrogen oxidation reaction. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 94, 309-316.	5.8	19
15	Performance enhancement of high-temperature polymer electrolyte membrane fuel cells using Pt pulse electrodeposition. <i>Journal of Power Sources</i> , 2019, 438, 227022.	7.8	17
16	Multicomponent nonprecious hydrogen evolution catalysts for high performance and durable proton exchange membrane water electrolyzer. <i>Journal of Power Sources</i> , 2021, 506, 230200.	7.8	17
17	Design of nanocatalyst for electrode structure: Electrophoretic deposition of iron phosphide nanoparticles to produce a highly active hydrogen evolution reaction catalyst. <i>Chemical Engineering Journal</i> , 2022, 431, 133217.	12.7	15
18	Binder-coated electrodeposited PtNiCu catalysts for the oxygen reduction reaction in high-temperature polymer electrolyte membrane fuel cells. <i>Applied Surface Science</i> , 2020, 510, 145444.	6.1	14

#	ARTICLE	IF	CITATIONS
19	Electrochemically Fabricated Pd-In Catalysts for Carbon Dioxide-Formate/Formic Acid Interconversion. Bulletin of the Korean Chemical Society, 2017, 38, 607-613.	1.9	13
20	Pd-Sn Alloy Electrocatalysts for Interconversion Between Carbon Dioxide and Formate/Formic Acid. Journal of Nanoscience and Nanotechnology, 2017, 17, 7547-7555.	0.9	13
21	Ag-deposited Ti gas diffusion electrode in proton exchange membrane CO ₂ electrolyzer for CO production. Journal of Industrial and Engineering Chemistry, 2020, 82, 374-382.	5.8	13
22	Electrochemical Reduction of Carbon Dioxide Using Ag Catalysts Prepared by Electrodeposition in the Presence of Additives. Journal of Nanoscience and Nanotechnology, 2017, 17, 7843-7851.	0.9	12
23	Fabrication of Large Area Ag Gas Diffusion Electrode via Electrodeposition for Electrochemical CO ₂ Reduction. Coatings, 2020, 10, 341.	2.6	12
24	Acid-durable, high-performance cobalt phosphide catalysts for hydrogen evolution in proton exchange membrane water electrolysis. International Journal of Energy Research, 2021, 45, 16842-16855.	4.5	12
25	Electrochemical Conversion of Carbon Dioxide to Formic Acid on Sn-Zn Alloy Catalysts Prepared by Electrodeposition. Journal of Nanoscience and Nanotechnology, 2016, 16, 10470-10474.	0.9	10
26	Performance deterioration and recovery in high-temperature polymer electrolyte membrane fuel cells: Effects of deliquescence of phosphoric acid. International Journal of Hydrogen Energy, 2020, 45, 32844-32855.	7.1	8
27	Electrodeposited NiRh alloy as an efficient low-precious metal catalyst for alkaline hydrogen oxidation reaction. International Journal of Energy Research, 2021, 45, 5325-5336.	4.5	8
28	Restructured Co-Ru alloys via electrodeposition for efficient hydrogen production in proton exchange membrane water electrolyzers. International Journal of Energy Research, 2022, 46, 7975-7987.	4.5	7
29	Electrodeposition-fabricated catalysts for polymer electrolyte water electrolysis. Korean Journal of Chemical Engineering, 2020, 37, 1275-1294.	2.7	6
30	Electrochemical Preparation of Ru/Co Bi-layered Catalysts on Ti Substrates for the Oxygen Evolution Reaction. Bulletin of the Korean Chemical Society, 2016, 37, 1270-1277.	1.9	5
31	Chemical transformation of solution-processed Ag nanocrystal thin films into electrically conductive and catalytically active Pt-based nanostructures. Journal of Industrial and Engineering Chemistry, 2019, 76, 388-395.	5.8	3