Taehyun Kwon

List of Publications by Year
in descending order

34 papers	1,834 citations	471371 17 h-index	377752 34 g-index
34 all docs	34 docs citations	34 times ranked	2598 citing authors

#	Article	IF	Citations
1	Mnâ€Dopant Differentiating the Ru and Ir Oxidation States in Catalytic Oxides Toward Durable Oxygen Evolution Reaction in Acidic Electrolyte. Small Methods, 2022, 6, e2101236.	4.6	31
2	Boosting antioxidation efficiency of nonstoichiometric CeOx nanoparticles via surface passivation toward robust polymer electrolyte membrane fuel cells. Chemical Engineering Journal, 2022, 432, 134419.	6.6	10
3	Safeguarding the RuO₂ phase against lattice oxygen oxidation during acidic water electrooxidation. Energy and Environmental Science, 2022, 15, 1119-1130.	15.6	66
4	Ce(III)â€Based Coordinationâ€Complexâ€Based Efficient Radical Scavenger for Exceptional Durability Enhancement of Polymer Application in Protonâ€Exchange Membrane Fuel Cells and Organic Photovoltaics. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	5
5	Chemical Fields: Directing Atom Migration in the Multiphasic Nanocrystal. Accounts of Chemical Research, 2022, 55, 1015-1024.	7.6	3
6	Double Hypercrosslinked Porous Organic Polymer-Derived Electrocatalysts for a Water Splitting Device. ACS Applied Energy Materials, 2022, 5, 3269-3274.	2.5	6
7	Recent advances in the electrochemical CO reduction reaction towards highly selective formation of Cx products (XÂ= 1â€“3). Chem Catalysis, 2022, 2, 1961-1988.	2.9	7
8	Antioxidant technology for durability enhancement in polymer electrolyte membranes for fuel cell applications. Materials Today, 2022, 58, 135-163.	8.3	18
9	Multimetallic nanostructures for electrocatalytic oxygen evolution reaction in acidic media. Materials Chemistry Frontiers, 2021, 5, 4445-4473.	3.2	14
10	Interfacing RuO₂ with Pt to induce efficient charge transfer from Pt to RuO₂ for highly efficient and stable oxygen evolution in acidic media. Journal of Materials Chemistry A, 2021, 9, 14352-14362.	5.2	25
11	Dopants in the Design of Noble Metal Nanoparticle Electrocatalysts and their Effect on Surface Energy and Coordination Chemistry at the Nanocrystal Surface. Advanced Energy Materials, 2021, 11, 2100265.	10.2	25
12	Pd₃Pb Nanosponges for Selective Conversion of Furfural to Furfuryl Alcohol under Mild Condition. Small Methods, 2021, 5, e2100400.	4.6	8
13	Singleâ€Step Fabrication of Polymeric Composite Membrane via Centrifugal Colloidal Casting for Fuel Cell Applications. Small Methods, 2021, 5, e2100285.	4.6	6
14	Facile oneâ€step synthesis of Ru doped NiCoP nanoparticles as highly efficient electrocatalysts for oxygen evolution reaction. Chemistry - an Asian Journal, 2021, 16, 3630-3635.	1.7	5
15	Pt²⁺-Exchanged ZIF-8 nanocube as a solid-state precursor for L1₀-PtZn intermetallic nanoparticles embedded in a hollow carbon nanocage. Nanoscale, 2020, 12, 1118-1127.	2.8	10
16	Pt Dopant: Controlling the Ir Oxidation States toward Efficient and Durable Oxygen Evolution Reaction in Acidic Media. Advanced Functional Materials, 2020, 30, 2003935.	7.8	50
17	IrCo nanocacti on Co_xS_y nanocages as a highly efficient and robust electrocatalyst for the oxygen evolution reaction in acidic media. Nanoscale, 2020, 12, 17074-17082.	2.8	11
18	Dopant-Assisted Control of the Crystallite Domain Size in Hollow Ternary Iridium Alloy Octahedral Nanocages toward the Oxygen Evolution Reaction. Cell Reports Physical Science, 2020, 1, 100260.	2.8	14

#	Article	IF	Citations
19	Intermetallic PtCu Nanoframes as Efficient Oxygen Reduction Electrocatalysts. Nano Letters, 2020, 20, 7413-7421.	4.5	109
20	Electrocatalysts: Pt Dopant: Controlling the Ir Oxidation States toward Efficient and Durable Oxygen Evolution Reaction in Acidic Media (Adv. Funct. Mater. 38/2020). Advanced Functional Materials, 2020, 30, 2070253.	7.8	4
21	Stacked CdTe/CdS Nanodiscs via Intraparticle Migration of CdTe on CdS. Chemistry of Materials, 2020, 32, 10104-10112.	3.2	5
22	Potential Link between Cu Surface and Selective CO₂ Electroreduction: Perspective on Future Electrocatalyst Designs. Advanced Materials, 2020, 32, e1908398.	11.1	182
23	High entropy alloy electrocatalysts: a critical assessment of fabrication and performance. Journal of Materials Chemistry A, 2020, 8, 14844-14862.	5.2	108
24	Catalytic Nanoframes and Beyond. Advanced Materials, 2020, 32, e2001345.	11.1	57
25	Ideal design of air electrodeâ€”A step closer toward robust rechargeable Znâ€“air battery. APL Materials, 2020, 8, .	2.2	27
26	Longitudinal Strain Engineering of Cu2â€“xS by the Juxtaposed Cu5FeS4 Phase in the Cu5FeS4/Cu2â€“xS/Cu5FeS4 Nanosandwich. Chemistry of Materials, 2019, 31, 9070-9077.	3.2	12
27	Nanoscale hetero-interfaces between metals and metal compounds for electrocatalytic applications. Journal of Materials Chemistry A, 2019, 7, 5090-5110.	5.2	128
28	Vertexâ€Reinforced PtCuCo Ternary Nanoframes as Efficient and Stable Electrocatalysts for the Oxygen Reduction Reaction and the Methanol Oxidation Reaction. Advanced Functional Materials, 2018, 28, 1706440.	7.8	161
29	Ni@Ru and NiCo@Ru Coreâ€“Shell Hexagonal Nanosandwiches with a Compositionally Tunable Core and a Regioselectively Grown Shell. Small, 2018, 14, 1702353.	5.2	50
30	RuO_x-decorated multimetallic hetero-nanocages as highly efficient electrocatalysts toward the methanol oxidation reaction. Nanoscale, 2018, 10, 21178-21185.	2.8	21
31	Hollow nanoparticles as emerging electrocatalysts for renewable energy conversion reactions. Chemical Society Reviews, 2018, 47, 8173-8202.	18.7	222
32	Cobalt Assisted Synthesis of IrCu Hollow Octahedral Nanocages as Highly Active Electrocatalysts toward Oxygen Evolution Reaction. Advanced Functional Materials, 2017, 27, 1604688.	7.8	186
33	Iridium-Based Multimetallic Nanoframe@Nanoframe Structure: An Efficient and Robust Electrocatalyst toward Oxygen Evolution Reaction. ACS Nano, 2017, 11, 5500-5509.	7.3	243
34	Unexpected solution phase formation of hollow PtSn alloy nanoparticles from Sn deposition on Pt dendritic structures. CrystEngComm, 2016, 18, 6019-6023.	1.3	5