

# Haneul Jin

## List of Publications by Year in descending order

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31  
papers

2,123  
citations

304368

22  
h-index

433756

31  
g-index

33  
all docs

33  
docs citations

33  
times ranked

3388  
citing authors

#	ARTICLE	IF	CITATIONS
1	MXene: an emerging two-dimensional material for future energy conversion and storage applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24564-24579.	5.2	450
2	Nanostructured materials on 3D nickel foam as electrocatalysts for water splitting. <i>Nanoscale</i> , 2017, 9, 12231-12247.	2.8	403
3	Hollow nanoparticles as emerging electrocatalysts for renewable energy conversion reactions. <i>Chemical Society Reviews</i> , 2018, 47, 8173-8202.	18.7	222
4	Ga <sup>III</sup> -Based Liquid Metal Micro/Nanoparticles: Recent Advances and Applications. <i>Small</i> , 2020, 16, e1903391.	5.2	140
5	Lanthanide metal-assisted synthesis of rhombic dodecahedral M <sub>2</sub> Ni (M = Ir and Pt) nanoframes toward efficient oxygen evolution catalysis. <i>Nano Energy</i> , 2017, 42, 17-25.	8.2	94
6	Nanocatalyst Design for Long-Term Operation of Proton/Anion Exchange Membrane Water Electrolysis. <i>Advanced Energy Materials</i> , 2021, 11, 2003188.	10.2	89
7	Recent Progress in Bifunctional Electrocatalysts for Overall Water Splitting under Acidic Conditions. <i>ChemElectroChem</i> , 2019, 6, 3244-3253.	1.7	79
8	Safeguarding the RuO <sub>2</sub> phase against lattice oxygen oxidation during acidic water electrooxidation. <i>Energy and Environmental Science</i> , 2022, 15, 1119-1130.	15.6	66
9	An IrRu alloy nanocactus on Cu <sub>2</sub> S@IrS <sub>y</sub> as a highly efficient bifunctional electrocatalyst toward overall water splitting in acidic electrolytes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16130-16138.	5.2	58
10	Synthesis of compositionally tunable, hollow mixed metal sulphide Co <sub>x</sub> Ni <sub>y</sub> S <sub>z</sub> octahedral nanocages and their composition-dependent electrocatalytic activities for oxygen evolution reaction. <i>Nanoscale</i> , 2017, 9, 15397-15406.	2.8	52
11	Hemi-core@frame AuCu@IrNi nanocrystals as active and durable bifunctional catalysts for the water splitting reaction in acidic media. <i>Nanoscale Horizons</i> , 2019, 4, 727-734.	4.1	43
12	Single-atom oxygen reduction reaction electrocatalysts of Fe, Si, and N co-doped carbon with 3D interconnected mesoporosity. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4297-4309.	5.2	43
13	Scalable synthesis of djurleite copper sulphide (Cu <sub>1.94</sub> S) hexagonal nanoplates from a single precursor copper thiocyanate and their photothermal properties. <i>CrystEngComm</i> , 2015, 17, 4627-4631.	1.3	36
14	Highly Crystalline Pd <sub>13</sub> Cu <sub>3</sub> S <sub>7</sub> Nanoplates Prepared via Partial Cation Exchange of Cu <sub>1.81</sub> S Templates as an Efficient Electrocatalyst for the Hydrogen Evolution Reaction. <i>Chemistry of Materials</i> , 2018, 30, 6884-6892.	3.2	36
15	Vacancy-engineered catalysts for water electrolysis. <i>CrystEngComm</i> , 2020, 22, 1500-1513.	1.3	36
16	Rational Synthesis of Heterostructured M/Pt (M = Ru or Rh) Octahedral Nanoboxes and Octapods and Their Structure-Dependent Electrochemical Activity Toward the Oxygen Evolution Reaction. <i>Small</i> , 2015, 11, 4462-4468.	5.2	32
17	Metastable hexagonal close-packed palladium hydride in liquid cell TEM. <i>Nature</i> , 2022, 603, 631-636.	13.7	31
18	Morphology controlled synthesis of 2-D Ni <sub>3</sub> S <sub>2</sub> and Ni <sub>3</sub> S <sub>2</sub> nanostructures on Ni foam towards oxygen evolution reaction. <i>Nano Convergence</i> , 2017, 4, .	6.3	28

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19	A facet-controlled Rh <sub>3</sub> Pb <sub>2</sub> S <sub>2</sub> nanocage as an efficient and robust electrocatalyst toward the hydrogen evolution reaction. <i>Nanoscale</i> , 2018, 10, 9845-9850.	2.8	28
20	Waste pig blood-derived 2D Fe single-atom porous carbon as an efficient electrocatalyst for zinc-air batteries and AEMFCs. <i>Applied Surface Science</i> , 2021, 563, 150208.	3.1	25
21	Highly Crystalline Hollow Toroidal Copper Phosphosulfide <i>via</i> Anion Exchange: A Versatile Cation Exchange Nanoplatfom. <i>ACS Nano</i> , 2020, 14, 11205-11214.	7.3	24
22	Ternary dendritic nanowires as highly active and stable multifunctional electrocatalysts. <i>Nanoscale</i> , 2016, 8, 15167-15172.	2.8	23
23	Infrared Probing of Equilibrium and Dynamics of Metal-Selenocyanate Ion Pairs in N,N-Dimethylformamide Solutions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9152-9159.	1.2	17
24	Sacrificial Dopant to Enhance the Activity and Durability of Electrochemical N <sub>2</sub> Reduction Catalysis. <i>ACS Catalysis</i> , 2022, 12, 5684-5697.	5.5	12
25	Strategic design for promoting water behavior via ensemble of thermo-responsive polymer functionalized catalysts and reservoir carbon in anion exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2021, 494, 229738.	4.0	9
26	Pd <sub>3</sub> Pb Nanosponges for Selective Conversion of Furfural to Furfuryl Alcohol under Mild Condition. <i>Small Methods</i> , 2021, 5, e2100400.	4.6	8
27	Capping agent-free synthesis of surface engineered Pt nanocube for direct ammonia fuel cell. <i>International Journal of Energy Research</i> , 2021, 45, 18281-18291.	2.2	7
28	Tailoring of Pt Island RuO <sub>2</sub> /C Catalysts by Galvanic Replacement to Achieve Superior Hydrogen Oxidation Reaction and CO Poisoning Resistance. <i>ACS Applied Energy Materials</i> , 2021, 4, 8098-8107.	2.5	6
29	Anion Constructor for Atomic-Scale Engineering of Antiperovskite Crystals for Electrochemical Reactions. <i>Advanced Functional Materials</i> , 2021, 31, 2009241.	7.8	4
30	One step synthesis of hierarchical dendritic Pt nanostructures with a concave Pt octahedron building unit via simultaneous vertex growth and facet etching. <i>CrystEngComm</i> , 2015, 17, 6848-6851.	1.3	3
31	Nanoparticles: Rational Synthesis of Heterostructured M/Pt (M = Ru or Rh) Octahedral Nanoboxes and Octapods and Their Structure-Dependent Electrochemical Activity Toward the Oxygen Evolution Reaction ( <i>Small</i> 35/2015). <i>Small</i> , 2015, 11, 4604-4604.	5.2	0