Gao-Feng Han

List of Publications by Year
in descending order

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40 papers	3,337 citations	257101 24 h-index	301761 39 g-index
40 all docs	40 docs citations	40 times ranked	5737 citing authors

#	Article	IF	Citations
1	Boosting oxygen reduction catalysis with abundant copper single atom active sites. Energy and Environmental Science, 2018, 11, 2263-2269.	15.6	405
2	Controllable Growth and Transfer of Monolayer MoS₂ on Au Foils and Its Potential Application in Hydrogen Evolution Reaction. ACS Nano, 2014, 8, 10196-10204.	7.3	404
3	Building and identifying highly active oxygenated groups in carbon materials for oxygen reduction to H2O2. Nature Communications, 2020, 11, 2209.	5.8	281
4	Nanoporous gold supported cobalt oxide microelectrodes as high-performance electrochemical biosensors. Nature Communications, 2013, 4, 2169.	5.8	261
5	Mechanochemically Assisted Synthesis of a Ru Catalyst for Hydrogen Evolution with Performance Superior to Pt in Both Acidic and Alkaline Media. Advanced Materials, 2018, 30, e1803676.	11.1	173
6	Dendritic, Transferable, Strictly Monolayer MoS₂ Flakes Synthesized on SrTiO₃ Single Crystals for Efficient Electrocatalytic Applications. ACS Nano, 2014, 8, 8617-8624.	7.3	158
7	Mechanochemistry for ammonia synthesis under mild conditions. Nature Nanotechnology, 2021, 16, 325-330.	15.6	141
8	Balancing hydrogen adsorption/desorption by orbital modulation for efficient hydrogen evolution catalysis. Nature Communications, 2019, 10, 4060.	5.8	131
9	Mesostructured Intermetallic Compounds of Platinum and Nonâ€Transition Metals for Enhanced Electrocatalysis of Oxygen Reduction Reaction. Advanced Functional Materials, 2015, 25, 230-237.	7.8	127
10	Defect-Free Encapsulation of Fe⁰ in 2D Fused Organic Networks as a Durable Oxygen Reduction Electrocatalyst. Journal of the American Chemical Society, 2018, 140, 1737-1742.	6.6	124
11	Carbonâ€Based Electrocatalysts for Efficient Hydrogen Peroxide Production. Advanced Materials, 2021, 33, e2103266.	11.1	104
12	Macroporous Inverse Opal-like Mo_xC with Incorporated Mo Vacancies for Significantly Enhanced Hydrogen Evolution. ACS Nano, 2017, 11, 7527-7533.	7.3	102
13	Abrading bulk metal into single atoms. Nature Nanotechnology, 2022, 17, 403-407.	15.6	102
14	Chemical vapor deposition of monolayer WS2 nanosheets on Au foils toward direct application in hydrogen evolution. Nano Research, 2015, 8, 2881-2890.	5.8	91
15	Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst. Small, 2017, 13, 1701167.	5.2	82
16	Identifying the structure of Zn-N2 active sites and structural activation. Nature Communications, 2019, 10, 2623.	5.8	79
17	Construction of Porous Mo₃P/Mo Nanobelts as Catalysts for Efficient Water Splitting. Angewandte Chemie - International Edition, 2018, 57, 14139-14143.	7.2	70
18	Revealing Isolated Mâ€™N₃C₁ Active Sites for Efficient Collaborative Oxygen Reduction Catalysis. Angewandte Chemie - International Edition, 2020, 59, 23678-23683.	7.2	64

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19	Construction of Porous Mo₃P/Mo Nanobelts as Catalysts for Efficient Water Splitting. Angewandte Chemie, 2018, 130, 14335-14339.	1.6	58
20	Integrated Solid/Nanoporous Copper/Oxide Hybrid Bulk Electrodes for High-performance Lithium-Ion Batteries. Scientific Reports, 2013, 3, 2878.	1.6	53
21	Facile Synthesis of Non-Graphitizable Polypyrrole-Derived Carbon/Carbon Nanotubes for Lithium-ion Batteries. Scientific Reports, 2016, 6, 19317.	1.6	52
22	Narrowâ€Gap Quantum Wires Arising from the Edges of Monolayer MoS₂ Synthesized on Graphene. Advanced Materials Interfaces, 2016, 3, 1600332.	1.9	30
23	Scalable Nanoporous (Pt_{1â€“x}Ni_x)₃Al Intermetallic Compounds as Highly Active and Stable Catalysts for Oxygen Electroreduction. ACS Applied Materials & Interfaces, 2016, 8, 32910-32917.	4.0	29
24	Surface Electronic Modulation with Hetero-Single Atoms to Enhance Oxygen Evolution Catalysis. ACS Nano, 2021, 15, 11891-11897.	7.3	27
25	Oxidative Dehydrogenation of Ethylbenzene into Styrene by Fe-Graphitic Catalysts. ACS Nano, 2019, 13, 5893-5899.	7.3	26
26	Self-Grown Ni(OH)₂ Layer on Bimodal Nanoporous AuNi Alloys for Enhanced Electrocatalytic Activity and Stability. ACS Applied Materials & Interfaces, 2014, 6, 16966-16973.	4.0	23
27	Lowâ€Temperature Conversion of Alcohols into Bulky Nanoporous Graphene and Pure Hydrogen with Robust Selectivity on CaO. Advanced Materials, 2019, 31, e1807267.	11.1	22
28	Hydrogen Evolution Reaction: Mechanochemically Assisted Synthesis of a Ru Catalyst for Hydrogen Evolution with Performance Superior to Pt in Both Acidic and Alkaline Media (Adv. Mater. 44/2018). Advanced Materials, 2018, 30, 1870330.	11.1	21
29	Nanoporous (Pt_{1â€“x}Fe_x)₃Al intermetallic compounds for greatly enhanced oxygen electroreduction catalysis. Journal of Materials Chemistry A, 2016, 4, 18878-18884.	5.2	19
30	Unveiling the critical role of active site interaction in single atom catalyst towards hydrogen evolution catalysis. Nano Energy, 2022, 93, 106819.	8.2	19
31	Tuning edge-oxygenated groups on graphitic carbon materials against corrosion. Nano Energy, 2019, 66, 104112.	8.2	13
32	Active Site Engineering in Transition Metal Based Electrocatalysts for Green Energy Applications. Accounts of Materials Research, 2021, 2, 147-158.	5.9	11
33	Dissociating stable nitrogen molecules under mild conditions by cyclic strain engineering. Science Advances, 2019, 5, eaax8275.	4.7	9
34	Revealing Isolated Mâ€“N 3 C 1 Active Sites for Efficient Collaborative Oxygen Reduction Catalysis. Angewandte Chemie, 2020, 132, 23886-23891.	1.6	9
35	Nanocatalytic Materials for Energy-Related Small-Molecules Conversions: Active Site Design, Identification and Structureâ€“Performance Relationship Discovery. Accounts of Chemical Research, 2022, 55, 110-120.	7.6	7
36	Extreme Enhancement of Carbon Hydrogasification via Mechanochemistry. Angewandte Chemie - International Edition, 2022, 61, .	7.2	5

#	Article	IF	Citations
37	Carbonâ€Based Electrocatalysts for Efficient Hydrogen Peroxide Production (Adv. Mater. 49/2021). Advanced Materials, 2021, 33, .	11.1	3
38	Electrocatalysis: Porous Cobalt Phosphide Polyhedrons with Iron Doping as an Efficient Bifunctional Electrocatalyst (Small 40/2017). Small, 2017, 13, .	5.2	1
39	Extreme Enhancement of Carbon Hydrogasification via Mechanochemistry. Angewandte Chemie, 2022, 134, .	1.6	1
40	Solution-Processable Semiconducting Conjugated Planar Network. ACS Applied Materials & Interfaces, 2022, 14, 14588-14595.	4.0	0