Guoping Gao

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2717001/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Revealing the working mechanism of a multi-functional block copolymer binder for lithium-sulfur batteries. Journal of Energy Chemistry, 2021, 59, 1-8.	12.9	8
2	Recent advances in single-atom electrocatalysts supported on two-dimensional materials for the oxygen evolution reaction. Journal of Materials Chemistry A, 2021, 9, 9979-9999.	10.3	50
3	Transition-metal single atoms embedded into defective BC ₃ as efficient electrocatalysts for oxygen evolution and reduction reactions. Nanoscale, 2021, 13, 1331-1339.	5.6	27
4	lon Irradiation Inducing Oxygen Vacancyâ€Rich NiO/NiFe ₂ O ₄ Heterostructure for Enhanced Electrocatalytic Water Splitting. Small, 2021, 17, e2103501.	10.0	76
5	A potential and pH inclusive microkinetic model for hydrogen reactions on Pt surface. Chem Catalysis, 2021, 1, 1331-1345.	6.1	16
6	Computational screening of transition metal-doped phthalocyanine monolayers for oxygen evolution and reduction. Nanoscale Advances, 2020, 2, 710-716.	4.6	30
7	Substantial potential effects on single-atom catalysts for the oxygen evolution reaction simulated via a fixed-potential method. Journal of Catalysis, 2020, 391, 530-538.	6.2	45
8	An inverse vulcanized conductive polymer for Li–S battery cathodes. Journal of Materials Chemistry A, 2020, 8, 21711-21720.	10.3	23
9	Thermodynamic Full Landscape Searching Scheme for Identifying the Mechanism of Electrochemical Reaction: A Case Study of Oxygen Evolution on Fe- and Co-Doped Graphene–Nitrogen Sites. Journal of Physical Chemistry A, 2020, 124, 5444-5455.	2.5	1
10	Distribution of alkali cations near the Cu (111) surface in aqueous solution. Journal of Materials Chemistry A, 2020, 8, 24428-24437.	10.3	6
11	Electrotunable liquid sulfurÂmicrodroplets. Nature Communications, 2020, 11, 606.	12.8	22
12	Solid 3D Li–S Battery Design via Stacking 2D Conductive Microporous Coordination Polymers and Amorphous Li–S Layers. Chemistry of Materials, 2020, 32, 1974-1982.	6.7	11
13	Supercooled liquid sulfur maintained in three-dimensional current collector for high-performance Li-S batteries. Science Advances, 2020, 6, eaay5098.	10.3	95
14	Computational screening of transition-metal single atom doped C ₉ N ₄ monolayers as efficient electrocatalysts for water splitting. Nanoscale, 2019, 11, 18169-18175.	5.6	56
15	Transition-metal single atoms in nitrogen-doped graphenes as efficient active centers for water splitting: a theoretical study. Physical Chemistry Chemical Physics, 2019, 21, 3024-3032.	2.8	122
16	Transition metal-embedded two-dimensional C ₃ N as a highly active electrocatalyst for oxygen evolution and reduction reactions. Journal of Materials Chemistry A, 2019, 7, 12050-12059.	10.3	123
17	Designing a Quinone-Based Redox Mediator to Facilitate Li2S Oxidation in Li-S Batteries. Joule, 2019, 3, 872-884.	24.0	188
18	Anomalous Shape Evolution of Ag ₂ O ₂ Nanocrystals Modulated by Surface Adsorbates during Electron Beam Etching. Nano Letters, 2019, 19, 591-597.	9.1	2

GUOPING GAO

#	Article	IF	CITATIONS
19	Graphene Defects Trap Atomic Ni Species for Hydrogen and Oxygen Evolution Reactions. CheM, 2018, 4, 285-297.	11.7	624
20	Understanding the activity and selectivity of single atom catalysts for hydrogen and oxygen evolution <i>via</i> ab initial study. Catalysis Science and Technology, 2018, 8, 996-1001.	4.1	94
21	Visible light-driven selective hydrogenation of unsaturated aromatics in an aqueous solution by direct photocatalysis of Au nanoparticles. Catalysis Science and Technology, 2018, 8, 726-734.	4.1	23
22	Theoretical Investigation of 2D Conductive Microporous Coordination Polymers as Li–S Battery Cathode with Ultrahigh Energy Density. Advanced Energy Materials, 2018, 8, 1801823.	19.5	63
23	Phase-transition–induced p-n junction in single halide perovskite nanowire. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8889-8894.	7.1	48
24	A Heterostructure Coupling of Exfoliated Ni–Fe Hydroxide Nanosheet and Defective Graphene as a Bifunctional Electrocatalyst for Overall Water Splitting. Advanced Materials, 2017, 29, 1700017.	21.0	845
25	2D MXenes: A New Family of Promising Catalysts for the Hydrogen Evolution Reaction. ACS Catalysis, 2017, 7, 494-500.	11.2	825
26	Stable Copper Nanoparticle Photocatalysts for Selective Epoxidation of Alkenes with Visible Light. ACS Catalysis, 2017, 7, 4975-4985.	11.2	96
27	Ti3C2 MXene co-catalyst on metal sulfide photo-absorbers for enhanced visible-light photocatalytic hydrogen production. Nature Communications, 2017, 8, 13907.	12.8	1,496
28	Endohedral metallofullerenes (M@C60) as efficient catalysts for highly active hydrogen evolution reaction. Journal of Catalysis, 2017, 354, 231-235.	6.2	84
29	Computational screening of two-dimensional coordination polymers as efficient catalysts for oxygen evolution and reduction reaction. Journal of Catalysis, 2017, 352, 579-585.	6.2	130
30	Versatile two-dimensional stanene-based membrane for hydrogen purification. International Journal of Hydrogen Energy, 2017, 42, 5577-5583.	7.1	13
31	Ultrathin Cobaltosic Oxide Nanosheets as an Effective Sulfur Encapsulation Matrix with Strong Affinity Toward Polysulfides. ACS Applied Materials & Interfaces, 2017, 9, 4320-4325.	8.0	59
32	Activating Catalytic Inert Basal Plane of Molybdenum Disulfide to Optimize Hydrogen Evolution Activity via Defect Doping and Strain Engineering. Journal of Physical Chemistry C, 2016, 120, 16761-16766.	3.1	138
33	2D Nanomaterials: Moleculeâ€Induced Conformational Change in Boron Nitride Nanosheets with Enhanced Surface Adsorption (Adv. Funct. Mater. 45/2016). Advanced Functional Materials, 2016, 26, 8356-8356.	14.9	1
34	Graphene-like Two-Dimensional Ionic Boron with Double Dirac Cones at Ambient Condition. Nano Letters, 2016, 16, 3022-3028.	9.1	222
35	Synergistic crystal facet engineering and structural control of WO3 films exhibiting unprecedented photoelectrochemical performance. Nano Energy, 2016, 24, 94-102.	16.0	243
36	Single Atom (Pd/Pt) Supported on Graphitic Carbon Nitride as an Efficient Photocatalyst for Visible-Light Reduction of Carbon Dioxide. Journal of the American Chemical Society, 2016, 138, 6292-6297.	13.7	985

GUOPING GAO

#	Article	IF	CITATIONS
37	Substantial Band-Gap Tuning and a Strain-Controlled Semiconductor to Gapless/Band-Inverted Semimetal Transition in Rutile Lead/Stannic Dioxide. ACS Applied Materials & Interfaces, 2016, 8, 25667-25673.	8.0	18
38	Moleculeâ€Induced Conformational Change in Boron Nitride Nanosheets with Enhanced Surface Adsorption. Advanced Functional Materials, 2016, 26, 8202-8210.	14.9	47
39	Defect Graphene as a Trifunctional Catalyst for Electrochemical Reactions. Advanced Materials, 2016, 28, 9532-9538.	21.0	961
40	Boosting oxygen reduction and hydrogen evolution at the edge sites of a web-like carbon nanotube-graphene hybrid. Carbon, 2016, 107, 739-746.	10.3	25
41	Strong affinity of polysulfide intermediates to multi-functional binder for practical application in lithium–sulfur batteries. Nano Energy, 2016, 26, 722-728.	16.0	72
42	Predicting Single-Layer Technetium Dichalcogenides (TcX ₂ , X = S, Se) with Promising Applications in Photovoltaics and Photocatalysis. ACS Applied Materials & Interfaces, 2016, 8, 5385-5392.	8.0	100
43	Predicting a new phase (T′′) of two-dimensional transition metal di-chalcogenides and strain-controlled topological phase transition. Nanoscale, 2016, 8, 4969-4975.	5.6	50
44	Single Layer Bismuth Iodide: Computational Exploration of Structural, Electrical, Mechanical and Optical Properties. Scientific Reports, 2015, 5, 17558.	3.3	67
45	Calculations of helium separation via uniform pores of stanene-based membranes. Beilstein Journal of Nanotechnology, 2015, 6, 2470-2476.	2.8	9
46	Charge Mediated Semiconducting-to-Metallic Phase Transition in Molybdenum Disulfide Monolayer and Hydrogen Evolution Reaction in New 1T′ Phase. Journal of Physical Chemistry C, 2015, 119, 13124-13128.	3.1	295
47	Modelling CO 2 adsorption and separation on experimentally-realized B 40 fullerene. Computational Materials Science, 2015, 108, 38-41.	3.0	40
48	Versatile Single-Layer Sodium Phosphidostannate(II): Strain-Tunable Electronic Structure, Excellent Mechanical Flexibility, and an Ideal Gap for Photovoltaics. Journal of Physical Chemistry Letters, 2015, 6, 2682-2687.	4.6	60
49	Influence of charge state on catalytic properties of PtAu(CO) in reduction of SO2 by CO. Chemical Physics Letters, 2015, 625, 128-131.	2.6	10
50	Graphene-covered perovskites: an effective strategy to enhance light absorption and resist moisture degradation. RSC Advances, 2015, 5, 82346-82350.	3.6	43
51	Metal-free graphitic carbon nitride as mechano-catalyst for hydrogen evolution reaction. Journal of Catalysis, 2015, 332, 149-155.	6.2	127
52	Porous P-doped graphitic carbon nitride nanosheets for synergistically enhanced visible-light photocatalytic H ₂ production. Energy and Environmental Science, 2015, 8, 3708-3717.	30.8	1,146
53	Carbon nanodot decorated graphitic carbon nitride: new insights into the enhanced photocatalytic water splitting from ab initio studies. Physical Chemistry Chemical Physics, 2015, 17, 31140-31144.	2.8	105