

Bin Gao

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42
papers

771
citations

15
h-index

27
g-index

45
ext. papers

1,098
ext. citations

7.9
avg, IF

4.24
L-index

#	Paper	IF	Citations
42	The synergistic effect of Ceria and Co in N-doped leaf-like carbon nanosheets derived from a 2D MOF and their enhanced performance in the oxygen reduction reaction. <i>Chemical Communications</i> , 2018 , 54, 1623-1626	5.8	75
41	N-Doped porous carbon nanosheets decorated with graphitized carbon layer encapsulated CoS nanoparticles: an efficient bifunctional electrocatalyst for the OER and ORR. <i>Nanoscale</i> , 2019 , 11, 901-907	7.7	65
40	Cross-Linked Polyphosphazene Hollow Nanosphere-Derived N/P-Doped Porous Carbon with Single Nonprecious Metal Atoms for the Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14639-14646	16.4	62
39	Preparation of the TiO/Graphitic Carbon Nitride Core-Shell Array as a Photoanode for Efficient Photoelectrochemical Water Splitting. <i>Langmuir</i> , 2016 , 32, 13322-13332	4	62
38	Layered double hydroxide modified WO ₃ nanorod arrays for enhanced photoelectrochemical water splitting. <i>Applied Catalysis A: General</i> , 2016 , 528, 52-58	5.1	62
37	Photo-enhanced lithium oxygen batteries with defective titanium oxide as both photo-anode and air electrode. <i>Energy Storage Materials</i> , 2018 , 13, 49-56	19.4	49
36	Cobalt-Doped Perovskite-Type Oxide LaMnO ₃ as Bifunctional Oxygen Catalysts for Hybrid Lithium-Oxygen Batteries. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 528-535	4.5	40
35	Synthesis of yellow mesoporous Ni-doped TiO ₂ with enhanced photoelectrochemical performance under visible light. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 898-906	6.8	36
34	Enhanced water oxidation reaction kinetics on a BiVO ₄ photoanode by surface modification with Ni ₄ O ₄ cubane. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 278-288	13	31
33	Selective Deposition of Ag ₃ PO ₄ on Specific Facet of BiVO ₄ Nanoplate for Enhanced Photoelectrochemical Performance. <i>Solar Rrl</i> , 2018 , 2, 1800102	7.1	30
32	Enhanced Li ₂ O ₂ Decomposition in Rechargeable LiO ₂ Battery by Incorporating WO ₃ Nanowire Array Photocatalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5931-5939	8.3	21
31	Synthesis of ordered mesoporous TiO ₂ -Carbon-CNTs nanocomposite and its efficient photoelectrocatalytic methanol oxidation performance. <i>Microporous and Mesoporous Materials</i> , 2017 , 240, 1-8	5.3	20
30	Fabrication of perovskite-based porous nanotubes as efficient bifunctional catalyst and application in hybrid lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 16943-16949	13	17
29	CoP nanoparticles encapsulated by graphitic layers and anchored to N-doped carbon nanoplates for enhanced bifunctional electrocatalytic properties for overall water splitting. <i>Carbon</i> , 2019 , 150, 446-454	10.4	15
28	Constructing Ordered Three-Dimensional TiO Channels for Enhanced Visible-Light Photocatalytic Performance in CO Conversion Induced by Au Nanoparticles. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 577-583	4.5	15
27	Cross-Linked Polyphosphazene Hollow Nanosphere-Derived N/P-Doped Porous Carbon with Single Nonprecious Metal Atoms for the Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 14747-14754	2.6	14
26	Electrocatalytic reduction of N ₂ and nitrogen-incorporation process on dopant-free defect graphene. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 55-61	13	14

25	Synthesis of Tungsten Trioxide/Hematite Core-Shell Nanoarrays for Efficient Photoelectrochemical Water Splitting. <i>ChemElectroChem</i> , 2019 , 6, 543-551	4.3	14
24	Introduction of photo electrochemical water-oxidation mechanism into hybrid lithium-oxygen batteries. <i>Energy Storage Materials</i> , 2020 , 31, 11-19	19.4	13
23	Layered double hydroxides decorated graphic carbon nitride film as efficient photoanodes for photoelectrochemical water splitting. <i>Catalysis Today</i> , 2019 , 335, 423-428	5.3	13
22	Regulating surface state of WO ₃ nanosheets by gamma irradiation for suppressing hydrogen evolution reaction in electrochemical N ₂ fixation. <i>Nano Research</i> , 2020 , 13, 2784-2790	10	12
21	All solid-state lithium-oxygen batteries with MOF-derived nickel cobaltate nanoflake arrays as high-performance oxygen cathodes. <i>Chemical Communications</i> , 2019 , 55, 10689-10692	5.8	11
20	Efficient separation of photoexcited carriers in a g-CN-decorated WO nanowire array heterojunction as the cathode of a rechargeable Li-O battery. <i>Nanoscale</i> , 2020 , 12, 18742-18749	7.7	10
19	In situ palladium/nitrogen-doped ordered mesoporous carbon hybrids as highly active and durable electrocatalysts for oxygen reduction reaction. <i>Journal of Porous Materials</i> , 2019 , 26, 371-379	2.4	8
18	Charge separation in hybrid metal-organic framework films for enhanced catalytic CO ₂ conversion. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2694-2699	13	7
17	Promoting hole transfer for photoelectrochemical water oxidation through a manganese cluster catalyst bioinspired by natural photosystem II. <i>Chemical Communications</i> , 2020 , 56, 4244-4247	5.8	6
16	High over-potential nitrogen-doped activated carbon towards hydrogen evolution inhibition in sulfuric acid solution. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 14170-14179	2.1	6
15	Boosting the stability and photoelectrochemical activity of a BiVO ₄ photoanode through a bifunctional polymer coating. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3309-3313	13	6
14	Structure stability of polyaniline/graphene nanocomposites in gamma-ray environment. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018 , 315, 627-638	1.5	5
13	Self-Assembled Urchin-Like CuWO ₄ /WO ₃ Heterojunction Nanoarrays as Photoanodes for Photoelectrochemical Water Splitting. <i>ChemElectroChem</i> , 2021 , 8, 125-134	4.3	5
12	In Situ Synthesis of Ultrathin Graphene-Like Nanosheets as a Highly Effective Oxygen Catalyst for Zinc-Air Batteries. <i>ChemElectroChem</i> , 2019 , 6, 4010-4015	4.3	4
11	Single atom site conjugated copper polyphthalocyanine assisted carbon nanotubes as cathode for reversible Li-CO ₂ batteries. <i>Nano Research</i> , 1	10	4
10	Aqueous Formate-Based Li-CO ₂ Battery with Low Charge Overpotential and High Working Voltage. <i>Advanced Energy Materials</i> , 2021 , 11, 2101630	21.8	4
9	Efficient photocathode performance of lithium ion doped LaFeO ₃ nanorod arrays in hydrogen evolution. <i>New Journal of Chemistry</i> , 2021 , 45, 3463-3468	3.6	4
8	Hydrogen bonded metal-organic supramolecule functionalized BiVO ₄ photoanode for enhanced water oxidation efficiency. <i>Chemical Engineering Journal</i> , 2021 , 422, 130092	14.7	4

7	N-Doped ordered porous carbon decorated with WN and Ni nanoparticles for enhanced electrocatalytic properties. <i>Journal of Porous Materials</i> , 2020 , 27, 719-726	2.4	2
6	Macrocyclic-Based Metal-Organic Frameworks with NO-Driven On/Off Switch of Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27066-27073	9.5	2
5	Solar-enhanced hybrid lithium-oxygen batteries with a low voltage and superior long-life stability. <i>Chemical Communications</i> , 2020 , 56, 13642-13645	5.8	1
4	Effect of Halogen-Doping on Properties of Bismuth Iodide (BiI ₃) Optical Absorption Layer. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000740	1.6	1
3	Hollow Mesoporous FeO Nanospindles/CNTs Composite: An Efficient Catalyst for High-Performance Li-O Batteries. <i>Frontiers in Chemistry</i> , 2019 , 7, 511	5	0
2	A nano-surface monocrystalline BiVO ₄ nanoplate photoanode for enhanced photoelectrochemical performance. <i>New Journal of Chemistry</i> , 2021 , 45, 7069-7073	3.6	0
1	Long-life reversible Li-CO ₂ batteries with optimized Li ₂ CO ₃ flakes as discharge products on palladium-copper nanoparticles. <i>Inorganic Chemistry Frontiers</i> , 2022 , 9, 1533-1540	6.8	0