

Guangjin Zhang

List of Publications by Citations

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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.

83
papers

3,458
citations

31
h-index

57
g-index

83
ext. papers

4,239
ext. citations

10
avg, IF

5.29
L-index

#	Paper	IF	Citations
83	WO ₃ nanorods/graphene nanocomposites for high-efficiency visible-light-driven photocatalysis and NO ₂ gas sensing. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8525		437
82	Atomic Co/Ni dual sites and Co/Ni alloy nanoparticles in N-doped porous Janus-like carbon frameworks for bifunctional oxygen electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019 , 240, 112-121	21.8	211
81	Facile synthesis of Au-nanoparticle/polyoxometalate/graphene tricomponent nano hybrids: an enzyme-free electrochemical biosensor for hydrogen peroxide. <i>Small</i> , 2012 , 8, 1398-406	11	199
80	Facile synthesis of single-nickel-atomic dispersed N-doped carbon framework for efficient electrochemical CO ₂ reduction. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 113-119	21.8	163
79	Bottom-up construction of triazine-based frameworks as metal-free electrocatalysts for oxygen reduction reaction. <i>Advanced Materials</i> , 2015 , 27, 3190-5	24	149
78	Polyoxometalate-Based Radiosensitization Platform for Treating Hypoxic Tumors by Attenuating Radioresistance and Enhancing Radiation Response. <i>ACS Nano</i> , 2017 , 11, 7164-7176	16.7	112
77	Enhanced proton and electron reservoir abilities of polyoxometalate grafted on graphene for high-performance hydrogen evolution. <i>Energy and Environmental Science</i> , 2016 , 9, 1012-1023	35.4	109
76	Heteroatom doped graphdiyne as efficient metal-free electrocatalyst for oxygen reduction reaction in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4738-4744	13	109
75	CdS nanorods/reduced graphene oxide nanocomposites for photocatalysis and electrochemical sensing. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5158	13	93
74	Molecular interactions between Wells-Dawson type polyoxometalates and human serum albumin. <i>Biomacromolecules</i> , 2008 , 9, 812-7	6.9	92
73	Tumor microenvironment-manipulated radiocatalytic sensitizer based on bismuth heteropolytungstate for radiotherapy enhancement. <i>Biomaterials</i> , 2019 , 189, 11-22	15.6	91
72	Green chemical decoration of multiwalled carbon nanotubes with polyoxometalate-encapsulated gold nanoparticles: visible light photocatalytic activities. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2282-2287		71
71	Facile synthesis of a Ag nanoparticle/polyoxometalate/carbon nanotube tri-component hybrid and its activity in the electrocatalysis of oxygen reduction. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14917		69
70	Controlled synthesis of CdS micro/nano leaves with (0001) facets exposed: enhanced photocatalytic activity toward hydrogen evolution. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23815		68
69	Polyoxometalate-mediated green synthesis of a 2D silver nanonet/graphene nano hybrid as a synergistic catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11961	13	65
68	A general green strategy for fabricating metal nanoparticles/polyoxometalate/graphene tri-component nano hybrids: enhanced electrocatalytic properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3319		64
67	Cobalt Single Atoms Immobilized N-Doped Carbon Nanotubes for Enhanced Bifunctional Catalysis toward Oxygen Reduction and Oxygen Evolution Reactions. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3283-3291	6.1	64

66	Gadolinium polytungstate nanoclusters: a new theranostic with ultrasmall size and versatile properties for dual-modal MR/CT imaging and photothermal therapy/radiotherapy of cancer. <i>NPG Asia Materials</i> , 2016 , 8, e273-e273	10.3	63
65	Polyoxometalate-assisted formation of CoSe/MoSe ₂ heterostructures with enhanced oxygen evolution activity. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3317-3326	13	61
64	ZnO@ZnS hollow dumbbells/graphene composites as high-performance photocatalysts and alcohol sensors. <i>New Journal of Chemistry</i> , 2012 , 36, 2593	3.6	60
63	Self-assembly of CdS quantum dots with polyoxometalate encapsulated gold nanoparticles: enhanced photocatalytic activities. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1488-1494	13	54
62	Facile synthesis of a bismuth nanostructure with enhanced selectivity for electrochemical conversion of CO to formate. <i>Nanoscale</i> , 2019 , 11, 7805-7812	7.7	49
61	Cu ₂ ZnSnS ₄ /Ag ₂ S Nanoscale p-n Heterostructures as Sensitizers for Photoelectrochemical Water Splitting. <i>Langmuir</i> , 2015 , 31, 10555-61	4	48
60	Molecular Interaction between a Gadolinium Polyoxometalate and Human Serum Albumin. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 5189-5193	2.3	45
59	Design and optical investigations of a spironaphthoxazine/polyoxometalate/spiropyran triad. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4748-4758	7.1	38
58	Atomically Dispersed Indium Sites for Selective CO Electroreduction to Formic Acid. <i>ACS Nano</i> , 2021 , 15, 5671-5678	16.7	38
57	Manganese Vanadium Oxide-N-Doped Reduced Graphene Oxide Composites as Oxygen Reduction and Oxygen Evolution Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44511-44517	9.5	37
56	Multinuclear cobalt(II)-containing heteropolytungstates: structure, magnetism, and electrochemistry. <i>Inorganic Chemistry</i> , 2014 , 53, 5179-88	5.1	35
55	Controlled synthesis of double-shelled CeO ₂ hollow spheres and enzyme-free electrochemical bio-sensing properties for uric acid. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17079		34
54	High Oxygen Reduction Reaction Performances of Cathode Materials Combining Polyoxometalates, Coordination Complexes, and Carbonaceous Supports. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38486-38498	9.5	33
53	Unveiling Electrochemical Urea Synthesis by Co-Activation of CO and N with Mott-Schottky Heterostructure Catalysts. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10910-10918	16.4	33
52	Polyoxometalate-Assisted Galvanic Replacement Synthesis of Silver Hierarchical Dendritic Structures. <i>Crystal Growth and Design</i> , 2011 , 11, 3424-3431	3.5	31
51	Electrochemical-reduction-assisted assembly of ternary Ag nanoparticles/polyoxometalate/graphene nanohybrids and their activity in the electrocatalysis of oxygen reduction. <i>RSC Advances</i> , 2015 , 5, 74447-74456	3.7	30
50	Tuning carbon nanotube-grafted core-shell-structured cobalt selenide@carbon hybrids for efficient oxygen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2019 , 533, 503-512	9.3	30
49	Pd ₀ @Polyoxometalate Nanostructures as Green Electrocatalysts: Illustrative Example of Hydrogen Production. <i>Materials</i> , 2010 , 3, 741-754	3.5	29

48	Electrochemical C-N coupling with perovskite hybrids toward efficient urea synthesis. <i>Chemical Science</i> , 2021 , 12, 6048-6058	9.4	29
47	Synthesis of polyoxometalates derived bifunctional catalyst towards efficient overall water splitting in neutral and alkaline medium. <i>Journal of Colloid and Interface Science</i> , 2018 , 532, 774-781	9.3	26
46	Engineering Surface Atomic Architecture of NiTe Nanocrystals Toward Efficient Electrochemical N ₂ Fixation. <i>Advanced Functional Materials</i> , 2020 , 30, 2004208	15.6	26
45	Polyoxometalate-Mediated Green Synthesis of Graphene and Metal Nanohybrids: High-Performance Electrocatalysts. <i>Journal of Cluster Science</i> , 2014 , 25, 711-740	3	24
44	A flavone-based turn-on fluorescent probe for intracellular cysteine/homocysteine sensing with high selectivity. <i>Talanta</i> , 2016 , 146, 41-8	6.2	23
43	Sequential Synthesis of 3 d-3 d, 3 d-4 d, and 3 d-5 d Hybrid Polyoxometalates and Application to the Electrocatalytic Oxygen Reduction Reactions. <i>Chemistry - A European Journal</i> , 2015 , 21, 12153-60	4.8	23
42	Support effect boosting the electrocatalytic N ₂ reduction activity of Ni ₂ P/N,P-codoped carbon nanosheet hybrids. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2691-2700	13	23
41	Br/Co/N Co-doped porous carbon frameworks with enriched defects for high-performance electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10865-10874	13	22
40	Mixed-Valent Mn ¹⁶ -Containing Heteropolyanions: Tuning of Oxidation State and Associated Physicochemical Properties. <i>Inorganic Chemistry</i> , 2016 , 55, 2755-64	5.1	22
39	An overall water-splitting polyoxometalate catalyst for the electromicrobial conversion of CO ₂ in neutral water. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9915-9921	13	21
38	Emerging investigator series: dispersed transition metals on a nitrogen-doped carbon nanoframework for environmental hydrogen peroxide detection. <i>Environmental Science: Nano</i> , 2018 , 5, 1834-1843	7.1	19
37	Metal-Free Photochemical Degradation of Lignin-Derived Aryl Ethers and Lignin by Autologous Radicals through Ionic Liquid Induction. <i>ChemSusChem</i> , 2019 , 12, 4005-4013	8.3	17
36	Highly selective electroreduction of N ₂ and CO ₂ to urea over artificial frustrated Lewis pairs. <i>Energy and Environmental Science</i> , 2021 , 14, 6605-6615	35.4	16
35	Boron Doped ZIF-67@Graphene Derived Carbon Electrocatalyst for Highly Efficient Enzyme-Free Hydrogen Peroxide Biosensor. <i>Advanced Materials Technologies</i> , 2017 , 2, 1700224	6.8	15
34	Artificial frustrated Lewis pairs facilitating the electrochemical N ₂ and CO ₂ conversion to urea. <i>Chem Catalysis</i> , 2022 , 2, 309-320		14
33	Cu ₂ ZnSnS ₄ Nanocrystals as Highly Active and Stable Electrocatalysts for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24265-24270	3.8	13
32	15-Copper(ii)-containing 36-tungsto-4-silicates(iv) [CuO(OH)X(A-BiWO)] (X = Cl, Br): synthesis, structure, magnetic properties, and electrocatalytic CO reduction. <i>Dalton Transactions</i> , 2018 , 47, 12439-12448	4.3	13
31	Top-down synthesis of polyoxometalate-like sub-nanometer molybdenum-oxo clusters as high-performance electrocatalysts. <i>Chemical Science</i> , 2019 , 11, 1043-1051	9.4	13

30	Polyoxometalate-CdS quantum dots co-sensitized TiO ₂ nanorods array: enhanced charge separation and light to electricity conversion efficiency. <i>RSC Advances</i> , 2013 , 3, 8351	3.7	12
29	Work function regulation of nitrogen-doped carbon nanotubes triggered by metal nanoparticles for efficient electrocatalytic nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 26066-26074	13	12
28	Simple and efficient polyoxomolybdate-mediated synthesis of novel graphene and metal nanohybrids for versatile applications. <i>Journal of Colloid and Interface Science</i> , 2018 , 514, 507-516	9.3	11
27	Photocatalytic Reduction Synthesis of Ternary Ag Nanoparticles/Polyoxometalate/Graphene Nanohybrids and Its Activity in the Electrocatalysis of Oxygen Reduction. <i>Journal of Cluster Science</i> , 2016 , 27, 241-256	3	11
26	Artificial photosynthesis for solar hydrogen generation over transition-metal substituted Keggin-type titanium tungstate. <i>New Journal of Chemistry</i> , 2014 , 38, 1315-1320	3.6	11
25	Ti ₂ -Containing 18-Tungsto-2-Arsenate(III) Monolacunary Host and the Incorporation of a Phenylantimony(III) Guest. <i>Inorganic Chemistry</i> , 2015 , 54, 10530-2	5.1	10
24	First Examples of Hybrids Based on Graphene and a Ring-Shaped Macrocyclic Polyoxometalate: Synthesis, Characterization, and Properties. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 1882-1889	2.3	10
23	A Colorimetric Fluorescent Probe for SO ₂ Derivatives-Bisulfite and Sulfite at Nanomolar Level. <i>Journal of Fluorescence</i> , 2017 , 27, 1767-1775	2.4	9
22	Bottom-up Design of Bimetallic Cobalt-Molybdenum Carbides/Oxides for Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2019 , 26, 4157	4.8	9
21	Efficient Tetra-Functional Electrocatalyst with Synergetic Effect of Different Active Sites for Multi-Model Energy Conversion and Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23017-23027	8.5	8
20	Cr-Doped Pd Metallene Endows a Practical Formaldehyde Sensor New Limit and High Selectivity. <i>Advanced Materials</i> , 2021 , e2105276	24	8
19	Nitrogen-rich core-shell structured particles consisting of carbonized zeolitic imidazolate frameworks and reduced graphene oxide for amperometric determination of hydrogen peroxide. <i>Mikrochimica Acta</i> , 2018 , 185, 501	5.8	8
18	Host-Guest Molecular Interaction Promoted Urea Electrosynthesis over Precisely Designed Conductive Metal-Organic Frameworks. <i>Energy and Environmental Science</i> ,	35.4	8
17	Iron/nickel nano-alloy encapsulated in nitrogen-doped carbon framework for CO ₂ electrochemical conversion with prominent CO selectivity. <i>Journal of Power Sources</i> , 2020 , 449, 227496	8.9	6
16	Iron and Iodine Co-doped Triazine-Based Frameworks with Efficient Oxygen Reduction Reaction in Alkaline and Acidic Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11787-11794	8.3	5
15	CoNi nano-alloy anchored on biomass-derived N-doped carbon frameworks for enhanced oxygen reduction and evolution reactions. <i>Electrochimica Acta</i> , 2022 , 402, 139555	6.7	5
14	Polyoxometalate-like sub-nanometer molybdenum(vi)-oxo clusters for sensitive, selective and stable HO sensing. <i>Chemical Communications</i> , 2020 , 56, 9465-9468	5.8	5
13	Unveiling Electrochemical Urea Synthesis by Co-Activation of CO ₂ and N ₂ with Mott-Schottky Heterostructure Catalysts. <i>Angewandte Chemie</i> , 2021 , 133, 11005-11013	3.6	5

12	Cu-incorporated PtBi intermetallic nanofiber bundles enhance alcohol oxidation electrocatalysis with high CO tolerance. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20676-20684	13	5
11	Biosensors: Boron Doped ZIF-67@Graphene Derived Carbon Electrocatalyst for Highly Efficient Enzyme-Free Hydrogen Peroxide Biosensor (Adv. Mater. Technol. 12/2017). <i>Advanced Materials Technologies</i> , 2017 , 2, 1770058	6.8	4
10	Electrocatalysts: Bottom-Up Construction of Triazine-Based Frameworks as Metal-Free Electrocatalysts for Oxygen Reduction Reaction (Adv. Mater. 20/2015). <i>Advanced Materials</i> , 2015 , 27, 3189-3189	24	4
9	Boosting oxygen evolution reactivity by modulating electronic structure and honeycomb-like architecture in Ni ₂ P/N,P-codoped carbon hybrids. <i>Green Energy and Environment</i> , 2020 ,	5.7	4
8	Boosted polysulfides regulation by iron carbide nanoparticles-embedded porous biomass-derived carbon toward superior lithium-sulfur batteries. <i>Journal of Colloid and Interface Science</i> , 2022 , 605, 129-137	9.3	4
7	Synthesis, structure, electrochemistry and magnetism of cobalt-, nickel- and zinc-containing [M(OH)(HO)(SiWO)] (M = Co, Ni, and Zn). <i>Dalton Transactions</i> , 2021 , 50, 3923-3930	4.3	3
6	Local charge rearrangement to boost the chemical adsorption and catalytic conversion of polysulfides for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7566-7574	13	3
5	Trimetallic synergy in dendritic intermetallic PtSnBi nanoalloys for promoting electrocatalytic alcohol oxidation. <i>Journal of Colloid and Interface Science</i> , 2021 , 602, 504-512	9.3	3
4	CoOx/UiO-66 and NiO/UiO-66 heterostructures with UiO-66 frameworks for enhanced oxygen evolution reactions. <i>New Journal of Chemistry</i> , 2021 , 45, 14822-14830	3.6	2
3	InOOH as an efficient bidirectional catalyst for accelerated polysulfides conversion to enable high-performance lithium-sulfur batteries.. <i>Journal of Colloid and Interface Science</i> , 2021 , 610, 418-426	9.3	0
2	Controlled Synthesis of Silver Micro/Nano Leaves for Oxygen Reduction and CO ₂ Reduction. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 5763-5769	1.3	
1	Surface Atomic Architecture: Engineering Surface Atomic Architecture of NiTe Nanocrystals Toward Efficient Electrochemical N ₂ Fixation (Adv. Funct. Mater. 39/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070263	15.6	