

Guangjin Zhang

List of Publications by Year in Descending Order

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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	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
82	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
81	Artificial frustrated Lewis pairs facilitating the electrochemical N ₂ and CO ₂ conversion to urea. <i>Chem Catalysis</i> , 2022 , 2, 309-320		14
80	Cr-Doped Pd Metallene Endows a Practical Formaldehyde Sensor New Limit and High Selectivity. <i>Advanced Materials</i> , 2021 , e2105276	24	8
79	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
78	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
77	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
76	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
75	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
74	Electrochemical C-N coupling with perovskite hybrids toward efficient urea synthesis. <i>Chemical Science</i> , 2021 , 12, 6048-6058	9.4	29
73	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
72	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
71	Atomically Dispersed Indium Sites for Selective CO Electroreduction to Formic Acid. <i>ACS Nano</i> , 2021 , 15, 5671-5678	16.7	38
70	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
69	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
68	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
67	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	27	8

66	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
65	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
64	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	
63	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
62	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
61	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
60	Engineering Surface Atomic Architecture of NiTe Nanocrystals Toward Efficient Electrochemical N ₂ Fixation. <i>Advanced Functional Materials</i> , 2020 , 30, 2004208	15.6	26
59	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
58	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
57	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
56	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
55	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
54	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
53	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
52	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
51	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
50	Tumor microenvironment-manipulated radiocatalytic sensitizer based on bismuth heteropolytungstate for radiotherapy enhancement. <i>Biomaterials</i> , 2019 , 189, 11-22	15.6	91
49	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

- 48 15-Copper(ii)-containing 36-tungsto-4-silicates(iv) [CuO(OH)X(A-HiWO)] (X = Cl, Br): synthesis, structure, magnetic properties, and electrocatalytic CO reduction. *Dalton Transactions*, **2018**, 47, 12439-12448 ¹³
- 47 Emerging investigator series: dispersed transition metals on a nitrogen-doped carbon nanoframework for environmental hydrogen peroxide detection. *Environmental Science: Nano*, **2018**, 5, 1834-1843 7.1 19
- 46 Synthesis of polyoxometalates derived bifunctional catalyst towards efficient overall water splitting in neutral and alkaline medium. *Journal of Colloid and Interface Science*, **2018**, 532, 774-781 9.3 26
- 45 Controlled Synthesis of Silver Micro/Nano Leaves for Oxygen Reduction and CO₂ Reduction. *Journal of Nanoscience and Nanotechnology*, **2018**, 18, 5763-5769 1.3
- 44 Manganese Vanadium Oxide-N-Doped Reduced Graphene Oxide Composites as Oxygen Reduction and Oxygen Evolution Electrocatalysts. *ACS Applied Materials & Interfaces*, **2018**, 10, 44511-44517 9.5 37
- 43 Nitrogen-rich core-shell structured particles consisting of carbonized zeolitic imidazolate frameworks and reduced graphene oxide for amperometric determination of hydrogen peroxide. *Mikrochimica Acta*, **2018**, 185, 501 5.8 8
- 42 An overall water-splitting polyoxometalate catalyst for the electromicrobial conversion of CO₂ in neutral water. *Journal of Materials Chemistry A*, **2018**, 6, 9915-9921 13 21
- 41 Cobalt Single Atoms Immobilized N-Doped Carbon Nanotubes for Enhanced Bifunctional Catalysis toward Oxygen Reduction and Oxygen Evolution Reactions. *ACS Applied Energy Materials*, **2018**, 1, 3283-3291 ^{6.1} 64
- 40 A Colorimetric Fluorescent Probe for SO₂ Derivatives-Bisulfite and Sulfite at Nanomolar Level. *Journal of Fluorescence*, **2017**, 27, 1767-1775 2.4 9
- 39 Polyoxometalate-Based Radiosensitization Platform for Treating Hypoxic Tumors by Attenuating Radioresistance and Enhancing Radiation Response. *ACS Nano*, **2017**, 11, 7164-7176 16.7 112
- 38 High Oxygen Reduction Reaction Performances of Cathode Materials Combining Polyoxometalates, Coordination Complexes, and Carbonaceous Supports. *ACS Applied Materials & Interfaces*, **2017**, 9, 38486-38498 9.5 33
- 37 Boron Doped ZIF-67@Graphene Derived Carbon Electrocatalyst for Highly Efficient Enzyme-Free Hydrogen Peroxide Biosensor. *Advanced Materials Technologies*, **2017**, 2, 1700224 6.8 15
- 36 Biosensors: Boron Doped ZIF-67@Graphene Derived Carbon Electrocatalyst for Highly Efficient Enzyme-Free Hydrogen Peroxide Biosensor (Adv. Mater. Technol. 12/2017). *Advanced Materials Technologies*, **2017**, 2, 1770058 6.8 4
- 35 A flavone-based turn-on fluorescent probe for intracellular cysteine/homocysteine sensing with high selectivity. *Talanta*, **2016**, 146, 41-8 6.2 23
- 34 Cu₂ZnSnS₄ Nanocrystals as Highly Active and Stable Electrocatalysts for the Oxygen Reduction Reaction. *Journal of Physical Chemistry C*, **2016**, 120, 24265-24270 3.8 13
- 33 Gadolinium polytungstate nanoclusters: a new theranostic with ultrasmall size and versatile properties for dual-modal MR/CT imaging and photothermal therapy/radiotherapy of cancer. *NPG Asia Materials*, **2016**, 8, e273-e273 10.3 63
- 32 Enhanced proton and electron reservoir abilities of polyoxometalate grafted on graphene for high-performance hydrogen evolution. *Energy and Environmental Science*, **2016**, 9, 1012-1023 35.4 109
- 31 Heteroatom doped graphdiyne as efficient metal-free electrocatalyst for oxygen reduction reaction in alkaline medium. *Journal of Materials Chemistry A*, **2016**, 4, 4738-4744 13 109

30	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
29	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
28	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
27	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
26	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
25	Cu ²⁺ /nSnS ₅ /Ag ⁺ Nanoscale p-n Heterostructures as Sensitizers for Photoelectrochemical Water Splitting. <i>Langmuir</i> , 2015 , 31, 10555-61	4	48
24	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
23	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
22	Polyoxometalate-Mediated Green Synthesis of Graphene and Metal Nanohybrids: High-Performance Electrocatalysts. <i>Journal of Cluster Science</i> , 2014 , 25, 711-740	3	24
21	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
20	Design and optical investigations of a spironaphthoxazine/polyoxometalate/spiropyran triad. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4748-4758	7.1	38
19	Multinuclear cobalt(II)-containing heteropolytungstates: structure, magnetism, and electrochemistry. <i>Inorganic Chemistry</i> , 2014 , 53, 5179-88	5.1	35
18	Polyoxometalate-mediated green synthesis of a 2D silver nanonet/graphene nanohybrid as a synergistic catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 11961	13	65
17	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
16	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
15	CdS nanorods/reduced graphene oxide nanocomposites for photocatalysis and electrochemical sensing. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5158	13	93
14	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
13	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

12	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
11	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
10	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
9	A general green strategy for fabricating metal nanoparticles/polyoxometalate/graphene tri-component nanohybrids: enhanced electrocatalytic properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3319		64
8	Facile synthesis of Au-nanoparticle/polyoxometalate/graphene tricomponent nanohybrids: an enzyme-free electrochemical biosensor for hydrogen peroxide. <i>Small</i> , 2012 , 8, 1398-406	11	199
7	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
6	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
5	Polyoxometalate-Assisted Galvanic Replacement Synthesis of Silver Hierarchical Dendritic Structures. <i>Crystal Growth and Design</i> , 2011 , 11, 3424-3431	3.5	31
4	Pd ⁰ @Polyoxometalate Nanostructures as Green Electrocatalysts: Illustrative Example of Hydrogen Production. <i>Materials</i> , 2010 , 3, 741-754	3.5	29
3	Molecular Interaction between a Gadolinium Polyoxometalate and Human Serum Albumin. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 5189-5193	2.3	45
2	Molecular interactions between Wells-Dawson type polyoxometalates and human serum albumin. <i>Biomacromolecules</i> , 2008 , 9, 812-7	6.9	92
1	Host-Guest Molecular Interaction Promoted Urea Electrosynthesis over Precisely Designed Conductive Metal-Organic Frameworks. <i>Energy and Environmental Science</i> ,	35.4	8