Rongji Liu

List of Publications by Year
in descending order

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Version: 2024-02-01

64 papers	3,650 citations	126907 33 h-index	133252 59 g-index
64 all docs	64 docs citations	64 times ranked	4829 citing authors

#	Article	IF	Citations
1	Atomic Co/Ni dual sites and Co/Ni alloy nanoparticles in N-doped porous Janus-like carbon frameworks for bifunctional oxygen electrocatalysis. Applied Catalysis B: Environmental, 2019, 240, 112-121.	20.2	334
2	Nitrogen-doped graphdiyne as a metal-free catalyst for high-performance oxygen reduction reactions. Nanoscale, 2014, 6, 11336-11343.	5.6	229
3	Facile Synthesis of Auâ€Nanoparticle/Polyoxometalate/Graphene Tricomponent Nanohybrids: An Enzymeâ€Free Electrochemical Biosensor for Hydrogen Peroxide. Small, 2012, 8, 1398-1406.	10.0	228
4	Modular Design of Nobleâ€Metalâ€Free Mixed Metal Oxide Electrocatalysts for Complete Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 4644-4648.	13.8	182
5	Bottomâ€Up Construction of Triazineâ€Based Frameworks as Metalâ€Free Electrocatalysts for Oxygen Reduction Reaction. Advanced Materials, 2015, 27, 3190-3195.	21.0	167
6	Heteroatom doped graphdiyne as efficient metal-free electrocatalyst for oxygen reduction reaction in alkaline medium. Journal of Materials Chemistry A, 2016, 4, 4738-4744.	10.3	139
7	Enhanced proton and electron reservoir abilities of polyoxometalate grafted on graphene for high-performance hydrogen evolution. Energy and Environmental Science, 2016, 9, 1012-1023.	30.8	138
8	Highly selective electroreduction of N₂ and CO₂ to urea over artificial frustrated Lewis pairs. Energy and Environmental Science, 2021, 14, 6605-6615.	30.8	130
9	Polyoxometalates on Functional Substrates: Concepts, Synergies, and Future Perspectives. Advanced Science, 2020, 7, 1903511.	11.2	129
10	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.	5.1	90
11	Artificial frustrated Lewis pairs facilitating the electrochemical N2 and CO2 conversion to urea. Chem Catalysis, 2022, 2, 309-320.	6.1	89
12	Surface-phase junctions of branched TiO2 nanorod arrays for efficient photoelectrochemical water splitting. Applied Catalysis B: Environmental, 2014, 158-159, 296-300.	20.2	86
13	Controlled synthesis of CdS micro/nano leaves with (0001) facets exposed: enhanced photocatalytic activity toward hydrogen evolution. Journal of Materials Chemistry, 2012, 22, 23815.	6.7	83
14	Facile synthesis of a Ag nanoparticle/polyoxometalate/carbon nanotube tri-component hybrid and its activity in the electrocatalysis of oxygen reduction. Journal of Materials Chemistry, 2011, 21, 14917.	6.7	78
15	Bimetallic manganese-vanadium functionalized N,S-doped carbon nanotubes as efficient oxygen evolution and oxygen reduction electrocatalysts. Applied Catalysis B: Environmental, 2020, 277, 119195.	20.2	76
16	Polyoxometalate-mediated green synthesis of a 2D silver nanonet/graphene nanohybrid as a synergistic catalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2013, 1, 11961.	10.3	75
17	Photochemical and electrochemical hydrogen evolution reactivity of lanthanide-functionalized polyoxotungstates. Chemical Communications, 2018, 54, 10427-10430.	4.1	75
18	A general green strategy for fabricating metal nanoparticles/polyoxometalate/graphene tri-component nanohybrids: enhanced electrocatalytic properties. Journal of Materials Chemistry, 2012, 22, 3319.	6.7	73

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19	Hostâ€“guest molecular interaction promoted urea electrosynthesis over a precisely designed conductive metalâ€“organic framework. Energy and Environmental Science, 2022, 15, 2084-2095.	30.8	73
20	Self-assembly of CdS quantum dots with polyoxometalate encapsulated gold nanoparticles: enhanced photocatalytic activities. Journal of Materials Chemistry A, 2013, 1, 1488-1494.	10.3	64
21	Manganese Vanadium Oxideâ€“N-Doped Reduced Graphene Oxide Composites as Oxygen Reduction and Oxygen Evolution Electrocatalysts. ACS Applied Materials & Interfaces, 2018, 10, 44511-44517.	8.0	62
22	Carbon quantum dots as novel sensitizers for photoelectrochemical solar hydrogen generation and their size-dependent effect. Nanotechnology, 2013, 24, 335401.	2.6	58
23	Polyoxometalateâ€Single Atom Catalysts (POMâ€SACs) in Energy Research and Catalysis. Advanced Energy Materials, 2021, 11, 2101120.	19.5	57
24	High Protonâ€Conductivity in Covalently Linked Polyoxometalateâ€Organoboronic Acidâ€Polymers. Angewandte Chemie - International Edition, 2021, 60, 16953-16957.	13.8	50
25	High Oxygen Reduction Reaction Performances of Cathode Materials Combining Polyoxometalates, Coordination Complexes, and Carboneous Supports. ACS Applied Materials & Interfaces, 2017, 9, 38486-38498.	8.0	48
26	Îµ-Keggin-based coordination networks: Synthesis, structure and application toward green synthesis of polyoxometalate@graphene hybrids. Dalton Transactions, 2012, 41, 9989.	3.3	47
27	Br/Co/N Co-doped porous carbon frameworks with enriched defects for high-performance electrocatalysis. Journal of Materials Chemistry A, 2020, 8, 10865-10874.	10.3	47
28	Multinuclear Cobalt(II)-Containing Heteropolytungstates: Structure, Magnetism, and Electrochemistry. Inorganic Chemistry, 2014, 53, 5179-5188.	4.0	42
29	Design and optical investigations of a spironaphthoxazine/polyoxometalate/spiropyran triad. Journal of Materials Chemistry C, 2014, 2, 4748-4758.	5.5	41
30	Controlled synthesis of double-shelled CeO2 hollow spheres and enzyme-free electrochemical bio-sensing properties for uric acid. Journal of Materials Chemistry, 2012, 22, 17079.	6.7	38
31	Electrochemical-reduction-assisted assembly of ternary Ag nanoparticles/polyoxometalate/graphene nanohybrids and their activity in the electrocatalysis of oxygen reduction. RSC Advances, 2015, 5, 74447-74456.	3.6	38
32	Cobalt Nanoparticles and Atomic Sites in Nitrogenâ€Doped Carbon Frameworks for Highly Sensitive Sensing of Hydrogen Peroxide. Small, 2020, 16, e1902860.	10.0	38
33	Polyoxometalate-Assisted Galvanic Replacement Synthesis of Silver Hierarchical Dendritic Structures. Crystal Growth and Design, 2011, 11, 3424-3431.	3.0	34
34	Bottomâ€up Design of Bimetallic Cobaltâ€“Molybdenum Carbides/Oxides for Overall Water Splitting. Chemistry - A European Journal, 2020, 26, 4157-4164.	3.3	33
35	A flavone-based turn-on fluorescent probe for intracellular cysteine/homocysteine sensing with high selectivity. Talanta, 2016, 146, 41-48.	5.5	29
36	Polyoxometalate-Mediated Green Synthesis of Graphene and Metal Nanohybrids: High-Performance Electrocatalysts. Journal of Cluster Science, 2014, 25, 711-740.	3.3	28

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37	Transitionâ€Metal Oxides/Carbides@Carbon Nanotube Composites as Multifunctional Electrocatalysts for Challenging Oxidations and Reductions. Chemistry - A European Journal, 2019, 25, 11098-11104.	3.3	28
38	Grapheneâ€“CdS quantum dotsâ€“polyoxometalate composite films for efficient photoelectrochemical water splitting and pollutant degradation. Physical Chemistry Chemical Physics, 2014, 16, 26016-26023.	2.8	27
39	An overall water-splitting polyoxometalate catalyst for the electromicrobial conversion of CO₂ in neutral water. Journal of Materials Chemistry A, 2018, 6, 9915-9921.	10.3	27
40	Sequential Synthesis of 3â€‰dâ€“3â€‰d, 3â€‰dâ€“4â€‰d, and 3â€‰dâ€“5â€‰d Hybrid Polyoxometalates and Application to the Electrocatalytic Oxygen Reduction Reactions. Chemistry - A European Journal, 2015, 21, 12153-12160.	3.3	26
41	Mixed-Valent Mn16-Containing Heteropolyanions: Tuning of Oxidation State and Associated Physicochemical Properties. Inorganic Chemistry, 2016, 55, 2755-2764.	4.0	25
42	Self-Activation of a Polyoxometalate-Derived Composite Electrocatalyst for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2021, 4, 12671-12676.	5.1	25
43	Boron Doped ZIFâ€67@Graphene Derived Carbon Electrocatalyst for Highly Efficient Enzymeâ€Free Hydrogen Peroxide Biosensor. Advanced Materials Technologies, 2017, 2, 1700224.	5.8	22
44	Modular development of metal oxide/carbon composites for electrochemical energy conversion and storage. Journal of Materials Chemistry A, 2019, 7, 13096-13102.	10.3	22
45	Top-down synthesis of polyoxometalate-like sub-nanometer molybdenum-oxo clusters as high-performance electrocatalysts. Chemical Science, 2020, 11, 1043-1051.	7.4	21
46	High nuclearity Co polyoxometalate based artificial photosynthesis for solar hydrogen generation. International Journal of Hydrogen Energy, 2013, 38, 9954-9960.	7.1	20
47	Modular Design of Nobleâ€Metalâ€Free Mixed Metal Oxide Electrocatalysts for Complete Water Splitting. Angewandte Chemie, 2019, 131, 4692-4696.	2.0	19
48	Artificial photosynthesis for solar hydrogen generation over transition-metal substituted Keggin-type titanium tungstate. New Journal of Chemistry, 2014, 38, 1315-1320.	2.8	17
49	Highly efficient electrochemically driven water oxidation by graphene-supported mixed-valent Mn16-containing polyoxometalate. Green Energy and Environment, 2016, 1, 138-143.	8.7	17
50	Solvatochromic Fluorescence Emission of an Anthranol Derivative without Typical Donorâ€“Acceptor Structure: An Experimental and Theoretical Study. Journal of Physical Chemistry C, 2015, 119, 2761-2769.	3.1	15
51	Polyoxometalateâ€“CdS quantum dots co-sensitized TiO2 nanorods array: enhanced charge separation and light to electricity conversion efficiency. RSC Advances, 2013, 3, 8351.	3.6	14
52	Simple and efficient polyoxomolybdate-mediated synthesis of novel graphene and metal nanohybrids for versatile applications. Journal of Colloid and Interface Science, 2018, 514, 507-516.	9.4	14
53	Electrocatalytic Oxygen Evolution by Hierarchically Structured Cobaltâ€“Iron Composites. ACS Applied Materials & Interfaces, 2021, 13, 19048-19054.	8.0	13
54	First Examples of Hybrids Based on Graphene and a Ringâ€Shaped Macrocyclic Polyoxometalate: Synthesis, Characterization, and Properties. European Journal of Inorganic Chemistry, 2013, 2013, 1882-1889.	2.0	12

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55	Photocatalytic Reduction Synthesis of Ternary Ag Nanoparticles/Polyoxometalate/Graphene Nanohybrids and Its Activity in the Electrocatalysis of Oxygen Reduction. Journal of Cluster Science, 2016, 27, 241-256.	3.3	12
56	Efficient Tetra-Functional Electrocatalyst with Synergetic Effect of Different Active Sites for Multi-Model Energy Conversion and Storage. ACS Applied Materials & Interfaces, 2020, 12, 23017-23027.	8.0	12
57	Polyoxometalate-like sub-nanometer molybdenum(<scp>vi</scp>)-oxo clusters for sensitive, selective and stable H₂O₂ sensing. Chemical Communications, 2020, 56, 9465-9468.	4.1	8
58	A 3d-printed composite electrode for sustained electrocatalytic oxygen evolution. Chemical Communications, 2020, 56, 8476-8479.	4.1	7
59	Electrocatalysts: Bottomâ€Up Construction of Triazineâ€Based Frameworks as Metalâ€Free Electrocatalysts for Oxygen Reduction Reaction (Adv. Mater. 20/2015). Advanced Materials, 2015, 27, 3189-3189.	21.0	6
60	High Protonâ€Conductivity in Covalently Linked Polyoxometalateâ€Organoboronic Acidâ€Polymers. Angewandte Chemie, 2021, 133, 17090-17094.	2.0	5
61	Biosensors: Boron Doped ZIFâ€67@Graphene Derived Carbon Electrocatalyst for Highly Efficient Enzymeâ€Free Hydrogen Peroxide Biosensor (Adv. Mater. Technol. 12/2017). Advanced Materials Technologies, 2017, 2, 1770058.	5.8	4
62	Bulk Nanostructuring of Janusâ€Type Metal Electrodes. Chemistry - A European Journal, 2020, 26, 11109-11112.	3.3	4
63	Controlled Synthesis of Silver Micro/Nano Leaves for Oxygen Reduction and CO2 Reduction. Journal of Nanoscience and Nanotechnology, 2018, 18, 5763-5769.	0.9	0
64	Molecular Iron Oxide Clusters Boost the Oxygen Reduction Reaction of Platinum Electrocatalysts at Nearâ€Neutral pH. Angewandte Chemie, 0, , .	2.0	0