

Zhenyu Xiao

List of Publications by Year in descending order

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62
papers

2,636
citations

172207

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189595

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docs citations

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times ranked

3293
citing authors

#	ARTICLE	IF	CITATIONS
1	1D/3D Heterogeneous Assembling Body as Trifunctional Electrocatalysts Enabling Zinc-Air Battery and Self-Powered Overall Water Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	88
2	Chemically coupled 0D-3D hetero-structure of Co ₉ S ₈ -Ni ₃ S ₄ hollow spheres for Zn-based supercapacitors. <i>Chemical Engineering Journal</i> , 2022, 430, 132836.	6.6	23
3	Anionic organo-hydrogel electrolyte with enhanced ionic conductivity and balanced mechanical properties for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2022, 10, 11277-11287.	5.2	33
4	“One-for-two” strategy: The construction of high performance positive and negative electrode materials via one Co-based metal organic framework precursor for boosted hybrid supercapacitor energy density. <i>Journal of Power Sources</i> , 2022, 541, 231689.	4.0	16
5	Formation of V ₆ O ₁₁ @Ni(OH) ₂ /NiOOH hollow double-shell nanoflowers for the excellent cycle stability of supercapacitors. <i>Dalton Transactions</i> , 2021, 50, 3693-3700.	1.6	15
6	Step-by-step etching strategy to construct multiple-shell amorphous Co/Ni-(PO ₄) _x (OH) _y hollow polyhedron for supercapacitor application. <i>Journal of Solid State Chemistry</i> , 2021, 304, 122618.	1.4	6
7	In Situ Construction of a Heterostructured Zn-Mo-Ni-S Hollow Microflower for High-Performance Hybrid Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 801-809.	2.5	9
8	Bucket Effect: A Metal-Organic Framework Derived High-Performance Fe ₂ O ₃ @S-rGO Negative Material for Enhanced Overall Supercapacitor Capacitance. <i>ACS Applied Energy Materials</i> , 2021, 4, 11004-11013.	2.5	28
9	A coumarin-appended cyclometalated iridium(III) complex for visible light driven photoelectrochemical bioanalysis. <i>Biosensors and Bioelectronics</i> , 2020, 147, 111779.	5.3	19
10	A controllable top-down etching and in-situ oxidizing strategy: metal-organic frameworks derived Ni-Co/Ni(OH) ₂ @Co ₃ O ₄ hollow nanocages for enhanced supercapacitor performance. <i>Applied Surface Science</i> , 2020, 504, 144395.	3.1	73
11	Effective preparation of Ni _{1.4} Co _{0.6} P@C micro-spheres with prolonged cycling lives for high performance hybrid supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152828.	2.8	25
12	Two new inorganic-organic hybrid zinc phosphites and their derived ZnO/ZnS heterostructure for efficient photocatalytic hydrogen production. <i>RSC Advances</i> , 2020, 10, 812-817.	1.7	7
13	Mo, Co co-doped NiS bulks supported on Ni foam as an efficient electrocatalyst for overall water splitting in alkaline media. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1654-1664.	2.5	23
14	Rational construction of MOF derived hollow leaf-like Ni/Co(VO ₃) _x (OH) _{2-x} for enhanced supercapacitor performance. <i>Applied Surface Science</i> , 2020, 533, 147308.	3.1	26
15	Construction of Ni-Mo sulfides core-shell nanoneedle arrays for hybrid supercapacitors with high mass loading. <i>Journal of Power Sources</i> , 2020, 475, 228631.	4.0	25
16	In situ fabrication of a rose-shaped Co ₂ P ₂ O ₇ /C nanohybrid via a coordination polymer template for supercapacitor application. <i>New Journal of Chemistry</i> , 2020, 44, 12514-12521.	1.4	20
17	A dendrite-free and stable anode for high-performance Li-O ₂ batteries by prestoring Li in reduced graphene oxide coated three-dimensional nickel foam. <i>Chemical Communications</i> , 2020, 56, 7645-7648.	2.2	6
18	Pillar-Coordinated Strategy to Modulate Phase Transfer of Ni(OH) ₂ for Enhanced Supercapacitor Application. <i>ACS Applied Energy Materials</i> , 2020, 3, 5628-5636.	2.5	24

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19	Construction of carbon quantum dots embed Co/Ni(OH)_2 hollow nanocages with enhanced supercapacitor performance. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4342-4351.	1.9	25
20	$\text{NiSe}_2/\text{Ni(OH)}_2$ Heterojunction Composite through Epitaxial-like Strategy as High-Rate Battery-Type Electrode Material. <i>Nano-Micro Letters</i> , 2020, 12, 61.	14.4	44
21	2D nanosheet/3D cubic framework Ni-Co sulfides for improved supercapacitor performance <i>via</i> structural engineering. <i>Dalton Transactions</i> , 2020, 49, 8162-8168.	1.6	13
22	Iron fumarate as large-capacity and long-life anode material for Li-ion battery boosted by conductive Fe_2P decorating. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151826.	2.8	16
23	Fe/N -doped carbon nanofibers with $\text{Fe}_3\text{O}_4/\text{Fe}_2\text{C}$ nanocrystals enmeshed as electrocatalysts for efficient oxygen reduction reaction. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2296-2303.	3.0	15
24	Four novel Co(II) metal-organic frameworks based on semi-rigid ligand and their secondary building units transformation. <i>Journal of Molecular Structure</i> , 2019, 1197, 87-95.	1.8	7
25	Hydrothermal synthesis and electrochemical properties of 3D $\text{Zn}_2\text{V}_2\text{O}_7$ microsphere for alkaline rechargeable battery. <i>Journal of Power Sources</i> , 2019, 439, 227087.	4.0	14
26	$\text{Alkaline Hydrolysis of Amorphous MOF Microspheres to Produce Ultrastable Bimetal Hydroxide Electrode with Boosted Cycling Stability}$. <i>Small</i> , 2019, 15, e1904663.	5.2	36
27	Controlled Hydrolysis of Metal-Organic Frameworks: Hierarchical Ni/Co -Layered Double Hydroxide Microspheres for High-Performance Supercapacitors. <i>ACS Nano</i> , 2019, 13, 7024-7030.	7.3	305
28	Bimetal Hydroxide Electrodes: $\text{Alkaline Hydrolysis of Amorphous MOF Microspheres to Produce Ultrastable Bimetal Hydroxide Electrode with Boosted Cycling Stability}$ (<i>Small</i> 49/2019). <i>Small</i> , 2019, 15, 1970267.	5.2	0
29	Construction of Hollow Cobalt-Nickel Phosphate Nanocages through a Controllable Etching Strategy for High Supercapacitor Performances. <i>ACS Applied Energy Materials</i> , 2019, 2, 1086-1092.	2.5	120
30	Metal-organic framework derived porous hollow ternary sulfide as robust anode material for sodium ion batteries. <i>Materials Today Energy</i> , 2019, 12, 53-61.	2.5	23
31	Two new inorganic-organic hybrid zinc phosphate frameworks and their application in fluorescence sensor and photocatalytic hydrogen evolution. <i>Journal of Solid State Chemistry</i> , 2019, 269, 575-579.	1.4	18
32	A yolk-shelled $\text{Co}_9\text{S}_8/\text{MoS}_2$ -CN nanocomposite derived from a metal-organic framework as a high performance anode for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4776-4782.	5.2	131
33	Two-dimensional cobalt metal-organic frameworks for efficient $\text{C}_3\text{H}_6/\text{CH}_4$ and $\text{C}_3\text{H}_8/\text{CH}_4$ hydrocarbon separation. <i>Chinese Chemical Letters</i> , 2018, 29, 865-868.	4.8	38
34	An Amino-Functionalized Metal-Organic Framework, Based on a Rare $\text{Ba}_{12}(\text{COO})_{18}(\text{NO}_3)_2$ Cluster, for Efficient $\text{C}_3\text{H}_6/\text{C}_2\text{H}_2/\text{C}_2\text{H}_4$ Separation and Preferential Catalytic Performance. <i>Chemistry - A European Journal</i> , 2018, 24, 2137-2143.	1.7	61
35	A MOF-derived coral-like $\text{NiSe}@\text{NC}$ nanohybrid: an efficient electrocatalyst for the hydrogen evolution reaction at all pH values. <i>Nanoscale</i> , 2018, 10, 22758-22765.	2.8	78
36	Synthesis, Structure, and Properties of Coordination Polymers Based on 1,4-Bis((2-methyl-1H-imidazol-1-yl)methyl)benzene and Different Carboxylate Ligands. <i>Crystals</i> , 2018, 8, 288.	1.0	2

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37	Facile synthesis of a two-dimensional layered Ni-MOF electrode material for high performance supercapacitors. <i>RSC Advances</i> , 2018, 8, 17747-17753.	1.7	55
38	Optimizing crystallinity and porosity of hierarchical Ni(OH) ₂ through conformal transformation of metal-organic framework template for supercapacitor applications. <i>CrystEngComm</i> , 2018, 20, 4313-4320.	1.3	32
39	Balancing crystallinity and specific surface area of metal-organic framework derived nickel hydroxide for high-performance supercapacitor. <i>Electrochimica Acta</i> , 2018, 284, 202-210.	2.6	38
40	Bimetallic-MOF Derived Accordion-like Ternary Composite for High-Performance Supercapacitors. <i>Inorganic Chemistry</i> , 2018, 57, 10953-10960.	1.9	108
41	Surface wettability switching of metal-organic framework mesh for oil-water separation. <i>Materials Letters</i> , 2017, 189, 82-85.	1.3	44
42	Stepwise Synthesis of Diverse Isomer MOFs via Metal-Ion Metathesis in a Controlled Single-Crystal-to-Single-Crystal Transformation. <i>Crystal Growth and Design</i> , 2017, 17, 4084-4089.	1.4	29
43	A multi-aromatic hydrocarbon unit induced hydrophobic metal-organic framework for efficient C ₂ /C ₁ hydrocarbon and oil/water separation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1168-1175.	5.2	113
44	Fluorescence turn-on detection of uric acid by a water-stable metal-organic nanotube with high selectivity and sensitivity. <i>Journal of Materials Chemistry C</i> , 2017, 5, 601-606.	2.7	48
45	A Stable Amino-Functionalized Interpenetrated Metal-Organic Framework Exhibiting Gas Selectivity and Pore-Size-Dependent Catalytic Performance. <i>Inorganic Chemistry</i> , 2017, 56, 13634-13637.	1.9	34
46	Monitoring thermally induced structural deformation and framework decomposition of ZIF-8 through in situ temperature dependent measurements. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27178-27183.	1.3	30
47	Green Fabrication of Ultrathin Co ₃ O ₄ Nanosheets from Metal-Organic Framework for Robust High-Rate Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41827-41836.	4.0	118
48	Highly efficient oil/water separation and trace organic contaminants removal based on superhydrophobic conjugated microporous polymer coated devices. <i>Chemical Engineering Journal</i> , 2017, 326, 640-646.	6.6	62
49	Wettability switchable metal-organic framework membranes for pervaporation of water/ethanol mixtures. <i>Inorganic Chemistry Communication</i> , 2017, 82, 64-67.	1.8	25
50	A NbO-type copper metal-organic framework decorated with carboxylate groups exhibiting highly selective CO ₂ adsorption and separation of organic dyes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13844-13851.	5.2	70
51	Pentipyrene-Based Luminescent Cu (II) MOF Exhibiting Selective Gas Adsorption and Unprecedentedly High-Sensitivity Detection of Nitroaromatic Compounds (NACs). <i>Scientific Reports</i> , 2016, 6, 20672.	1.6	51
52	Crystal structures, topological analysis and luminescence properties of three coordination polymers based on a semi-rigid ligand and N-donor ligand linkers. <i>New Journal of Chemistry</i> , 2016, 40, 5957-5965.	1.4	19
53	Expanded Porous Metal-Organic Frameworks by SCSC: Organic Building Units Modifying and Enhanced Gas-Adsorption Properties. <i>Inorganic Chemistry</i> , 2016, 55, 6420-6425.	1.9	33
54	Iron(III) Porphyrin-Based Porous Material as Photocatalyst for Highly Efficient and Selective Degradation of Congo Red. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 599-604.	1.1	53

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55	Metal-organic hybrid materials built with tetrachlorophthalate acid and different N-donor coligands: Structure diversity and photoluminescence. <i>Journal of Solid State Chemistry</i> , 2016, 234, 36-47.	1.4	14
56	Unprecedented Solvent-Dependent Sensitivities in Highly Efficient Detection of Metal Ions and Nitroaromatic Compounds by a Fluorescent Barium Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2016, 55, 1782-1787.	1.9	87
57	Synthesis, structure, and properties of a 3D porous Zn(<i>scp</i>) MOF constructed from a terpyridine-based ligand. <i>RSC Advances</i> , 2016, 6, 16575-16580.	1.7	21
58	Multifunctional lanthanide-organic frameworks for fluorescent sensing, gas separation and catalysis. <i>Dalton Transactions</i> , 2016, 45, 3743-3749.	1.6	74
59	Transition metal coordination polymers based on tetrabromoterephthalic and bis(imidazole) ligands: Syntheses, structures, topological analysis and photoluminescence properties. <i>Journal of Solid State Chemistry</i> , 2015, 229, 49-61.	1.4	7
60	Trimer formation of 6-methyl-1,3,5-triazine-2,4-diamine in salt with organic and inorganic acids: analysis of supramolecular architecture. <i>Science China Chemistry</i> , 2014, 57, 1731-1737.	4.2	8
61	Reactant ratio-modulated entangled Cd(ii) coordination polymers based on rigid tripodal imidazole ligand and tetrabromoterephthalic acid: interpenetration, interdigitation and self-penetration. <i>CrystEngComm</i> , 2013, 15, 5552.	1.3	38
62	Construction of supramolecular polymer hydrogel electrolyte with ionic channels for flexible supercapacitors. <i>Materials Chemistry Frontiers</i> , 0, , .	3.2	13