

Kai Tao

List of Publications by Year in descending order

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108
papers

6,622
citations

53794

45
h-index

66911

78
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108
all docs

108
docs citations

108
times ranked

6483
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-supported metal-organic framework-based nanostructures as binder-free electrodes for supercapacitors. <i>Nanoscale</i> , 2022, 14, 2155-2166.	5.6	73
2	MOF-derived hierarchical core-shell hollow Co ₃ S ₄ @NiCo ₂ O ₄ nanosheet arrays for asymmetric supercapacitors. <i>Dalton Transactions</i> , 2022, 51, 4406-4413.	3.3	27
3	Controllable In Situ Transformation of Layered Double Hydroxides into Ultrathin Metal-Organic Framework Nanosheet Arrays for Energy Storage. <i>Inorganic Chemistry</i> , 2022, 61, 3832-3842.	4.0	32
4	Modulating vectored non-covalent interactions for layered assembly with engineerable properties. <i>Bio-Design and Manufacturing</i> , 2022, 5, 529-539.	7.7	6
5	Controllable Transformation of Metal-Organic Framework Nanosheets into Oxygen Vacancy Ni ₃ Co ₃ @Ni ₃ O ₄ Arrays for Ultrahigh-Capacitance Supercapacitors with Long Lifespan. <i>Inorganic Chemistry</i> , 2022, 61, 4283-4291.	4.0	17
6	Heterostructure of metal-organic framework-derived straw-bundle-like CeO ₂ decorated with (Ni, Ti) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.1	35
7	Boosting the energy storage performance of MOF-derived Co ₃ S ₄ nanoarrays via sulfur vacancy and surface engineering. <i>Chemical Communications</i> , 2022, 58, 6243-6246.	4.1	29
8	Stringing metal-organic framework-derived hollow Co ₃ S ₄ nanopolyhedra on V ₂ O ₅ nanowires for high-performance supercapacitors. <i>Applied Surface Science</i> , 2022, 600, 154076.	6.1	33
9	Construction of 2D ZIF-derived hierarchical and hollow NiCo-LDH nanosheet-on-nanosheet arrays on reduced graphene oxide/Ni foam for boosted electrochemical energy storage. <i>Journal of Alloys and Compounds</i> , 2021, 850, 156864.	5.5	109
10	Design of trimetallic sulfide hollow nanocages from metal-organic frameworks as electrode materials for supercapacitors. <i>Dalton Transactions</i> , 2021, 50, 15260-15266.	3.3	24
11	Recent advances in metal-organic framework-based electrode materials for supercapacitors. <i>Dalton Transactions</i> , 2021, 50, 11701-11710.	3.3	93
12	Co ₃ S ₄ Nanoplate Arrays Decorated with Oxygen-Deficient CeO ₂ Nanoparticles for Supercapacitor Applications. <i>ACS Applied Nano Materials</i> , 2021, 4, 3033-3043.	5.0	49
13	ZIF-Derived Porous CoNi ₂ S ₄ on Intercrosslinked Polypyrrole Tubes for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 4199-4207.	5.1	108
14	A Self-Bleaching Electrochromic Mirror Based on Metal Organic Frameworks. <i>Materials</i> , 2021, 14, 2771.	2.9	10
15	Enhanced Capacitance Performance by Coupling 2D Conductive Metal-Organic Frameworks and Conducting Polymers for Hybrid Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 9534-9541.	5.1	24
16	Hierarchical core-shell 2D MOF nanosheet hybrid arrays for high-performance hybrid supercapacitors. <i>Dalton Transactions</i> , 2021, 50, 8179-8188.	3.3	44
17	EDTA-mimicking amino acid-metal ion coordination for multifunctional packings. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20385-20394.	10.3	4
18	Metal-Organic Framework-Derived Bi ₂ O ₃ /C and NiCo ₂ S ₄ Hollow Nanofibers for Asymmetric Supercapacitors. <i>ACS Applied Nano Materials</i> , 2021, 4, 11895-11906.	5.0	13

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19	An anthropomorphic fuzzy model for the time-spatial assessment of sandstone seepage damage. <i>Automation in Construction</i> , 2020, 109, 102989.	9.8	6
20	Accelerated charge transfer in water-layered peptide assemblies. <i>Energy and Environmental Science</i> , 2020, 13, 96-101.	30.8	39
21	Construction of S-doped ZnCo ₂ O ₄ microspindles with enhanced electrochemical performance for supercapacitors. <i>Vacuum</i> , 2020, 181, 109740.	3.5	29
22	Bioinspired Supramolecular Packing Enables High Thermo-€Sustainability. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19037-19041.	13.8	18
23	Engineering coordination polymer-derived one-dimensional porous S-doped Co ₃ O ₄ nanorods with rich oxygen vacancies as high-performance electrode materials for hybrid supercapacitors. <i>Dalton Transactions</i> , 2020, 49, 10421-10430.	3.3	42
24	Controlled Preparation of Hollow and Porous Co ₉ S ₈ Microplate Arrays for High-Performance Hybrid Supercapacitors. <i>Inorganic Chemistry</i> , 2020, 59, 11174-11183.	4.0	23
25	Bioinspired Supramolecular Packing Enables High Thermo-€Sustainability. <i>Angewandte Chemie</i> , 2020, 132, 19199-19203.	2.0	2
26	Solvent-Controlled Morphology of Amino-Functionalized Bimetal Metal-€Organic Frameworks for Asymmetric Supercapacitors. <i>Inorganic Chemistry</i> , 2020, 59, 11385-11395.	4.0	82
27	Bioinspired Suprahelical Frameworks as Scaffolds for Artificial Photosynthesis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 45192-45201.	8.0	7
28	Fabrication of 2D/2D nanosheet heterostructures of ZIF-derived Co ₃ S ₄ and g-C ₃ N ₄ for asymmetric supercapacitors with superior cycling stability. <i>Dalton Transactions</i> , 2020, 49, 14017-14029.	3.3	40
29	Metal-Organosulfide Coordination Polymer Nanosheet Array as a Battery-Type Electrode for an Asymmetric Supercapacitor. <i>Inorganic Chemistry</i> , 2020, 59, 7360-7369.	4.0	25
30	Inlaying ZIF-derived Co ₃ S ₄ hollow nanocages on intertwined polypyrrole tubes conductive networks for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2020, 341, 136042.	5.2	73
31	MOF-assisted construction of a Co ₉ S ₈ @Ni ₃ S ₂ /ZnS microplate array with ultrahigh areal specific capacity for advanced supercapattery. <i>Dalton Transactions</i> , 2020, 49, 10535-10544.	3.3	22
32	Construction of Hierarchical 2D PANI/Ni ₃ S ₂ Nanosheet Arrays on Ni Foam for High-€Performance Asymmetric Supercapacitors. <i>Batteries and Supercaps</i> , 2020, 3, 370-375.	4.7	29
33	Hollow and Hierarchical Cobalt-€Metal Organic Framework@CoCr ₂ O ₄ Microplate Array as a Battery-€Type Electrode for High-€Performance Hybrid Supercapacitors. <i>ChemElectroChem</i> , 2020, 7, 437-444.	3.4	17
34	High-Efficiency Fluorescence through Bioinspired Supramolecular Self-Assembly. <i>ACS Nano</i> , 2020, 14, 2798-2807.	14.6	49
35	MOF-derived Bi ₂ O ₃ @C microrods as negative electrodes for advanced asymmetric supercapacitors. <i>RSC Advances</i> , 2020, 10, 14107-14112.	3.6	41
36	Zeolitic imidazolate framework derived ZnCo ₂ O ₄ hollow tubular nanofibers for long-life supercapacitors. <i>RSC Advances</i> , 2020, 10, 13922-13928.	3.6	16

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37	Diphenylalanine-Derivative Peptide Assemblies with Increased Aromaticity Exhibit Metal-like Rigidity and High Piezoelectricity. <i>ACS Nano</i> , 2020, 14, 7025-7037.	14.6	59
38	Self-Assembly of Cyclic Dipeptides: Platforms for Functional Materials. <i>Protein and Peptide Letters</i> , 2020, 27, 688-697.	0.9	15
39	Design of Mo-doped cobalt sulfide hollow nanocages from zeolitic imidazolate frameworks as advanced electrodes for supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2178-2184.	6.0	48
40	Core-shell assembly of Co ₃ O ₄ @NiO-ZnO nanoarrays as battery-type electrodes for high-performance supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2481-2487.	6.0	30
41	Construction of NiCo ₂ O ₄ nanosheet-decorated leaf-like Co ₃ O ₄ nanoarrays from metal-organic framework for high-performance hybrid supercapacitors. <i>Dalton Transactions</i> , 2019, 48, 14156-14163.	3.3	72
42	Non-proteinaceous hydrolase comprised of a phenylalanine metallo-supramolecular amyloid-like structure. <i>Nature Catalysis</i> , 2019, 2, 977-985.	34.4	142
43	Bioinspired Stable and Photoluminescent Assemblies for Power Generation. <i>Advanced Materials</i> , 2019, 31, e1807481.	21.0	82
44	Photoactive properties of supramolecular assembled short peptides. <i>Chemical Society Reviews</i> , 2019, 48, 4387-4400.	38.1	150
45	Metal-Ion Modulated Structural Transformation of Amyloid-Like Dipeptide Supramolecular Self-Assembly. <i>ACS Nano</i> , 2019, 13, 7300-7309.	14.6	121
46	Bi ₂ S ₃ nanorod-stacked hollow microtubes self-assembled from bismuth-based metal-organic frameworks as advanced negative electrodes for hybrid supercapacitors. <i>Dalton Transactions</i> , 2019, 48, 9057-9061.	3.3	19
47	Core-shell assembly of carbon nanofibers and a 2D conductive metal-organic framework as a flexible free-standing membrane for high-performance supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1824-1830.	6.0	70
48	Ultrathin nanosheet-assembled hollow microplate CoMoO ₄ array derived from metal-organic framework for supercapacitor with ultrahigh areal capacitance. <i>Journal of Power Sources</i> , 2019, 430, 51-59.	7.8	98
49	Stable and optoelectronic dipeptide assemblies for power harvesting. <i>Materials Today</i> , 2019, 30, 10-16.	14.2	62
50	Ultrathin Ni-MOF nanosheet arrays grown on polyaniline decorated Ni foam as an advanced electrode for asymmetric supercapacitors with high energy density. <i>Dalton Transactions</i> , 2019, 48, 4119-4123.	3.3	122
51	Zeolitic imidazolate framework-derived Co ₃ S ₄ @Co(OH) ₂ nanoarrays as self-supported electrodes for asymmetric supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1398-1404.	6.0	57
52	NiCo ₂ S ₄ @Ni ₃ S ₂ hybrid nanoarray on Ni foam for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2019, 43, 7344-7349.	2.8	29
53	Preparation of Hierarchical Porous Si/silica Monoliths by Steaming Crystallization. <i>ChemistrySelect</i> , 2019, 4, 3741-3744.	1.5	4
54	Mechanically rigid supramolecular assemblies formed from an Fmoc-guanine conjugated peptide nucleic acid. <i>Nature Communications</i> , 2019, 10, 5256.	12.8	24

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55	Entropy Method for Structural Health Monitoring Based on Statistical Cause and Effect Analysis of Acoustic Emission and Vibration Signals. <i>IEEE Access</i> , 2019, 7, 172515-172525.	4.2	9
56	Mesoporous Ni ₂ CoS ₄ electrode materials derived from coordination polymer bricks for high-performance supercapacitor. <i>Journal of Solid State Chemistry</i> , 2019, 271, 239-245.	2.9	11
57	Piezoelectric Peptide and Metabolite Materials. <i>Research</i> , 2019, 2019, 9025939.	5.7	44
58	Preparation of Polydopamine-Modified 3D Interconnected Macroporous Silica for Laccase Immobilization. <i>Macromolecular Research</i> , 2018, 26, 616-622.	2.4	7
59	A Zinc Cobalt Sulfide Nanosheet Array Derived from a 2D Bimetallic Metal-Organic Frameworks for High-Performance Supercapacitors. <i>Chemistry - A European Journal</i> , 2018, 24, 12584-12591.	3.3	194
60	Metal-organic frameworks derived porous carbon coated SiO ₂ composite as superior anode material for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 765, 512-519.	5.5	29
61	A metal-organic framework derived hierarchical nickel-cobalt sulfide nanosheet array on Ni foam with enhanced electrochemical performance for supercapacitors. <i>Dalton Transactions</i> , 2018, 47, 3496-3502.	3.3	188
62	Formation of bimetallic metal-organic framework nanosheets and their derived porous nickel-cobalt sulfides for supercapacitors. <i>Dalton Transactions</i> , 2018, 47, 5639-5645.	3.3	127
63	Tanghulu-like NiO microcubes on Co ₃ O ₄ nanowires arrays anchored on Ni foam with improved electrochemical performances for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 748, 496-503.	5.5	38
64	MOF-derived hollow double-shelled NiO nanospheres for high-performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2018, 734, 1-8.	5.5	152
65	CO ₂ hydrogenation to methanol over Cu/ZnO catalysts synthesized via a facile solid-phase grinding process using oxalic acid. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 110-117.	2.7	15
66	Conductive 2D Metal-Organic Frameworks Decorated on Layered Double Hydroxides Nanoflower Surface for High-Performance Supercapacitor. <i>ChemistrySelect</i> , 2018, 3, 13596-13602.	1.5	35
67	Metal-Organic Framework Templated 3D Hierarchical ZnCo ₂ O ₄ @Ni(OH) ₂ Core-Shell Nanosheet Arrays for High-Performance Supercapacitors. <i>Chemistry - A European Journal</i> , 2018, 24, 18106-18114.	3.3	79
68	Hierarchical Two-Dimensional Conductive Metal-Organic Framework/Layered Double Hydroxide Nanoarray for a High-Performance Supercapacitor. <i>Inorganic Chemistry</i> , 2018, 57, 6202-6205.	4.0	86
69	Microwave-assisted synthesis of pillared Ni-based metal-organic framework and its derived hierarchical NiO nanoparticles for supercapacitors. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 14697-14704.	2.2	31
70	Design of a porous cobalt sulfide nanosheet array on Ni foam from zeolitic imidazolate frameworks as an advanced electrode for supercapacitors. <i>Nanoscale</i> , 2018, 10, 2735-2741.	5.6	253
71	Quantum confined peptide assemblies with tunable visible to near-infrared spectral range. <i>Nature Communications</i> , 2018, 9, 3217.	12.8	122
72	Shish-kebab type MnCo ₂ O ₄ @Co ₃ O ₄ nanoneedle arrays derived from MnCo-LDH@ZIF-67 for high-performance supercapacitors and efficient oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2018, 354, 875-884.	12.7	205

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73	Construction of Ni-Co-Mn layered double hydroxide nanoflakes assembled hollow nanocages from bimetallic imidazolate frameworks for supercapacitors. <i>Materials Research Bulletin</i> , 2018, 106, 243-249.	5.2	83
74	Co ₃ O ₄ @CoNi-LDH core/shell nanosheet arrays for high-performance battery-type supercapacitors. <i>Chemical Engineering Journal</i> , 2018, 350, 551-558.	12.7	176
75	Enhanced Hydrogen Production from Steam Reforming of Vegetable Oil over Bimodal ZrO ₂ @SiO ₂ Supported Ni Catalyst. <i>ChemistrySelect</i> , 2017, 2, 527-532.	1.5	10
76	Studying structure and dynamics of self-assembled peptide nanostructures using fluorescence and super resolution microscopy. <i>Chemical Communications</i> , 2017, 53, 7294-7297.	4.1	23
77	Cobalt-Borate Nanoarray: An Efficient and Durable Electrocatalyst for Water Oxidation under Benign Conditions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 15383-15387.	8.0	30
78	A hierarchical NiO/NiMn-layered double hydroxide nanosheet array on Ni foam for high performance supercapacitors. <i>Dalton Transactions</i> , 2017, 46, 7388-7391.	3.3	88
79	Multiporous Supramolecular Microspheres for Artificial Photosynthesis. <i>Chemistry of Materials</i> , 2017, 29, 4454-4460.	6.7	32
80	In Situ Growth of Metal-Organic Framework on BiOBr 2D Material with Excellent Photocatalytic Activity for Dye Degradation. <i>Crystal Growth and Design</i> , 2017, 17, 2309-2313.	3.0	97
81	High-performance supercapacitors of Cu-based porous coordination polymer nanowires and the derived porous CuO nanotubes. <i>Dalton Transactions</i> , 2017, 46, 16821-16827.	3.3	15
82	Hierarchical core-shell SiO ₂ @PDA@BiOBr microspheres with enhanced visible-light-driven photocatalytic performance. <i>Dalton Transactions</i> , 2017, 46, 11451-11458.	3.3	49
83	Metal-Organic Frameworks-Derived Porous In ₂ O ₃ Hollow Nanorod for High-Performance Ethanol Gas Sensor. <i>ChemistrySelect</i> , 2017, 2, 10918-10925.	1.5	55
84	Self-assembling peptide semiconductors. <i>Science</i> , 2017, 358, .	12.6	357
85	Fmoc-modified amino acids and short peptides: simple bio-inspired building blocks for the fabrication of functional materials. <i>Chemical Society Reviews</i> , 2016, 45, 3935-3953.	38.1	366
86	Precisely designing bimodal catalyst structure to trap cobalt nanoparticles inside mesopores and its application in Fischer-Tropsch synthesis. <i>Chemical Engineering Journal</i> , 2016, 306, 784-790.	12.7	22
87	Enhanced photocatalytic performance of BiOBr/NH ₂ -MIL-125(Ti) composite for dye degradation under visible light. <i>Dalton Transactions</i> , 2016, 45, 17521-17529.	3.3	171
88	Entropic Phase Transitions with Stable Twisted Intermediates of Bio-Inspired Self-Assembly. <i>Chemistry - A European Journal</i> , 2016, 22, 15237-15241.	3.3	8
89	Design of Controllable Bio-Inspired Chiroptic Self-Assemblies. <i>Biomacromolecules</i> , 2016, 17, 2937-2945.	5.4	17
90	In situ growth of ZIF-8 nanocrystals on layered double hydroxide nanosheets for enhanced CO ₂ capture. <i>Dalton Transactions</i> , 2016, 45, 12632-12635.	3.3	55

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91	MOF-derived hierarchical double-shelled NiO/ZnO hollow spheres for high-performance supercapacitors. Dalton Transactions, 2016, 45, 13311-13316.	3.3	172
92	Facile Carbonization of Microporous Organic Polymers into Hierarchically Porous Carbons Targeted for Effective CO ₂ Uptake at Low Pressures. ACS Applied Materials & Interfaces, 2016, 8, 18383-18392.	8.0	90
93	Controllable Phase Separation by Boc-Modified Lipophilic Acid as a Multifunctional Extractant. Scientific Reports, 2015, 5, 17509.	3.3	4
94	Tandem catalytic conversion of 1-butene and ethene to propene over combined mesoporous W-FDU-12 and MgO catalysts. RSC Advances, 2015, 5, 23981-23989.	3.6	19
95	Metathesis of 1-butene and ethene to propene over mesoporous W-KIT-6 catalysts: the influence of Si/W ratio. Journal of Porous Materials, 2015, 22, 613-620.	2.6	13
96	Enhanced catalytic performance for metathesis reactions over ordered tungsten and aluminum co-doped mesoporous KIT-6 catalysts. New Journal of Chemistry, 2015, 39, 7971-7978.	2.8	24
97	Optical property modulation of Fmoc group by pH-dependent self-assembly. RSC Advances, 2015, 5, 73914-73918.	3.6	25
98	Controlled synthesis of Pd@NiO@SiO ₂ mesoporous core-shell nanoparticles and their enhanced catalytic performance for p-chloronitrobenzene hydrogenation with H ₂ . Catalysis Science and Technology, 2015, 5, 405-414.	4.1	56
99	Enhanced catalytic performance of molybdenum-doped mesoporous SBA-15 for metathesis of 1-butene and ethene to propene. Catalysis Science and Technology, 2014, 4, 4010-4019.	4.1	50
100	Transformation of Au ₃ M/SiO ₂ (M=Ni, Co, Fe) into Au@MO _x /SiO ₂ Catalysts for the Reduction of p-Nitrophenol. Catalysis Letters, 2014, 144, 1001-1008.	2.6	9
101	Sol-gel auto-combustion synthesis of Ni@CexZr1-xO ₂ catalysts for carbon dioxide reforming of methane. RSC Advances, 2013, 3, 22285.	3.6	24
102	A hollow ceramic fiber supported ZIF-8 membrane with enhanced gas separation performance prepared by hot dip-coating seeding. Journal of Materials Chemistry A, 2013, 1, 13046.	10.3	60
103	High performance ZIF-8 molecular sieve membrane on hollow ceramic fiber via crystallizing-rubbing seed deposition. Chemical Engineering Journal, 2013, 220, 1-5.	12.7	118
104	Short peptide-directed synthesis of one-dimensional platinum nanostructures with controllable morphologies. Scientific Reports, 2013, 3, 2565.	3.3	45
105	Interfacial adsorption of lipopeptidesurfactants at the silica/water interface studied by neutron reflection. Soft Matter, 2011, 7, 1777-1788.	2.7	17
106	Chemical and spatial promotional effects of bimodal pore catalysts for methane dry reforming. Chemical Engineering Journal, 2011, 170, 258-263.	12.7	33
107	Development of platinum-based bimodal pore catalyst for CO ₂ reforming of CH ₄ . Catalysis Today, 2010, 153, 150-155.	4.4	40
108	Influence of Ovalbumin on CaCO ₃ Precipitation during <i>in Vitro</i> Biomineralization. Journal of Physical Chemistry B, 2010, 114, 5301-5308.	2.6	50