Ming Hu

List of Publications by Year
in descending order

119 papers	8,560 citations	76326 40 h-index	43889 91 g-index
124 all docs	124 docs citations	124 times ranked	10643 citing authors

#	Article	IF	Citations
1	Nanoporous carbons through direct carbonization of a zeolitic imidazolate framework for supercapacitor electrodes. Chemical Communications, 2012, 48, 7259.	4.1	624
2	Direct Carbonization of Al-Based Porous Coordination Polymer for Synthesis of Nanoporous Carbon. Journal of the American Chemical Society, 2012, 134, 2864-2867.	13.7	588
3	Direct Synthesis of MOFâ€Derived Nanoporous Carbon with Magnetic Co Nanoparticles toward Efficient Water Treatment. Small, 2014, 10, 2096-2107.	10.0	588
4	Facile synthesis of nanoporous carbons with controlled particle sizes by direct carbonization of monodispersed ZIF-8 crystals. Chemical Communications, 2013, 49, 2521.	4.1	474
5	Synthesis of Prussian Blue Nanoparticles with a Hollow Interior by Controlled Chemical Etching. Angewandte Chemie - International Edition, 2012, 51, 984-988.	13.8	424
6	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIFâ€67 Crystals. Angewandte Chemie - International Edition, 2017, 56, 8435-8440.	13.8	362
7	Modular assembly of superstructures from polyphenol-functionalized building blocks. Nature Nanotechnology, 2016, 11, 1105-1111.	31.5	337
8	Hollow carbon nanobubbles: monocrystalline MOF nanobubbles and their pyrolysis. Chemical Science, 2017, 8, 3538-3546.	7.4	329
9	Void Engineering in Metalâ€“Organic Frameworks via Synergistic Etching and Surface Functionalization. Advanced Functional Materials, 2016, 26, 5827-5834.	14.9	302
10	Nanoarchitectonics: A New Materials Horizon for Prussian Blue and Its Analogues. Bulletin of the Chemical Society of Japan, 2019, 92, 875-904.	3.2	252
11	Tailored Design of Multiple Nanoarchitectures in Metal-Cyanide Hybrid Coordination Polymers. Journal of the American Chemical Society, 2013, 135, 384-391.	13.7	228
12	Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. Angewandte Chemie - International Edition, 2016, 55, 8228-8234.	13.8	184
13	Large Cs adsorption capability of nanostructured Prussian Blue particles with high accessible surface areas. Journal of Materials Chemistry, 2012, 22, 18261.	6.7	174
14	Synthesis of Superparamagnetic Nanoporous Iron Oxide Particles with Hollow Interiors by Using Prussian Blue Coordination Polymers. Chemistry of Materials, 2012, 24, 2698-2707.	6.7	163
15	Mesoporous Metallic Cells: Design of Uniformly Sized Hollow Mesoporous Ptâ€“Ru Particles with Tunable Shell Thicknesses. Small, 2013, 9, 1047-1051.	10.0	159
16	Highly biocompatible, hollow coordination polymer nanoparticles as cisplatin carriers for efficient intracellular drug delivery. Chemical Communications, 2012, 48, 5151.	4.1	157
17	Engineering Poly(ethylene glycol) Particles for Improved Biodistribution. ACS Nano, 2015, 9, 1571-1580.	14.6	148
18	Size- and shape-controlled synthesis of Prussian Blue nanoparticles by a polyvinylpyrrolidone-assisted crystallization process. CrystEngComm, 2012, 14, 3387.	2.6	143

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19	Direct synthesis of nanoporous carbon nitride fibers using Al-based porous coordination polymers (Al-PCPs). Chemical Communications, 2011, 47, 8124.	4.1	140
20	Kinetically Controlled Crystallization for Synthesis of Monodispersed Coordination Polymer Nanocubes and Their Selfâ€Assembly to Periodic Arrangements. Chemistry - A European Journal, 2013, 19, 1882-1885.	3.3	122
21	Engineering Low-Fouling and pH-Degradable Capsules through the Assembly of Metal-Phenolic Networks. Biomacromolecules, 2015, 16, 807-814.	5.4	121
22	Bottomâ€Up Synthesis of Monodispersed Singleâ€Crystalline Cyanoâ€Bridged Coordination Polymer Nanoflakes. Angewandte Chemie - International Edition, 2013, 52, 1235-1239.	13.8	87
23	Preparation of Various Prussian Blue Analogue Hollow Nanocubes with Single Crystalline Shells. European Journal of Inorganic Chemistry, 2012, 2012, 4795-4799.	2.0	82
24	Biomass-Derived Carbon Paper to Sandwich Magnetite Anode for Long-Life Li-Ion Battery. ACS Nano, 2019, 13, 11901-11911.	14.6	82
25	Prussian blue microcrystals prepared by selective etching and their conversion to mesoporous magnetic iron(iii) oxides. Chemical Communications, 2010, 46, 1133-1135.	4.1	81
26	Superstructured mesocrystals through multiple inherent molecular interactions for highly reversible sodium ion batteries. Science Advances, 2021, 7, eabh3482.	10.3	74
27	Zincâ€Tiered Synthesis of 3D Graphene for Monolithic Electrodes. Advanced Materials, 2019, 31, e1901186.	21.0	68
28	HF-Free Synthesis of Anatase TiO₂ Nanosheets with Largely Exposed and Clean {001} facets and Their Enhanced Rate Performance As Anodes of Lithium-Ion Battery. ACS Applied Materials & Interfaces, 2014, 6, 19176-19183.	8.0	65
29	The largest CPL enhancement by further assembly of self-assembled superhelices based on the helical TPE macrocycle. Materials Horizons, 2020, 7, 3209-3216.	12.2	65
30	Controlled Synthesis of Nanoporous Nickel Oxide with Twoâ€Dimensional Shapes through Thermal Decomposition of Metalâ€“Cyanide Hybrid Coordination Polymers. Chemistry - A European Journal, 2015, 21, 3605-3612.	3.3	64
31	Fabrication of coreâ€“shell, yolkâ€“shell and hollow Fe₃O₄@carbon microboxes for high-performance lithium-ion batteries. Materials Chemistry Frontiers, 2017, 1, 823-830.	5.9	58
32	Three-dimensional hierarchical Prussian blue composed of ultrathin nanosheets: enhanced hetero-catalytic and adsorption properties. Chemical Communications, 2015, 51, 17568-17571.	4.1	53
33	Synthesis, Characterization, and Properties of Binuclear Gold(I) Phosphine Alkynyl Complexes. Organometallics, 2010, 29, 2808-2814.	2.3	51
34	Nanoporous Mn-based electrocatalysts through thermal conversion of cyano-bridged coordination polymers toward ultra-high efficiency hydrogen peroxide production. Journal of Materials Chemistry A, 2016, 4, 9266-9274.	10.3	51
35	Prussian Blue mesocrystals prepared by a facile hydrothermal method. CrystEngComm, 2009, 11, 2257.	2.6	50
36	Modular Construction of Prussian Blue Analog and TiO₂ Dualâ€Compartment Janus Nanoreactor for Efficient Photocatalytic Water Splitting. Advanced Science, 2021, 8, 2001987.	11.2	48

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37	Coordination polymers for catalysis: enhancement of catalytic activity through hierarchical structuring. Chemical Communications, 2014, 50, 8543-8546.	4.1	47
38	Controllable nitrogen-doping of nanoporous carbons enabled by coordination frameworks. Journal of Materials Chemistry A, 2019, 7, 647-656.	10.3	43
39	Singleâ€Crystalâ€like Nanoporous Spinel Oxides: A Strategy for Synthesis of Nanoporous Metal Oxides Utilizing Metalâ€Cyanide Hybrid Coordination Polymers. Chemistry - A European Journal, 2014, 20, 17375-17384.	3.3	41
40	Chiral recognition and enantiomer excess determination based on emission wavelength change of AIEgen rotor. Nature Communications, 2020, 11, 161.	12.8	41
41	Versatile Loading of Diverse Cargo into Functional Polymer Capsules. Advanced Science, 2015, 2, 1400007.	11.2	40
42	Structuralization of Ca²⁺-Based Metalâ€“Organic Frameworks Prepared via Coordination Replication of Calcium Carbonate. Inorganic Chemistry, 2016, 55, 3700-3705.	4.0	39
43	Controlled synthesis of novel flowerlike Î±-Fe2O3 nanostructures via a one-step biphasic interfacial reaction route. CrystEngComm, 2012, 14, 7701.	2.6	36
44	Surfactant-Assisted Hydrothermal Synthesis of Dendritic Magnetite Microcrystals. Crystal Growth and Design, 2009, 9, 820-824.	3.0	35
45	Three-dimensionalization of ultrathin nanosheets in a two-dimensional nano-reactor: macroporous CuO microstructures with enhanced cycling performance. Chemical Communications, 2015, 51, 206-209.	4.1	35
46	Synthesis of a Titaniumâ€Containing Prussianâ€Blue Analogue with a Wellâ€Defined Cube Structure and Its Thermal Conversion into a Nanoporous Titaniumâ€“Ironâ€Based Oxide. Chemistry - an Asian Journal, 2011, 6, 2282-2286.	3.3	34
47	Tunable Circularly Polarized Luminescence from Single Crystal and Powder of the Simplest Tetraphenylethylene Helicate. ACS Nano, 2021, 15, 16673-16682.	14.6	34
48	Prussian blue mesocrystals: an example of self-construction. CrystEngComm, 2010, 12, 2679.	2.6	33
49	Rational Design and Synthesis of Cyanoâ€Bridged Coordination Polymers with PreciseÂ-Control of Particle Size from 20 to 500 nm. European Journal of Inorganic Chemistry, 2013, 2013, 3141-3145.	2.0	33
50	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIFâ€67 Crystals. Angewandte Chemie, 2017, 129, 8555-8560.	2.0	33
51	Poly(ethylene glycol)-Mediated Assembly of Vaccine Particles to Improve Stability and Immunogenicity. ACS Applied Materials & Interfaces, 2021, 13, 13978-13989.	8.0	32
52	Liquidâ€“liquid interface-assisted solvothermal synthesis of durian-like Î±-Fe2O3 hollow spheres constructed by nano-polyhedrons. CrystEngComm, 2012, 14, 3056.	2.6	31
53	An Autoâ€Switchable Dualâ€Mode Seawater Energy Extraction System Enabled by Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2019, 58, 7431-7434.	13.8	31
54	Poly(ethylene glycol)-mediated mineralization of metalâ€“organic frameworks. Chemical Communications, 2020, 56, 11078-11081.	4.1	31

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55	Mesocrystalline coordination polymer as a promising cathode for sodium-ion batteries. Chemical Communications, 2016, 52, 1957-1960.	4.1	30
56	Synthesis of Nanoporous Niâ€Co Mixed Oxides by Thermal Decomposition of Metalâ€Cyanide Coordination Polymers. Chemistry - an Asian Journal, 2015, 10, 1541-1545.	3.3	29
57	The self-assembly and chiroptical properties of tetraphenylethylene dicycle tetracholesterol with an AIE effect. Journal of Materials Chemistry C, 2019, 7, 8236-8243.	5.5	29
58	Enhanced DNA Sensing and Chiroptical Performance by Restriction of Double-Bond Rotation of AIE cis-Tetraphenylethylene Macrocycle Diammoniums. Organic Letters, 2020, 22, 1836-1840.	4.6	29
59	Metallic cobalt microcrystals with flowerlike architectures: Synthesis, growth mechanism and magnetic properties. Materials Research Bulletin, 2009, 44, 1468-1473.	5.2	28
60	Facile synthesis of air-stable Prussian white microcubes via a hydrothermal method. Materials Research Bulletin, 2011, 46, 702-707.	5.2	28
61	Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. Angewandte Chemie, 2016, 128, 8368-8374.	2.0	28
62	Thermal Conversion of Hollow Prussian Blue Nanoparticles into Nanoporous Iron Oxides with Crystallized Hematite Phase. European Journal of Inorganic Chemistry, 2014, 2014, 1137-1141.	2.0	27
63	Coordination Polymer Nanoglue: Robust Adhesion Based on Collective Lamellar Stacking of Nanoplates. ACS Nano, 2017, 11, 3662-3670.	14.6	27
64	Flexible conductive polymer composite materials based on strutted graphene foam. Composites Communications, 2021, 25, 100757.	6.3	27
65	Efficient Federated Learning for Cloud-Based AIoT Applications. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2021, 40, 2211-2223.	2.7	26
66	Hindered Tetraphenylethylene Helicates: Chiral Fluorophores with Deepâ€Blue Emission, Multipleâ€Color CPL, and Chiral Recognition Ability. Angewandte Chemie - International Edition, 2022, 61, e202115216.	13.8	26
67	Metal-Organic Powder Thermochemical Solid-Vapor Architectonics toward Gradient Hybrid Monolith with Combined Structure-Function Features. Matter, 2020, 3, 879-891.	10.0	22
68	Hierarchical magnetic iron (iii) oxides prepared by solid-state thermal decomposition of coordination polymers. RSC Advances, 2012, 2, 4782.	3.6	21
69	Sophisticated Crystal Transformation of a Coordination Polymer into Mesoporous Monocrystalline Tiâ€“Feâ€Based Oxide with Roomâ€Temperature Ferromagnetic Behavior. Chemistry - an Asian Journal, 2011, 6, 3195-3199.	3.3	18
70	Prussian Blue Analogue Mesoframes for Enhanced Aqueous Sodium-ion Storage. Crystals, 2018, 8, 23.	2.2	18
71	Size-controlled flow synthesis of metal-organic frameworks crystals monitored by in-situ ultravioletâ€“visible absorption spectroscopy. Chinese Chemical Letters, 2021, 32, 1131-1134.	9.0	16
72	Recent Advances in Rechargeable Batteries with Prussian Blue Analogs Nanoarchitectonics. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 1877-1893.	3.7	16

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73	Magnetism tuned by intercalation of various metal ions in coordination polymer. Chinese Chemical Letters, 2019, 30, 1390-1392.	9.0	15
74	Controlled Crystallization of Cyanoâ€Bridged Cuâ€“Pt Coordination Polymers with Twoâ€Dimensional Morphology. Chemistry - an Asian Journal, 2014, 9, 1511-1514.	3.3	14
75	Fighting at the Interface: Structural Evolution during Heteroepitaxial Growth of Cyanometallate Coordination Polymers. Inorganic Chemistry, 2018, 57, 8701-8704.	4.0	14
76	A flexible cyanometallate coordination polymer electrode for electrochemical dual-mode seawater energy extraction. Journal of Materials Chemistry A, 2019, 7, 23084-23090.	10.3	14
77	Precisely Engineering Architectures of Co/C Subâ€Microreactors for Selective Syngas Conversion. Small, 2021, 17, e2100082.	10.0	14
78	Non-classical crystallization controlled by centrifugation. CrystEngComm, 2010, 12, 3391.	2.6	13
79	Generalizable Strategy for Engineering Protein Particles with pH-Triggered Disassembly and Recoverable Protein Functionality. ACS Macro Letters, 2015, 4, 160-164.	4.8	13
80	Hydrothermal synthesis of magnetite crystals: From sheet to pseudo-octahedron. Materials Research Bulletin, 2010, 45, 1811-1815.	5.2	12
81	Wellâ€Defined Cyanometallate Coordinationâ€Polymer Nanoarchitectures Realized by Wetâ€Chemical Manipulation. ChemNanoMat, 2017, 3, 780-789.	2.8	12
82	Confined Synthesis of Coordination Frameworks inside Double-Network Hydrogel for Fabricating Hydrogel-Based Water Pipes with High Adsorption Capacity for Cesium Ions. Bulletin of the Chemical Society of Japan, 2018, 91, 1357-1363.	3.2	12
83	Single-Crystal Lattice Filling in Connected Spaces inside 3D Networks. Journal of the American Chemical Society, 2021, 143, 6447-6459.	13.7	12
84	A high-power seawater battery working in a wide temperature range enabled by an ultra-stable Prussian blue analogue cathode. Journal of Materials Chemistry A, 2021, 9, 8685-8691.	10.3	12
85	A Highly Enantioselective Access to Chiral 1â€(Î²â€Arylalkyl)â€1Hâ€1,2,4â€triazole Derivatives as Potential Agricultural Bactericides. Chemistry and Biodiversity, 2011, 8, 1497-1511.	2.1	11
86	Monocrystalline mesoporous metal oxide with perovskite structure: a facile solid-state transformation of a coordination polymer. Chemical Communications, 2014, 50, 13849-13852.	4.1	11
87	Preferential deposition of cyanometallate coordination polymer nanoplates through evaporation of droplets. Chinese Chemical Letters, 2019, 30, 630-633.	9.0	11
88	Automated and remote synthesis of poly(ethylene glycol)-mineralized ZIF-8 composite particles via a synthesizer assisted by femtosecond laser micromachining. Chinese Chemical Letters, 2022, 33, 497-500.	9.0	11
89	Recent advances in autonomous synthesis of materials. ChemPhysMater, 2022, 1, 77-85.	2.8	11
90	Cyanoâ€Bridged Trimetallic Coordination Polymer Nanoparticles and Their Thermal Decomposition into Nanoporous Spinel Ferromagnetic Oxides. Chemistry - A European Journal, 2016, 22, 15042-15048.	3.3	10

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91	Few-layer graphitic shells networked by low temperature pyrolysis of zeolitic imidazolate frameworks. Materials Chemistry Frontiers, 2018, 2, 520-529.	5.9	9
92	Synthesis of coordination polymer thin films with conductance-response to mechanical stimulation. Chemical Communications, 2019, 55, 2545-2548.	4.1	9
93	Hierarchically porous carbon cages synthesized through in situ migration of templates. Chinese Chemical Letters, 2020, 31, 303-306.	9.0	9
94	Spatial-controlled etching of coordination polymers. Chinese Chemical Letters, 2021, 32, 635-641.	9.0	9
95	Algae-inspired multifunctional ocean solar-energy conversion chain enabled by coordination polymers. Cell Reports Physical Science, 2021, 2, 100466.	5.6	9
96	How Does the Distribution of External Magnetic Lines of Force Influence the Growth of Ferromagnetic Material?. Journal of Physical Chemistry C, 2010, 114, 12090-12094.	3.1	8
97	Three-Dimensional Large-Scale Fused Silica Microfluidic Chips Enabled by Hybrid Laser Microfabrication for Continuous-Flow UV Photochemical Synthesis. Micromachines, 2022, 13, 543.	2.9	8
98	Flexible films enabled by coordination polymer nanoarchitectonics. Molecular Systems Design and Engineering, 2019, 4, 531-544.	3.4	7
99	Coupled Electrical Conduction in Coordination Polymers: From Electrons/Ions to Mixed Charge Carriers. Chemistry - an Asian Journal, 2020, 15, 1202-1213.	3.3	7
100	Circularly Polarized Luminescence and <scp>SHG</scp> Chiral Signals of Helical <scp>TPE</scp> Macrocycles. Chinese Journal of Chemistry, 2021, 39, 3353-3359.	4.9	7
101	Design of two-dimensional metalâ€“organic framework nanosheets for emerging applications. FlatChem, 2021, 29, 100287.	5.6	7
102	Quantitative Timing Analysis for Cyber-Physical Systems Using Uncertainty-Aware Scenario-Based Specifications. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2020, 39, 4006-4017.	2.7	6
103	Convenient Access to Î²â€Substituted Chiral Phenones. Helvetica Chimica Acta, 2009, 92, 1007-1013.	1.6	4
104	A systematic study of the impact of etching time to the sensitivity of SiNW sensor fabricated by MACEtch process. Materials Science in Semiconductor Processing, 2016, 56, 307-312.	4.0	4
105	Synthesis of Mesoporous Yolk-Shell Magnetic Prussian Blue Particles for Multi-Functional Nanomedicine. Journal of Nanoscience and Nanotechnology, 2018, 18, 3059-3066.	0.9	4
106	Rational Synthesis of Hollow Prussian Blue Analogue Through Coordination Replication and Controlled-Etching for Cs-Ion Removal. Journal of Nanoscience and Nanotechnology, 2018, 18, 3230-3238.	0.9	4
107	Automated synthesis of gadopentetate dimeglumine through solid-liquid reaction in femtosecond laser fabricated microfluidic chips. Chinese Chemical Letters, 2022, 33, 1077-1080.	9.0	3
108	Electron transfer bridging by porous seawater fluid. Cell Reports Physical Science, 2021, 2, 100518.	5.6	3

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109	An X-State Solid-liquid Mixture with Unusual Mechanical Properties by Water and Coordination Polymer Nanosheets Nanoarchitectonics. Nanoscale, 2022, , .	5.6	3
110	Controlled Synthesis of Nanoporous Nickel Oxide with Twoâ€Dimensional Shapes through Thermal Decomposition of Metalâ€“Cyanide Hybrid Coordination Polymers. Chemistry - A European Journal, 2015, 21, 3509-3509.	3.3	2
111	Inducing Intermediates in Biotransformation of Natural Polyacetylene and A Novel Spiro-Î³-Lactone from Red Ginseng by Solid Co-Culture of Two Gut Chaetomium globosum and The Potential Bioactivity Modification by Oxidative Metabolism. Molecules, 2020, 25, 1216.	3.8	2
112	Anti-corrosive Prussian blue film modified by polydopamine for energy extraction and sensing in seawater. Molecular Systems Design and Engineering, 2022, 7, 480-486.	3.4	2
113	Iron Single Atoms Anchored on Nitrogen-Doped Carbon Matrix/Nanotube Hybrid Supports for Excellent Oxygen Reduction Properties. Nanomaterials, 2022, 12, 1593.	4.1	2
114	Frontispiece: Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. Angewandte Chemie - International Edition, 2016, 55, .	13.8	1
115	Space charge formation related to the structural relaxation of SiO2/LDPE nanocomposite. , 2017, , .		1
116	Cover Picture: Controlled Synthesis of Nanoporous Nickel Oxide with Twoâ€Dimensional Shapes through Thermal Decomposition of Metalâ€“Cyanide Hybrid Coordination Polymers (Chem. Eur. J.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.3	0
117	Frontispiz: Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. Angewandte Chemie, 2016, 128, .	2.0	0
118	An Autoâ€Switchable Dualâ€Mode Seawater Energy Extraction System Enabled by Metalâ€“Organic Frameworks. Angewandte Chemie, 2019, 131, 7509-7512.	2.0	0
119	Metal-Organic Powder Thermochemical Solid-Vapor Architectonics Towards Gradient Hybrid Monolith with Combined Structure-Function Features. SSRN Electronic Journal, 0, , .	0.4	0