

Ming Hu

List of Publications by Year in descending order

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119
papers

8,560
citations

76294

40
h-index

43868

91
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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. <i>Chemical Communications</i> , 2012, 48, 7259.	2.2	624
2	Direct Carbonization of Al-Based Porous Coordination Polymer for Synthesis of Nanoporous Carbon. <i>Journal of the American Chemical Society</i> , 2012, 134, 2864-2867.	6.6	588
3	Direct Synthesis of MOF-Derived Nanoporous Carbon with Magnetic Co Nanoparticles toward Efficient Water Treatment. <i>Small</i> , 2014, 10, 2096-2107.	5.2	588
4	Facile synthesis of nanoporous carbons with controlled particle sizes by direct carbonization of monodispersed ZIF-8 crystals. <i>Chemical Communications</i> , 2013, 49, 2521.	2.2	474
5	Synthesis of Prussian Blue Nanoparticles with a Hollow Interior by Controlled Chemical Etching. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 984-988.	7.2	424
6	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIF-67 Crystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8435-8440.	7.2	362
7	Modular assembly of superstructures from polyphenol-functionalized building blocks. <i>Nature Nanotechnology</i> , 2016, 11, 1105-1111.	15.6	337
8	Hollow carbon nanobubbles: monocrystalline MOF nanobubbles and their pyrolysis. <i>Chemical Science</i> , 2017, 8, 3538-3546.	3.7	329
9	Void Engineering in Metal-Organic Frameworks via Synergistic Etching and Surface Functionalization. <i>Advanced Functional Materials</i> , 2016, 26, 5827-5834.	7.8	302
10	Nanoarchitectonics: A New Materials Horizon for Prussian Blue and Its Analogues. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 875-904.	2.0	252
11	Tailored Design of Multiple Nanoarchitectures in Metal-Cyanide Hybrid Coordination Polymers. <i>Journal of the American Chemical Society</i> , 2013, 135, 384-391.	6.6	228
12	Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8228-8234.	7.2	184
13	Large Cs adsorption capability of nanostructured Prussian Blue particles with high accessible surface areas. <i>Journal of Materials Chemistry</i> , 2012, 22, 18261.	6.7	174
14	Synthesis of Superparamagnetic Nanoporous Iron Oxide Particles with Hollow Interiors by Using Prussian Blue Coordination Polymers. <i>Chemistry of Materials</i> , 2012, 24, 2698-2707.	3.2	163
15	Mesoporous Metallic Cells: Design of Uniformly Sized Hollow Mesoporous Pt-Ru Particles with Tunable Shell Thicknesses. <i>Small</i> , 2013, 9, 1047-1051.	5.2	159
16	Highly biocompatible, hollow coordination polymer nanoparticles as cisplatin carriers for efficient intracellular drug delivery. <i>Chemical Communications</i> , 2012, 48, 5151.	2.2	157
17	Engineering Poly(ethylene glycol) Particles for Improved Biodistribution. <i>ACS Nano</i> , 2015, 9, 1571-1580.	7.3	148
18	Size- and shape-controlled synthesis of Prussian Blue nanoparticles by a polyvinylpyrrolidone-assisted crystallization process. <i>CrystEngComm</i> , 2012, 14, 3387.	1.3	143

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19	Direct synthesis of nanoporous carbon nitride fibers using Al-based porous coordination polymers (Al-PCPs). <i>Chemical Communications</i> , 2011, 47, 8124.	2.2	140
20	Kinetically Controlled Crystallization for Synthesis of Monodispersed Coordination Polymer Nanocubes and Their Self-Assembly to Periodic Arrangements. <i>Chemistry - A European Journal</i> , 2013, 19, 1882-1885.	1.7	122
21	Engineering Low-Fouling and pH-Degradable Capsules through the Assembly of Metal-Phenolic Networks. <i>Biomacromolecules</i> , 2015, 16, 807-814.	2.6	121
22	Bottom-Up Synthesis of Monodispersed Single-Crystalline Cyano-Bridged Coordination Polymer Nanoflakes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1235-1239.	7.2	87
23	Preparation of Various Prussian Blue Analogue Hollow Nanocubes with Single Crystalline Shells. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 4795-4799.	1.0	82
24	Biomass-Derived Carbon Paper to Sandwich Magnetite Anode for Long-Life Li-Ion Battery. <i>ACS Nano</i> , 2019, 13, 11901-11911.	7.3	82
25	Prussian blue microcrystals prepared by selective etching and their conversion to mesoporous magnetic iron(III) oxides. <i>Chemical Communications</i> , 2010, 46, 1133-1135.	2.2	81
26	Superstructured mesocrystals through multiple inherent molecular interactions for highly reversible sodium ion batteries. <i>Science Advances</i> , 2021, 7, eabh3482.	4.7	74
27	Zinc-Tiered Synthesis of 3D Graphene for Monolithic Electrodes. <i>Advanced Materials</i> , 2019, 31, e1901186.	11.1	68
28	HF-Free Synthesis of Anatase TiO ₂ Nanosheets with Largely Exposed and Clean {001} facets and Their Enhanced Rate Performance As Anodes of Lithium-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19176-19183.	4.0	65
29	The largest CPL enhancement by further assembly of self-assembled superhelices based on the helical TPE macrocycle. <i>Materials Horizons</i> , 2020, 7, 3209-3216.	6.4	65
30	Controlled Synthesis of Nanoporous Nickel Oxide with Two-Dimensional Shapes through Thermal Decomposition of Metal-Cyanide Hybrid Coordination Polymers. <i>Chemistry - A European Journal</i> , 2015, 21, 3605-3612.	1.7	64
31	Fabrication of core-shell, yolk-shell and hollow Fe ₃ O ₄ @carbon microboxes for high-performance lithium-ion batteries. <i>Materials Chemistry Frontiers</i> , 2017, 1, 823-830.	3.2	58
32	Three-dimensional hierarchical Prussian blue composed of ultrathin nanosheets: enhanced hetero-catalytic and adsorption properties. <i>Chemical Communications</i> , 2015, 51, 17568-17571.	2.2	53
33	Synthesis, Characterization, and Properties of Binuclear Gold(I) Phosphine Alkynyl Complexes. <i>Organometallics</i> , 2010, 29, 2808-2814.	1.1	51
34	Nanoporous Mn-based electrocatalysts through thermal conversion of cyano-bridged coordination polymers toward ultra-high efficiency hydrogen peroxide production. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9266-9274.	5.2	51
35	Prussian Blue mesocrystals prepared by a facile hydrothermal method. <i>CrystEngComm</i> , 2009, 11, 2257.	1.3	50
36	Modular Construction of Prussian Blue Analog and TiO ₂ Dual-Compartment Janus Nanoreactor for Efficient Photocatalytic Water Splitting. <i>Advanced Science</i> , 2021, 8, 2001987.	5.6	48

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37	Coordination polymers for catalysis: enhancement of catalytic activity through hierarchical structuring. <i>Chemical Communications</i> , 2014, 50, 8543-8546.	2.2	47
38	Controllable nitrogen-doping of nanoporous carbons enabled by coordination frameworks. <i>Journal of Materials Chemistry A</i> , 2019, 7, 647-656.	5.2	43
39	Single-Crystal-Like Nanoporous Spinel Oxides: A Strategy for Synthesis of Nanoporous Metal Oxides Utilizing Metal-Cyanide Hybrid Coordination Polymers. <i>Chemistry - A European Journal</i> , 2014, 20, 17375-17384.	1.7	41
40	Chiral recognition and enantiomer excess determination based on emission wavelength change of AlEgen rotor. <i>Nature Communications</i> , 2020, 11, 161.	5.8	41
41	Versatile Loading of Diverse Cargo into Functional Polymer Capsules. <i>Advanced Science</i> , 2015, 2, 1400007.	5.6	40
42	Structuralization of Ca ²⁺ -Based Metal-Organic Frameworks Prepared via Coordination Replication of Calcium Carbonate. <i>Inorganic Chemistry</i> , 2016, 55, 3700-3705.	1.9	39
43	Controlled synthesis of novel flowerlike γ -Fe ₂ O ₃ nanostructures via a one-step biphasic interfacial reaction route. <i>CrystEngComm</i> , 2012, 14, 7701.	1.3	36
44	Surfactant-Assisted Hydrothermal Synthesis of Dendritic Magnetite Microcrystals. <i>Crystal Growth and Design</i> , 2009, 9, 820-824.	1.4	35
45	Three-dimensionalization of ultrathin nanosheets in a two-dimensional nano-reactor: macroporous CuO microstructures with enhanced cycling performance. <i>Chemical Communications</i> , 2015, 51, 206-209.	2.2	35
46	Synthesis of a Titanium-Containing Prussian-Blue Analogue with a Well-Defined Cube Structure and Its Thermal Conversion into a Nanoporous Titanium-Iron-Based Oxide. <i>Chemistry - an Asian Journal</i> , 2011, 6, 2282-2286.	1.7	34
47	Tunable Circularly Polarized Luminescence from Single Crystal and Powder of the Simplest Tetraphenylethylene Helicate. <i>ACS Nano</i> , 2021, 15, 16673-16682.	7.3	34
48	Prussian blue mesocrystals: an example of self-construction. <i>CrystEngComm</i> , 2010, 12, 2679.	1.3	33
49	Rational Design and Synthesis of Cyano-Bridged Coordination Polymers with Precise-Control of Particle Size from 20 to 500 nm. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3141-3145.	1.0	33
50	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIF-67 Crystals. <i>Angewandte Chemie</i> , 2017, 129, 8555-8560.	1.6	33
51	Poly(ethylene glycol)-Mediated Assembly of Vaccine Particles to Improve Stability and Immunogenicity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13978-13989.	4.0	32
52	Liquid-liquid interface-assisted solvothermal synthesis of durian-like γ -Fe ₂ O ₃ hollow spheres constructed by nano-polyhedrons. <i>CrystEngComm</i> , 2012, 14, 3056.	1.3	31
53	An Auto-Switchable Dual-Mode Seawater Energy Extraction System Enabled by Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7431-7434.	7.2	31
54	Poly(ethylene glycol)-mediated mineralization of metal-organic frameworks. <i>Chemical Communications</i> , 2020, 56, 11078-11081.	2.2	31

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55	Mesocrystalline coordination polymer as a promising cathode for sodium-ion batteries. <i>Chemical Communications</i> , 2016, 52, 1957-1960.	2.2	30
56	Synthesis of Nanoporous Ni-Co Mixed Oxides by Thermal Decomposition of Metal-Cyanide Coordination Polymers. <i>Chemistry - an Asian Journal</i> , 2015, 10, 1541-1545.	1.7	29
57	The self-assembly and chiroptical properties of tetraphenylethylene dicyclic tetracholesterol with an AIE effect. <i>Journal of Materials Chemistry C</i> , 2019, 7, 8236-8243.	2.7	29
58	Enhanced DNA Sensing and Chiroptical Performance by Restriction of Double-Bond Rotation of AIE <i>cis</i> -Tetraphenylethylene Macrocycle Diammoniums. <i>Organic Letters</i> , 2020, 22, 1836-1840.	2.4	29
59	Metallic cobalt microcrystals with flowerlike architectures: Synthesis, growth mechanism and magnetic properties. <i>Materials Research Bulletin</i> , 2009, 44, 1468-1473.	2.7	28
60	Facile synthesis of air-stable Prussian white microcubes via a hydrothermal method. <i>Materials Research Bulletin</i> , 2011, 46, 702-707.	2.7	28
61	Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. <i>Angewandte Chemie</i> , 2016, 128, 8368-8374.	1.6	28
62	Thermal Conversion of Hollow Prussian Blue Nanoparticles into Nanoporous Iron Oxides with Crystallized Hematite Phase. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 1137-1141.	1.0	27
63	Coordination Polymer Nanoglue: Robust Adhesion Based on Collective Lamellar Stacking of Nanoplates. <i>ACS Nano</i> , 2017, 11, 3662-3670.	7.3	27
64	Flexible conductive polymer composite materials based on strutted graphene foam. <i>Composites Communications</i> , 2021, 25, 100757.	3.3	27
65	Efficient Federated Learning for Cloud-Based AIoT Applications. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2021, 40, 2211-2223.	1.9	26
66	Hindered Tetraphenylethylene Helicates: Chiral Fluorophores with Deep Blue Emission, Multiple Color CPL, and Chiral Recognition Ability. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202115216.	7.2	26
67	Metal-Organic Powder Thermochemical Solid-Vapor Architectonics toward Gradient Hybrid Monolith with Combined Structure-Function Features. <i>Matter</i> , 2020, 3, 879-891.	5.0	22
68	Hierarchical magnetic iron (iii) oxides prepared by solid-state thermal decomposition of coordination polymers. <i>RSC Advances</i> , 2012, 2, 4782.	1.7	21
69	Sophisticated Crystal Transformation of a Coordination Polymer into Mesoporous Monocrystalline Ti-Fe-Based Oxide with Room-Temperature Ferromagnetic Behavior. <i>Chemistry - an Asian Journal</i> , 2011, 6, 3195-3199.	1.7	18
70	Prussian Blue Analogue Mesoframes for Enhanced Aqueous Sodium-ion Storage. <i>Crystals</i> , 2018, 8, 23.	1.0	18
71	Size-controlled flow synthesis of metal-organic frameworks crystals monitored by in-situ ultraviolet-visible absorption spectroscopy. <i>Chinese Chemical Letters</i> , 2021, 32, 1131-1134.	4.8	16
72	Recent Advances in Rechargeable Batteries with Prussian Blue Analogs Nanoarchitectonics. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 1877-1893.	1.9	16

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73	Magnetism tuned by intercalation of various metal ions in coordination polymer. Chinese Chemical Letters, 2019, 30, 1390-1392.	4.8	15
74	Controlled Crystallization of Cyano-Bridged Cu-Pt Coordination Polymers with Two-Dimensional Morphology. Chemistry - an Asian Journal, 2014, 9, 1511-1514.	1.7	14
75	Fighting at the Interface: Structural Evolution during Heteroepitaxial Growth of Cyanometallate Coordination Polymers. Inorganic Chemistry, 2018, 57, 8701-8704.	1.9	14
76	A flexible cyanometallate coordination polymer electrode for electrochemical dual-mode seawater energy extraction. Journal of Materials Chemistry A, 2019, 7, 23084-23090.	5.2	14
77	Precisely Engineering Architectures of Co/C Sub-Microreactors for Selective Syngas Conversion. Small, 2021, 17, e2100082.	5.2	14
78	Non-classical crystallization controlled by centrifugation. CrystEngComm, 2010, 12, 3391.	1.3	13
79	Generalizable Strategy for Engineering Protein Particles with pH-Triggered Disassembly and Recoverable Protein Functionality. ACS Macro Letters, 2015, 4, 160-164.	2.3	13
80	Hydrothermal synthesis of magnetite crystals: From sheet to pseudo-octahedron. Materials Research Bulletin, 2010, 45, 1811-1815.	2.7	12
81	Well-Defined Cyanometallate Coordination Polymer Nanoarchitectures Realized by Wet-Chemical Manipulation. ChemNanoMat, 2017, 3, 780-789.	1.5	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.	2.0	12
83	Single-Crystal Lattice Filling in Connected Spaces inside 3D Networks. Journal of the American Chemical Society, 2021, 143, 6447-6459.	6.6	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.	5.2	12
85	A Highly Enantioselective Access to Chiral 1-(Arylalkyl)-1,2,4-Triazole Derivatives as Potential Agricultural Bactericides. Chemistry and Biodiversity, 2011, 8, 1497-1511.	1.0	11
86	Monocrystalline mesoporous metal oxide with perovskite structure: a facile solid-state transformation of a coordination polymer. Chemical Communications, 2014, 50, 13849-13852.	2.2	11
87	Preferential deposition of cyanometallate coordination polymer nanoplates through evaporation of droplets. Chinese Chemical Letters, 2019, 30, 630-633.	4.8	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.	4.8	11
89	Recent advances in autonomous synthesis of materials. ChemPhysMater, 2022, 1, 77-85.	1.4	11
90	Cyano-Bridged Trimetallic Coordination Polymer Nanoparticles and Their Thermal Decomposition into Nanoporous Spinel Ferromagnetic Oxides. Chemistry - A European Journal, 2016, 22, 15042-15048.	1.7	10

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91	Few-layer graphitic shells networked by low temperature pyrolysis of zeolitic imidazolate frameworks. <i>Materials Chemistry Frontiers</i> , 2018, 2, 520-529.	3.2	9
92	Synthesis of coordination polymer thin films with conductance-response to mechanical stimulation. <i>Chemical Communications</i> , 2019, 55, 2545-2548.	2.2	9
93	Hierarchically porous carbon cages synthesized through in situ migration of templates. <i>Chinese Chemical Letters</i> , 2020, 31, 303-306.	4.8	9
94	Spatial-controlled etching of coordination polymers. <i>Chinese Chemical Letters</i> , 2021, 32, 635-641.	4.8	9
95	Algae-inspired multifunctional ocean solar-energy conversion chain enabled by coordination polymers. <i>Cell Reports Physical Science</i> , 2021, 2, 100466.	2.8	9
96	How Does the Distribution of External Magnetic Lines of Force Influence the Growth of Ferromagnetic Material?. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12090-12094.	1.5	8
97	Three-Dimensional Large-Scale Fused Silica Microfluidic Chips Enabled by Hybrid Laser Microfabrication for Continuous-Flow UV Photochemical Synthesis. <i>Micromachines</i> , 2022, 13, 543.	1.4	8
98	Flexible films enabled by coordination polymer nanoarchitectonics. <i>Molecular Systems Design and Engineering</i> , 2019, 4, 531-544.	1.7	7
99	Coupled Electrical Conduction in Coordination Polymers: From Electrons/Ions to Mixed Charge Carriers. <i>Chemistry - an Asian Journal</i> , 2020, 15, 1202-1213.	1.7	7
100	Circularly Polarized Luminescence and SHG Chiral Signals of Helical TPE Macrocycles. <i>Chinese Journal of Chemistry</i> , 2021, 39, 3353-3359.	2.6	7
101	Design of two-dimensional metal-organic framework nanosheets for emerging applications. <i>FlatChem</i> , 2021, 29, 100287.	2.8	7
102	Quantitative Timing Analysis for Cyber-Physical Systems Using Uncertainty-Aware Scenario-Based Specifications. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020, 39, 4006-4017.	1.9	6
103	Convenient Access to β -Substituted Chiral Phenones. <i>Helvetica Chimica Acta</i> , 2009, 92, 1007-1013.	1.0	4
104	A systematic study of the impact of etching time to the sensitivity of SiNW sensor fabricated by MACEtch process. <i>Materials Science in Semiconductor Processing</i> , 2016, 56, 307-312.	1.9	4
105	Synthesis of Mesoporous Yolk-Shell Magnetic Prussian Blue Particles for Multi-Functional Nanomedicine. <i>Journal of Nanoscience and Nanotechnology</i> , 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. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3230-3238.	0.9	4
107	Automated synthesis of gadopentetate dimeglumine through solid-liquid reaction in femtosecond laser fabricated microfluidic chips. <i>Chinese Chemical Letters</i> , 2022, 33, 1077-1080.	4.8	3
108	Electron transfer bridging by porous seawater fluid. <i>Cell Reports Physical Science</i> , 2021, 2, 100518.	2.8	3

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109	An X-State Solid-liquid Mixture with Unusual Mechanical Properties by Water and Coordination Polymer Nanosheets Nanoarchitectonics. <i>Nanoscale</i> , 2022, , .	2.8	3
110	Controlled Synthesis of Nanoporous Nickel Oxide with Twoâ€²Dimensional Shapes through Thermal Decomposition of Metalâ€²Cyanide Hybrid Coordination Polymers. <i>Chemistry - A European Journal</i> , 2015, 21, 3509-3509.	1.7	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 <i>Chaetomium globosum</i> and The Potential Bioactivity Modification by Oxidative Metabolism. <i>Molecules</i> , 2020, 25, 1216.	1.7	2
112	Anti-corrosive Prussian blue film modified by polydopamine for energy extraction and sensing in seawater. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 480-486.	1.7	2
113	Iron Single Atoms Anchored on Nitrogen-Doped Carbon Matrix/Nanotube Hybrid Supports for Excellent Oxygen Reduction Properties. <i>Nanomaterials</i> , 2022, 12, 1593.	1.9	2
114	Frontispiece: Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. <i>Angewandte Chemie - International Edition</i> , 2016, 55, .	7.2	1
115	Space charge formation related to the structural relaxation of SiO ₂ /LDPE nanocomposite. , 2017, , .		1
116	Cover Picture: Controlled Synthesis of Nanoporous Nickel Oxide with Twoâ€²Dimensional Shapes through Thermal Decomposition of Metalâ€²Cyanide Hybrid Coordination Polymers (<i>Chem. Eur. J.</i>) Tj ETQq0 0 0 rg17/Overlook 10 Tf 50	1.7	1
117	Frontispiz: Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. <i>Angewandte Chemie</i> , 2016, 128, .	1.6	0
118	An Autoâ€²Switchable Dualâ€²Mode Seawater Energy Extraction System Enabled by Metalâ€²Organic Frameworks. <i>Angewandte Chemie</i> , 2019, 131, 7509-7512.	1.6	0
119	Metal-Organic Powder Thermochemical Solid-Vapor Architectonics Towards Gradient Hybrid Monolith with Combined Structure-Function Features. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0