

Ming Liu

List of Publications by Year in descending order

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60
papers

4,840
citations

126858

33
h-index

149623

56
g-index

64
all docs

64
docs citations

64
times ranked

5854
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal Coordination Mediated Reversible Conversion between Linear and Cross-Linked Supramolecular Polymers. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1090-1094.	7.2	415
2	SiO ₂ Hollow Nanosphere-Based Composite Solid Electrolyte for Lithium Metal Batteries to Suppress Lithium Dendrite Growth and Enhance Cycle Life. <i>Advanced Energy Materials</i> , 2016, 6, 1502214.	10.2	346
3	In Situ Synthesis of a Hierarchical All-Solid-State Electrolyte Based on Nitrile Materials for High-Performance Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1500353.	10.2	300
4	Porous Organic Cage Thin Films and Molecular Sieving Membranes. <i>Advanced Materials</i> , 2016, 28, 2629-2637.	11.1	275
5	Barely porous organic cages for hydrogen isotope separation. <i>Science</i> , 2019, 366, 613-620.	6.0	210
6	Ultrafine TiO ₂ Decorated Carbon Nanofibers as Multifunctional Interlayer for High-Performance Lithium-Sulfur Battery. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23105-23113.	4.0	200
7	Acid- and Base-Stable Porous Organic Cages: Shape Persistence and pH Stability via Post-synthetic Tying of a Flexible Amine Cage. <i>Journal of the American Chemical Society</i> , 2014, 136, 7583-7586.	6.6	192
8	Styrene Purification by Guest-Induced Restructuring of Pillar[6]arene. <i>Journal of the American Chemical Society</i> , 2017, 139, 2908-2911.	6.6	191
9	Near-Ideal Xylene Selectivity in Adaptive Molecular Pillar[5]arene Crystals. <i>Journal of the American Chemical Society</i> , 2018, 140, 6921-6930.	6.6	191
10	Suppressing Self-Discharge and Shuttle Effect of Lithium-Sulfur Batteries with V ₂ O ₅ -Decorated Carbon Nanofiber Interlayer. <i>Small</i> , 2017, 13, 1602539.	5.2	190
11	Vapochromic crystals: understanding vapochromism from the perspective of crystal engineering. <i>Chemical Society Reviews</i> , 2020, 49, 1517-1544.	18.7	166
12	A review of gassing behavior in Li ₄ Ti ₅ O ₁₂ -based lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6368-6381.	5.2	157
13	An interwoven MoO ₃ @CNT scaffold interlayer for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8612-8619.	5.2	141
14	Structural water as an essential comonomer in supramolecular polymerization. <i>Science Advances</i> , 2017, 3, eaao0900.	4.7	139
15	Three-dimensional protonic conductivity in porous organic cage solids. <i>Nature Communications</i> , 2016, 7, 12750.	5.8	133
16	Linear Positional Isomer Sorting in Nonporous Adaptive Crystals of a Pillar[5]arene. <i>Journal of the American Chemical Society</i> , 2018, 140, 3190-3193.	6.6	132
17	Recent innovative configurations in high-energy lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5222-5234.	5.2	115
18	Taco Complex Templated Syntheses of a Cryptand/Paraquat [2]Rotaxane and a [2]Catenane by Olefin Metathesis. <i>Organic Letters</i> , 2009, 11, 3350-3353.	2.4	113

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19	Electrosprayed porous Fe ₃ O ₄ /carbon microspheres as anode materials for high-performance lithium-ion batteries. <i>Nano Research</i> , 2018, 11, 892-904.	5.8	110
20	Photoresponsive Host-Guest Systems Based on a New Azobenzene-Containing Cryptand. <i>Organic Letters</i> , 2010, 12, 2558-2561.	2.4	100
21	SO ₂ Capture Using Porous Organic Cages. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 17556-17563.	7.2	85
22	Influence of Geometry of Inlet Guide Vanes on Pressure Fluctuations of a Centrifugal Pump. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2018, 140, .	0.8	65
23	Cyclized-polyacrylonitrile modified carbon nanofiber interlayers enabling strong trapping of polysulfides in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12973-12980.	5.2	64
24	Pyridine Detection Using Supramolecular Organic Frameworks Incorporating Cucurbit[10]uril. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7434-7442.	4.0	63
25	Selectivity Algorithm for the Formation of Two Cryptand/Paraquat Catenanes. <i>Organic Letters</i> , 2010, 12, 760-763.	2.4	57
26	Design Method of Controllable Blade Angle and Orthogonal Optimization of Pressure Rise for a Multiphase Pump. <i>Energies</i> , 2018, 11, 1048.	1.6	57
27	High-yield preparation of [2]rotaxanes based on the bis(m-phenylene)-32-crown-10-based cryptand/paraquat derivative recognition motif. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 2103.	1.5	54
28	Dodecaamide Cages: Organic 12-Arm Building Blocks for Supramolecular Chemistry. <i>Journal of the American Chemical Society</i> , 2013, 135, 10007-10010.	6.6	50
29	Three-dimensional bis(m-phenylene)-32-crown-10-based cryptand/paraquat catenanes. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1288.	1.5	44
30	Influence of Prewhirl Angle and Axial Distance on Energy Performance and Pressure Fluctuation for a Centrifugal Pump with Inlet Guide Vanes. <i>Energies</i> , 2017, 10, 695.	1.6	40
31	Efficient syntheses of bis(m-phenylene)-26-crown-8-based cryptand/paraquat derivative [2]rotaxanes by immediate solvent evaporation method. <i>Tetrahedron</i> , 2009, 65, 1488-1494.	1.0	35
32	Preparation of Bis(m-phenylene)-32-crown-10-Based Cryptand/Bisparaquat [3]Rotaxanes with High Efficiency. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 6128-6133.	1.2	33
33	A Novel Lithiated Silicon-Sulfur Battery Exploiting an Optimized Solid-Like Electrolyte to Enhance Safety and Cycle Life. <i>Small</i> , 2017, 13, 1602015.	5.2	33
34	Lithium Reaction to Improve the Rate Performance of Nanoporous Anatase TiO ₂ Anodes. <i>Energy Technology</i> , 2013, 1, 668-674.	1.8	30
35	Binding of secondary dialkylammonium salts by pyrido-21-crown-7. <i>Tetrahedron Letters</i> , 2008, 49, 6917-6920.	0.7	28
36	Robust Supramolecular Nano-Tunnels Built from Molecular Bricks**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7148-7154.	7.2	28

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37	Synthesis of Bis(m-phenylene)-32-crown-10-Based Discrete Rhomboids Driven by Metal-Coordination and Complexation with Paraquat. <i>Journal of Organic Chemistry</i> , 2009, 74, 3905-3912.	1.7	25
38	Self-Assembly of Amphiphilic Liquid Crystal Polymers Obtained from a Cyclopropane-1,1-Dicarboxylate Bearing a Cholesteryl Mesogen. <i>Langmuir</i> , 2012, 28, 11215-11224.	1.6	25
39	Host size effect in the complexation of two bis(m-phenylene)-32-crown-10-based cryptands with a diazapyrenium salt. <i>Tetrahedron Letters</i> , 2007, 48, 7537-7541.	0.7	19
40	Room temperature all-solid-state lithium batteries based on a soluble organic cage ionic conductor. <i>Nature Communications</i> , 2022, 13, 2031.	5.8	19
41	Modular assembly of porous organic cage crystals: isorecticular quasiracemates and ternary co-crystal. <i>CrystEngComm</i> , 2017, 19, 4933-4941.	1.3	18
42	Hydrogen Isotope Separation Using a Metal-Organic Cage Built from Macrocycles. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	14
43	Creating porosity in a trianglimine macrocycle by heterochiral pairing. <i>Chemical Communications</i> , 2021, 57, 6141-6144.	2.2	12
44	Polymeric Fiber Sorbents Embedded with Porous Organic Cages. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47118-47126.	4.0	9
45	Inherent Ethyl Acetate Selectivity in a Trianglimine Molecular Solid. <i>Chemistry - A European Journal</i> , 2021, 27, 10589-10594.	1.7	6
46	Dynamics in Flexible Pillar[5]arenes Probed by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13370-13381.	1.5	5
47	Negatively charged crown ethers for binding paraquat in water. <i>Science China Chemistry</i> , 2010, 53, 1074-1080.	4.2	4
48	A polymeric membrane permeabilizer displaying densely packed arrays of crown ether lateral substituents. <i>RSC Advances</i> , 2012, 2, 8606-8609.	1.7	4
49	Robust Supramolecular Nano-Tunnels Built from Molecular Bricks**. <i>Angewandte Chemie</i> , 2021, 133, 7224-7230.	1.6	4
50	SO ₂ Capture Using Porous Organic Cages. <i>Angewandte Chemie</i> , 2021, 133, 17697-17704.	1.6	3
51	Synthesis, characterization, and ion-complexing properties of polymers displaying densely packed arrays of crown-ethers as lateral substituents. <i>Journal of Polymer Science Part A</i> , 2014, 52, 2337-2345.	2.5	2
52	Electrolytes: In Situ Synthesis of a Hierarchical All-Solid-State Electrolyte Based on Nitrile Materials for High-Performance Lithium-Ion Batteries (Adv. Energy Mater. 15/2015). <i>Advanced Energy Materials</i> , 2015, 5, n/a-n/a.	10.2	2
53	Tuning Material Properties of Porous Organic Cage CC3 with Postsynthetic Dynamic Covalent Chemistry. <i>European Journal of Organic Chemistry</i> , 2022, 2022, e202101507.	1.2	2
54	Hydrogen isotope separation using a metal-organic cage built from macrocycles. <i>Angewandte Chemie</i> , 0, , .	1.6	2

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55	Double-Cavity Norbornene-sec Cucurbit[10]uril Enables Efficient and Rapid Separation of Pyridine from Mixtures of Toluene, Benzene, and Pyridine. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
56	Molecular Sieves: Porous Organic Cage Thin Films and Molecular Sieving Membranes (<i>Adv. Mater.</i>)	1.1	1
57	Sulfur Batteries: A Novel Lithiated Silicon Sulfur Battery Exploiting an Optimized Solid-Like Electrolyte to Enhance Safety and Cycle Life (<i>Small</i> 3/2017). <i>Small</i> , 2017, 13, .	5.2	0
58	Innenrücktitelbild: SO ₂ Capture Using Porous Organic Cages (<i>Angew. Chem.</i> 32/2021). <i>Angewandte Chemie</i> , 2021, 133, 17891-17891.	1.6	0
59	Optimal Recognition of Volleyball Player's Arm Movement Track Based on Embedded Microprocessor. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-11.	0.8	0
60	Massage on Muscle Enzyme Histochemical Changes of Sport Peripheral Nerve Injury in Wushu. <i>Integrated Ferroelectrics</i> , 2022, 226, 219-230.	0.3	0