Jian-Ke Sun

List of Publications by Year
in descending order

42 papers	3,541 citations	218677 26 h-index	265206 42 g-index
43 all docs	43 docs citations	43 times ranked	4796 citing authors

#	Article	IF	Citations
1	Nanoporous Cationic Organic Cages for Trapping Heavy Metal Oxyanions. ACS Applied Nano Materials, 2022, 5, 890-898.	5.0	6
2	Encapsulation of Metal Clusters within Porous Organic Materials: From Synthesis to Catalysis Applications. Chemistry - an Asian Journal, 2022, 17, .	3.3	16
3	Electrostatically cooperative host-in-host of metal cluster âŠ, ionic organic cages in nanopores for enhanced catalysis. Nature Communications, 2022, 13, 1471.	12.8	14
4	Hierarchically Porous Poly(ionic liquid) â€“ Organic Cage Composite Membrane for Efficient Iodine Capture. Chemistry - A European Journal, 2022, 28, .	3.3	4
5	Porous Organic Cage Nanostructures for Construction of Complex Sequential Reaction Networks. ACS Applied Nano Materials, 2022, 5, 7974-7982.	5.0	4
6	Hierarchically Porous Organic Cages. Angewandte Chemie - International Edition, 2021, 60, 12490-12497.	13.8	43
7	Hierarchically Porous Organic Cages. Angewandte Chemie, 2021, 133, 12598-12605.	2.0	7
8	Two-Pronged Effect of Warm Solution and Solvent-Vapor Annealing for Efficient and Stable All-Small-Molecule Organic Solar Cells. ACS Energy Letters, 2021, 6, 2898-2906.	17.4	50
9	Ionic organic cage-encapsulated metal clusters for switchable catalysis. Cell Reports Physical Science, 2021, 2, 100546.	5.6	16
10	Accelerating Crystallization of Open Organic Materials by Poly(ionic liquid)s. Angewandte Chemie - International Edition, 2020, 59, 22109-22116.	13.8	37
11	Polymer-Derived Heteroatom-Doped Porous Carbon Materials. Chemical Reviews, 2020, 120, 9363-9419.	47.7	492
12	Enhancing crystal growth using polyelectrolyte solutions and shear flow. Nature, 2020, 579, 73-79.	27.8	70
13	Poly(ionic liquid) composites. Chemical Society Reviews, 2020, 49, 1726-1755.	38.1	234
14	Poly(ionic liquid)s with engineered nanopores for energy and environmental applications. Polymer, 2020, 202, 122640.	3.8	39
15	Ionic organic cage-encapsulating phase-transferable metal clusters. Chemical Science, 2019, 10, 1450-1456.	7.4	42
16	Dispersed nano-MOFs via a stimuli-responsive biohybrid-system with enhanced photocatalytic performance. Materials Horizons, 2019, 6, 802-809.	12.2	25
17	Doped porous carbon nanostructures with N Co O catalytic active sites for efficient electrocatalytic oxygen reduction reaction. Applied Surface Science, 2019, 463, 386-394.	6.1	16
18	Bipyridinium derivative-based coordination polymers: From synthesis to materials applications. Coordination Chemistry Reviews, 2019, 378, 533-560.	18.8	205

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19	Encapsulating highly catalytically active metal nanoclusters inside porous organic cages. Nature Catalysis, 2018, 1, 214-220.	34.4	310
20	Porous polycarbene-bearing membrane actuator for ultrasensitive weak-acid detection and real-time chemical reaction monitoring. Nature Communications, 2018, 9, 1717.	12.8	42
21	Three birds, one stone â€“ photo-/piezo-/chemochromism in one conjugated nanoporous ionic organic network. Journal of Materials Chemistry C, 2018, 6, 9065-9070.	5.5	15
22	General Synthetic Route toward Highly Dispersed Metal Clusters Enabled by Poly(ionic liquid)s. Journal of the American Chemical Society, 2017, 139, 8971-8976.	13.7	110
23	A tale of two membranes: from poly (ionic liquid) to metalâ€“organic framework hybrid nanoporous membranesviapseudomorphic replacement. Materials Horizons, 2017, 4, 681-687.	12.2	39
24	Flexible Viologenâ€Based Porous Framework Showing Xâ€ray Induced Photochromism with Singleâ€Crystalâ€toâ€Singleâ€Crystal Transformation. Angewandte Chemie, 2017, 129, 14650-14654.	2.0	22
25	Polytriazolium poly(ionic liquid) bearing triiodide anions: Synthesis, basic properties and electrochemical behaviors. Polymer, 2017, 124, 246-251.	3.8	16
26	Nanoporous ionic organic networks: from synthesis to materials applications. Chemical Society Reviews, 2016, 45, 6627-6656.	38.1	152
27	From covalentâ€“organic frameworks to hierarchically porous B-doped carbons: a molten-salt approach. Journal of Materials Chemistry A, 2016, 4, 4273-4279.	10.3	88
28	Toward Homogenization of Heterogeneous Metal Nanoparticle Catalysts with Enhanced Catalytic Performance: Soluble Porous Organic Cage as a Stabilizer and Homogenizer. Journal of the American Chemical Society, 2015, 137, 7063-7066.	13.7	224
29	Metal Nanoparticles Immobilized on Carbon Nanodots as Highly Active Catalysts for Hydrogen Generation from Hydrazine in Aqueous Solution. ChemCatChem, 2015, 7, 526-531.	3.7	36
30	Polycatenationâ€Driven Selfâ€Assembly of Nanoporous Frameworks Based on a 1D Ribbon of Rings: Regular Structural Evolution, Interpenetration Transformation, and Photochemical Modification. Chemistry - A European Journal, 2014, 20, 2488-2495.	3.3	27
31	Functional materials derived from open framework templates/precursors: synthesis and applications. Energy and Environmental Science, 2014, 7, 2071.	30.8	619
32	Photoinduced Bending of a Large Single Crystal of a 1,2â€Bis(4â€pyridyl)ethyleneâ€Based Pyridinium Salt Powered by a [2+2] Cycloaddition. Angewandte Chemie - International Edition, 2013, 52, 6653-6657.	13.8	128
33	Tunable solid-state photoluminescence based on proton-triggered structural transformation of 4,4â€²-bipyridinium derivative. Journal of Materials Chemistry C, 2013, 1, 744-750.	5.5	33
34	Solvent- and anion-controlled photochromism of viologen-based metalâ€“organic hybrid materials. Journal of Materials Chemistry, 2012, 22, 12212.	6.7	145
35	Borromeanâ€Entanglementâ€Driven Assembly of Porous Molecular Architectures with Anionâ€Modified Pore Space. Chemistry - A European Journal, 2012, 18, 1924-1931.	3.3	36
36	Structural diversity of the mixed-ligand system Mn-cpdba-2,2â€²-bpy controlled by temperature. CrystEngComm, 2011, 13, 1550-1556.	2.6	26

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37	Supramolecular isomer-dependent photochromism and emission color tuning of bipyridinium salts. Journal of Materials Chemistry, 2011, 21, 17667.	6.7	55
38	Protonationâ€Triggered Conversion between Singleâ€and Tripleâ€Stranded Helices with a Visible Fluorescence Change. Angewandte Chemie - International Edition, 2011, 50, 1149-1153.	13.8	34
39	pH-induced coordination assembly of mononuclear and dinuclear copper(II) complexes based on a 4,4â€²-bipyridinium analogue. Inorganic Chemistry Communication, 2010, 13, 86-89.	3.9	7
40	Metalâ^'Organogermanate Frameworks Built by Two Kinds of Infinite Geâ^'O Chains with High Thermostability and Luminescent Properties. Inorganic Chemistry, 2010, 49, 10211-10213.	4.0	17
41	Thermally Triggered Reversible Transformation between Parallel Staggered Stacking and Plywood-Like Stacking of 1D Coordination Polymer Chains. Inorganic Chemistry, 2010, 49, 7046-7051.	4.0	18
42	2D self-catenated coordination polymer constructed by triple- and double-helical chains. CrystEngComm, 2010, 12, 1709.	2.6	22