

Jian-Ke Sun

List of Publications by Year in descending order

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42
papers

3,541
citations

218677

26
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265206

42
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43
all docs

43
docs citations

43
times ranked

4796
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional materials derived from open framework templates/precursors: synthesis and applications. <i>Energy and Environmental Science</i> , 2014, 7, 2071.	30.8	619
2	Polymer-Derived Heteroatom-Doped Porous Carbon Materials. <i>Chemical Reviews</i> , 2020, 120, 9363-9419.	47.7	492
3	Encapsulating highly catalytically active metal nanoclusters inside porous organic cages. <i>Nature Catalysis</i> , 2018, 1, 214-220.	34.4	310
4	Poly(ionic liquid) composites. <i>Chemical Society Reviews</i> , 2020, 49, 1726-1755.	38.1	234
5	Toward Homogenization of Heterogeneous Metal Nanoparticle Catalysts with Enhanced Catalytic Performance: Soluble Porous Organic Cage as a Stabilizer and Homogenizer. <i>Journal of the American Chemical Society</i> , 2015, 137, 7063-7066.	13.7	224
6	Bipyridinium derivative-based coordination polymers: From synthesis to materials applications. <i>Coordination Chemistry Reviews</i> , 2019, 378, 533-560.	18.8	205
7	Nanoporous ionic organic networks: from synthesis to materials applications. <i>Chemical Society Reviews</i> , 2016, 45, 6627-6656.	38.1	152
8	Solvent- and anion-controlled photochromism of viologen-based metal-organic hybrid materials. <i>Journal of Materials Chemistry</i> , 2012, 22, 12212.	6.7	145
9	Photoinduced Bending of a Large Single Crystal of a 1,2-Bis(4-pyridyl)ethylene-Based Pyridinium Salt Powered by a [2+2] Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6653-6657.	13.8	128
10	General Synthetic Route toward Highly Dispersed Metal Clusters Enabled by Poly(ionic liquid)s. <i>Journal of the American Chemical Society</i> , 2017, 139, 8971-8976.	13.7	110
11	From covalent-organic frameworks to hierarchically porous B-doped carbons: a molten-salt approach. <i>Journal of Materials Chemistry A</i> , 2016, 4, 4273-4279.	10.3	88
12	Enhancing crystal growth using polyelectrolyte solutions and shear flow. <i>Nature</i> , 2020, 579, 73-79.	27.8	70
13	Supramolecular isomer-dependent photochromism and emission color tuning of bipyridinium salts. <i>Journal of Materials Chemistry</i> , 2011, 21, 17667.	6.7	55
14	Two-Pronged Effect of Warm Solution and Solvent-Vapor Annealing for Efficient and Stable All-Small-Molecule Organic Solar Cells. <i>ACS Energy Letters</i> , 2021, 6, 2898-2906.	17.4	50
15	Hierarchically Porous Organic Cages. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12490-12497.	13.8	43
16	Porous polycarbene-bearing membrane actuator for ultrasensitive weak-acid detection and real-time chemical reaction monitoring. <i>Nature Communications</i> , 2018, 9, 1717.	12.8	42
17	Ionic organic cage-encapsulating phase-transferable metal clusters. <i>Chemical Science</i> , 2019, 10, 1450-1456.	7.4	42
18	A tale of two membranes: from poly (ionic liquid) to metal-organic framework hybrid nanoporous membranes via pseudomorphic replacement. <i>Materials Horizons</i> , 2017, 4, 681-687.	12.2	39

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19	Poly(ionic liquid)s with engineered nanopores for energy and environmental applications. <i>Polymer</i> , 2020, 202, 122640.	3.8	39
20	Accelerating Crystallization of Open Organic Materials by Poly(ionic liquid)s. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22109-22116.	13.8	37
21	Borromean-Entanglement-Driven Assembly of Porous Molecular Architectures with Anion-Modified Pore Space. <i>Chemistry - A European Journal</i> , 2012, 18, 1924-1931.	3.3	36
22	Metal Nanoparticles Immobilized on Carbon Nanodots as Highly Active Catalysts for Hydrogen Generation from Hydrazine in Aqueous Solution. <i>ChemCatChem</i> , 2015, 7, 526-531.	3.7	36
23	Protonation-Triggered Conversion between Single- and Triple-Stranded Helices with a Visible Fluorescence Change. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1149-1153.	13.8	34
24	Tunable solid-state photoluminescence based on proton-triggered structural transformation of 4,4'-bipyridinium derivative. <i>Journal of Materials Chemistry C</i> , 2013, 1, 744-750.	5.5	33
25	Polycatenation-Driven Self-Assembly of Nanoporous Frameworks Based on a 1D Ribbon of Rings: Regular Structural Evolution, Interpenetration Transformation, and Photochemical Modification. <i>Chemistry - A European Journal</i> , 2014, 20, 2488-2495.	3.3	27
26	Structural diversity of the mixed-ligand system Mn-cpdba-2,2'-bpy controlled by temperature. <i>CrystEngComm</i> , 2011, 13, 1550-1556.	2.6	26
27	Dispersed nano-MOFs via a stimuli-responsive biohybrid-system with enhanced photocatalytic performance. <i>Materials Horizons</i> , 2019, 6, 802-809.	12.2	25
28	2D self-catenated coordination polymer constructed by triple- and double-helical chains. <i>CrystEngComm</i> , 2010, 12, 1709.	2.6	22
29	Flexible Viologen-Based Porous Framework Showing X-Ray Induced Photochromism with Single-Crystal-to-Single-Crystal Transformation. <i>Angewandte Chemie</i> , 2017, 129, 14650-14654.	2.0	22
30	Thermally Triggered Reversible Transformation between Parallel Staggered Stacking and Plywood-Like Stacking of 1D Coordination Polymer Chains. <i>Inorganic Chemistry</i> , 2010, 49, 7046-7051.	4.0	18
31	Metal-Organogermanate Frameworks Built by Two Kinds of Infinite Ge-O Chains with High Thermostability and Luminescent Properties. <i>Inorganic Chemistry</i> , 2010, 49, 10211-10213.	4.0	17
32	Polytriazolium poly(ionic liquid) bearing triiodide anions: Synthesis, basic properties and electrochemical behaviors. <i>Polymer</i> , 2017, 124, 246-251.	3.8	16
33	Doped porous carbon nanostructures with N Co O catalytic active sites for efficient electrocatalytic oxygen reduction reaction. <i>Applied Surface Science</i> , 2019, 463, 386-394.	6.1	16
34	Ionic organic cage-encapsulated metal clusters for switchable catalysis. <i>Cell Reports Physical Science</i> , 2021, 2, 100546.	5.6	16
35	Encapsulation of Metal Clusters within Porous Organic Materials: From Synthesis to Catalysis Applications. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	16
36	Three birds, one stone - photo-/piezo-/chemochromism in one conjugated nanoporous ionic organic network. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9065-9070.	5.5	15

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37	Electrostatically cooperative host-in-host of metal cluster M^n , ionic organic cages in nanopores for enhanced catalysis. <i>Nature Communications</i> , 2022, 13, 1471.	12.8	14
38	pH-induced coordination assembly of mononuclear and dinuclear copper(II) complexes based on a 4,4'-bipyridinium analogue. <i>Inorganic Chemistry Communication</i> , 2010, 13, 86-89.	3.9	7
39	Hierarchically Porous Organic Cages. <i>Angewandte Chemie</i> , 2021, 133, 12598-12605.	2.0	7
40	Nanoporous Cationic Organic Cages for Trapping Heavy Metal Oxyanions. <i>ACS Applied Nano Materials</i> , 2022, 5, 890-898.	5.0	6
41	Hierarchically Porous Poly(ionic liquid) @ Organic Cage Composite Membrane for Efficient Iodine Capture. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	4
42	Porous Organic Cage Nanostructures for Construction of Complex Sequential Reaction Networks. <i>ACS Applied Nano Materials</i> , 2022, 5, 7974-7982.	5.0	4