Jian Zhang

List of Publications by Year
in descending order

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101	11,975	34016	30010
papers	citations	52 h-index	103 g-index

109	109	109	14938
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tuning Photoexcited Charge Transfer in Imine-Linked Two-Dimensional Covalent Organic Frameworks. Journal of Physical Chemistry Letters, 2022, 13, 1398-1405.	2.1	16
2	Induction of Chirality in Boron Imidazolate Frameworks: The Structure-Directing Effects of Substituents. Inorganic Chemistry, 2022, 61, 6861-6868.	1.9	5
3	Intermolecular Interaction and Cooperativity in an Fe(II) Spin Crossover Molecular Thin Film System. Journal of Physics Condensed Matter, 2022, 34, .	0.7	3
4	Impact of Ï€-Conjugation Length on the Excited-State Dynamics of Star-Shaped Carbazole-Ï€-Triazine Organic Chromophores. Journal of Physical Chemistry A, 2022, 126, 3291-3300.	1.1	2
5	Covalent Organic Frameworks with Irreversible Linkages via Reductive Cyclization of Imines. Journal of the American Chemical Society, 2022, 144, 9827-9835.	6.6	39
6	Optimizing Photodetectors in Two-Dimensional Metal-Metalloporphyrinic Framework Thin Films. ACS Applied Materials & Interfaces, 2022, 14, 33548-33554.	4.0	13
7	Twoâ€Dimensional Covalentâ€Organic Frameworks for Photocatalysis: The Critical Roles of Building Block and Linkage. Solar Rrl, 2021, 5, 2000458.	3.1	40
8	Conjugation- and Aggregation-Directed Design of Covalent Organic Frameworks as White-Light-Emitting Diodes. Journal of the American Chemical Society, 2021, 143, 1061-1068.	6.6	75
9	Nonvolatile Voltage Controlled Molecular Spin-State Switching for Memory Applications. Magnetochemistry, 2021, 7, 37.	1.0	29
10	Polymerizable metal-organic frameworks for the preparation of mixed matrix membranes with enhanced interfacial compatibility. IScience, 2021, 24, 102560.	1.9	7
11	Creation and Reconstruction of Thermochromic Au Nanorods with Surface Concavity. Journal of the American Chemical Society, 2021, 143, 15791-15799.	6.6	14
12	Photoinduced Charge Transport in Conductive Metal Organic Frameworks. , 2021, , .		0
13	Chemically Stable Polyarylether-Based Metallophthalocyanine Frameworks with High Carrier Mobilities for Capacitive Energy Storage. Journal of the American Chemical Society, 2021, 143, 17701-17707.	6.6	42
14	Magnetic Field Perturbations to a Soft X-ray-Activated Fe (II) Molecular Spin State Transition. Magnetochemistry, 2021, 7, 135.	1.0	6
15	Symmetry-Guided Synthesis of N,Nâ€²-Bicarbazole and Porphyrin-Based Mixed-Ligand Metalâ€“Organic Frameworks: Light Harvesting and Energy Transfer. Journal of the American Chemical Society, 2021, 143, 20411-20418.	6.6	37
16	Manipulation of the molecular spin crossover transition of Fe(H2B(pz)2)2(bipy) by addition of polar molecules. Journal of Physics Condensed Matter, 2020, 32, 034001.	0.7	4
17	Tuning Internal Strain in Metalâ€“Organic Frameworks via Vapor Phase Infiltration for CO₂ Reduction. Angewandte Chemie - International Edition, 2020, 59, 4572-4580.	7.2	42
18	Unravelling a long-lived ligand-to-metal cluster charge transfer state in Ceâ€“TCPP metal organic frameworks. Chemical Communications, 2020, 56, 13971-13974.	2.2	20

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19	Doubly Interpenetrated Metalâ€“Organic Framework of pcu Topology for Selective Separation of Propylene from Propane. ACS Applied Materials & Interfaces, 2020, 12, 48712-48717.	4.0	23
20	Direct Evidence of Photoinduced Charge Transport Mechanism in 2D Conductive Metal Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 21050-21058.	6.6	76
21	Resistive Switching Memory Performance of Two-Dimensional Polyimide Covalent Organic Framework Films. ACS Applied Materials & Interfaces, 2020, 12, 51837-51845.	4.0	57
22	Chemically Robust Covalent Organic Frameworks: Progress and Perspective. Matter, 2020, 3, 1507-1540.	5.0	94
23	Microporous Hydrogen-Bonded Organic Framework for Highly Efficient Turn-Up Fluorescent Sensing of Aniline. Journal of the American Chemical Society, 2020, 142, 12478-12485.	6.6	201
24	Pyrazine-Fused Porous Graphitic Framework-Based Mixed Matrix Membranes for Enhanced Gas Separations. ACS Applied Materials & Interfaces, 2020, 12, 16922-16929.	4.0	19
25	Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. Advanced Materials, 2020, 32, e1907995.	11.1	118
26	Expeditious synthesis of covalent organic frameworks: a review. Journal of Materials Chemistry A, 2020, 8, 16045-16060.	5.2	97
27	Dynamic Covalent Synthesis of Crystalline Porous Graphitic Frameworks. CheM, 2020, 6, 933-944.	5.8	123
28	A novel mesoporous hydrogen-bonded organic framework with high porosity and stability. Chemical Communications, 2020, 56, 66-69.	2.2	76
29	Selective Excited-State Dynamics in a Unique Set of Rationally Designed Ni Porphyrins. Journal of Physical Chemistry C, 2019, 123, 17994-18000.	1.5	8
30	Nonvolatile voltage controlled molecular spin state switching. Applied Physics Letters, 2019, 114, .	1.5	50
31	Tunable spin-state bistability in a spin crossover molecular complex. Journal of Physics Condensed Matter, 2019, 31, 315401.	0.7	18
32	Enhancing the Bioaccessibility of Phytosterols Using Nanoporous Corn and Wheat Starch Bioaerogels. European Journal of Lipid Science and Technology, 2019, 121, 1700229.	1.0	26
33	Tuning a layer to a three-dimensional cobalt-tris(4â€²-carboxybiphenyl)amine framework by introducing potassium ions. Inorganic Chemistry Communication, 2018, 90, 65-68.	1.8	5
34	The Electronic Structure Signature of the Spin Cross-Over Transition of [Co(dpzca)₂]. Zeitschrift Fur Physikalische Chemie, 2018, 232, 445-458.	1.4	3
35	Electron Transfer and Geometric Conversion of Coâ€“NO Moiety in Saddled Porphyrins: Implications for Trigger Role of Tetrapyrrole Distortion. Inorganic Chemistry, 2018, 57, 277-287.	1.9	12
36	Metal-Organic Frameworks for Photocatalysis. Series on Chemistry, Energy and the Environment, 2018, , 519-580.	0.3	0

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37	Use of aligned triphenylamine-based radicals in a porous framework for promoting photocatalysis. Applied Catalysis B: Environmental, 2018, 221, 664-669.	10.8	35
38	Geometric deconstruction of core and electron activation of a Ï€-system in a series of deformed porphyrins: mimics of heme. Organic and Biomolecular Chemistry, 2018, 16, 7725-7736.	1.5	12
39	Donorâ€“Acceptor Fluorophores for Energy-Transfer-Mediated Photocatalysis. Journal of the American Chemical Society, 2018, 140, 13719-13725.	6.6	174
40	2D Covalent Organic Frameworks as Intrinsic Photocatalysts for Visible Light-Driven CO₂ Reduction. Journal of the American Chemical Society, 2018, 140, 14614-14618.	6.6	461
41	Topology-Guided Stepwise Insertion of Three Secondary Linkers in Zirconium Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 7710-7715.	6.6	81
42	Perturbing the spin crossover transition activation energies in Fe(H2B(pz)2)2(bipy) with zwitterionic additions. Journal of Physics Condensed Matter, 2018, 30, 305503.	0.7	7
43	Conversion of Lignin Models by Photoredox Catalysis. ChemSusChem, 2018, 11, 3071-3080.	3.6	39
44	Carbazoleâ€“triazine based donorâ€“acceptor porous organic frameworks for efficient visible-light photocatalytic aerobic oxidation reactions. Journal of Materials Chemistry A, 2018, 6, 15154-15161.	5.2	59
45	Acid and Base Resistant Zirconium Polyphenolateâ€Metalloporphyrin Scaffolds for Efficient CO₂ Photoreduction. Advanced Materials, 2018, 30, 1704388.	11.1	184
46	A coreâ€“shell metalâ€“organic-framework (MOF)-based smart nanocomposite for efficient NIR/H₂O₂-responsive photodynamic therapy against hypoxic tumor cells. Journal of Materials Chemistry B, 2017, 5, 2390-2394.	2.9	83
47	Fine Tuning the Redox Potentials of Carbazolic Porous Organic Frameworks for Visible-Light Photoredox Catalytic Degradation of Lignin Î²-O-4 Models. ACS Catalysis, 2017, 7, 5062-5070.	5.5	128
48	Visible-Light-Driven Self-Hydrogen Transfer Hydrogenolysis of Lignin Models and Extracts into Phenolic Products. ACS Catalysis, 2017, 7, 4571-4580.	5.5	191
49	Self-Supported BINOL-Derived Phosphoric Acid Based on a Chiral Carbazolic Porous Framework. Organic Letters, 2017, 19, 6072-6075.	2.4	24
50	Hydrogen bond-directed encapsulation of metalloporphyrin into the microcages of zeolite imidazolate frameworks for synergistic biomimetic catalysis. Catalysis Science and Technology, 2016, 6, 5848-5855.	2.1	16
51	Evaluating topologically diverse metalâ€“organic frameworks for cryo-adsorbed hydrogen storage. Energy and Environmental Science, 2016, 9, 3279-3289.	15.6	231
52	Photocatalytic Oxidationâ€“Hydrogenolysis of Lignin Î²-O-4 Models via a Dual Light Wavelength Switching Strategy. ACS Catalysis, 2016, 6, 7716-7721.	5.5	165
53	â€œÏ€-Holeâ‹¯Ï€â€•Interaction Promoted Photocatalytic Hydrodefluorination via Inner-Sphere Electron Transfer. Journal of the American Chemical Society, 2016, 138, 15805-15808.	6.6	61
54	Aerobic Oxidation of Olefins and Lignin Model Compounds Using Photogenerated Phthalimide-N-oxyl Radical. Journal of Organic Chemistry, 2016, 81, 9131-9137.	1.7	59

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55	A New Approach to Non-Coordinating Anions: Lewis Acid Enhancement of Porphyrin Metal Centers in a Zwitterionic Metalâ€“Organic Framework. Journal of the American Chemical Society, 2016, 138, 10293-10298.	6.6	85
56	Highly Porous Zirconium Metalâ€“Organic Frameworks with Î²-UH₃-like Topology Based on Elongated Tetrahedral Linkers. Journal of the American Chemical Society, 2016, 138, 8380-8383.	6.6	76
57	Donorâ€“Acceptor Fluorophores for Visible-Light-Promoted Organic Synthesis: Photoredox/Ni Dual Catalytic C(sp³)â€“C(sp²) Cross-Coupling. ACS Catalysis, 2016, 6, 873-877.	5.5	638
58	Carbazolic Porous Organic Framework as an Efficient, Metal-Free Visible-Light Photocatalyst for Organic Synthesis. ACS Catalysis, 2015, 5, 2250-2254.	5.5	234
59	Porphyrin-Metalation-Mediated Tuning of Photoredox Catalytic Properties in Metalâ€“Organic Frameworks. ACS Catalysis, 2015, 5, 5283-5291.	5.5	212
60	Facile fabrication of color-tunable and white light emitting nano-composite films based on layered rare-earth hydroxides. Journal of Materials Chemistry C, 2015, 3, 2326-2333.	2.7	64
61	Synthesis of two metal-porphyrin frameworks assembled from porphyrin building motifs, 5, 10, 15, 20-tetrapyridylporphyrin and their base catalyzed property. Inorganic Chemistry Communication, 2015, 61, 100-104.	1.8	12
62	Facile synthesis of azo-linked porous organic frameworks via reductive homocoupling for selective CO₂ capture. Journal of Materials Chemistry A, 2014, 2, 13831-13834.	5.2	122
63	Self-assembly of biaxial discorectangular lead carbonate nanosheets into stacked ribbons studied by SAXS and HAADF-STEM tomographic tilt series. Soft Matter, 2014, 10, 9511-9522.	1.2	5
64	Direct Xâ€ray Observation of Trapped CO₂ in a Predesigned Porphyrinic Metalâ€“Organic Framework. Chemistry - A European Journal, 2014, 20, 7632-7637.	1.7	39
65	Facile Control of the Charge Density and Photocatalytic Activity of an Anionic Indium Porphyrin Framework via in Situ Metalation. Journal of the American Chemical Society, 2014, 136, 15881-15884.	6.6	144
66	Porphyrinic porous organic frameworks: preparation and post-synthetic modification via demetallationâ€“remetallation. Journal of Materials Chemistry A, 2014, 2, 14876-14882.	5.2	34
67	Fabrication, gradient extraction and surface polarity-dependent photoluminescence of cow milk-derived carbon dots. RSC Advances, 2014, 4, 58084-58089.	1.7	31
68	Importance of the DNA â€œbondâ€•in programmable nanoparticle crystallization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14995-15000.	3.3	55
69	Porosity Enhancement of Carbazolic Porous Organic Frameworks Using Dendritic Building Blocks for Gas Storage and Separation. Chemistry of Materials, 2014, 26, 4023-4029.	3.2	160
70	Recent Advances in Ionic Metal-Organic Frameworks: Design, Synthesis, and Application. Current Organic Chemistry, 2014, 18, 1973-2001.	0.9	20
71	Plasmonâ€Mediated Synthesis of Silver Cubes with Unusual Twinning Structures Using Short Wavelength Excitation. Small, 2013, 9, 1947-1953.	5.2	61
72	A â€œpillar-freeâ€• highly porous metalloporphyrinic framework exhibiting eclipsed porphyrin arrays. Chemical Communications, 2013, 49, 2828.	2.2	47

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73	Assembly of reconfigurable one-dimensional colloidal superlattices due to a synergy of fundamental nanoscale forces. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2240-2245.	3.3	144
74	Defining Rules for the Shape Evolution of Gold Nanoparticles. Journal of the American Chemical Society, 2012, 134, 14542-14554.	6.6	609
75	Stepwise Evolution of Spherical Seeds into 20-Fold Twinned Icosahedra. Science, 2012, 337, 954-957.	6.0	187
76	Correlating the structure and localized surface plasmon resonance of single silver right bipyramids. Nanotechnology, 2012, 23, 444005.	1.3	51
77	Plasmon Length: A Universal Parameter to Describe Size Effects in Gold Nanoparticles. Journal of Physical Chemistry Letters, 2012, 3, 1479-1483.	2.1	191
78	Pyridineâ€Based Lanthanide Complexes Combining MRI and NIR Luminescence Activities. Chemistry - A European Journal, 2012, 18, 1419-1431.	1.7	89
79	Synthesis and Isolation of {110}-Faceted Gold Bipyramids and Rhombic Dodecahedra. Journal of the American Chemical Society, 2011, 133, 6170-6173.	6.6	142
80	Bottom-Up Synthesis of Gold Octahedra with Tailorable Hollow Features. Journal of the American Chemical Society, 2011, 133, 10414-10417.	6.6	69
81	Shape Control of Gold Nanoparticles by Silver Underpotential Deposition. Nano Letters, 2011, 11, 3394-3398.	4.5	341
82	Synthesis of Silver Nanorods by Low Energy Excitation of Spherical Plasmonic Seeds. Nano Letters, 2011, 11, 2495-2498.	4.5	192
83	Plasmonâ€Mediated Synthesis of Heterometallic Nanorods and Icosahedra. Angewandte Chemie - International Edition, 2011, 50, 3543-3547.	7.2	89
84	Concave Cubic Gold Nanocrystals with High-Index Facets. Journal of the American Chemical Society, 2010, 132, 14012-14014.	6.6	513
85	DNA-nanoparticle superlattices formed from anisotropic building blocks. Nature Materials, 2010, 9, 913-917.	13.3	596
86	Photomediated Synthesis of Silver Triangular Bipyramids and Prisms: The Effect of pH and BSPP. Journal of the American Chemical Society, 2010, 132, 12502-12510.	6.6	176
87	Nanopod Formation through Gold Nanoparticle Templated and Catalyzed Cross-linking of Polymers Bearing Pendant Propargyl Ethers. Journal of the American Chemical Society, 2010, 132, 15151-15153.	6.6	24
88	Plasmonâ€Mediated Synthesis of Silver Triangular Bipyramids. Angewandte Chemie - International Edition, 2009, 48, 7787-7791.	7.2	151
89	Multiroute Synthesis of Porous Anionic Frameworks and Size-Tunable Extraframework Organic Cation-Controlled Gas Sorption Properties. Journal of the American Chemical Society, 2009, 131, 16027-16029.	6.6	247
90	Azuleneâ€Moietyâ€Based Ligand for the Efficient Sensitization of Four Nearâ€Infrared Luminescent Lanthanide Cations: Nd³⁺, Er³⁺, Tm³⁺, and Yb³⁺. Chemistry - A European Journal, 2008, 14, 1264-1272.	1.7	93

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91	Multiple Functions of Ionic Liquids in the Synthesis of Threeâ€Dimensional Lowâ€Connectivity Homochiral and Achiral Frameworks. Angewandte Chemie - International Edition, 2008, 47, 5434-5437.	7.2	187
92	Pyridine-based lanthanide complexes: towards bimodal agents operating as near infrared luminescent and MRI reporters. Chemical Communications, 2008, , 6591.	2.2	132
93	Synthesis and Structural Properties of Lanthanide Complexes Formed with Tropolonate Ligands. Inorganic Chemistry, 2007, 46, 6473-6482.	1.9	31
94	Stabilization of Platinum Oxygen-Reduction Electrocatalysts Using Gold Clusters. Science, 2007, 315, 220-222.	6.0	1,709
95	A Strategy to Protect and Sensitize Near-Infrared Luminescent Nd³⁺ and Yb³⁺:â€‰Organic Tropolonate Ligands for the Sensitization of Ln³⁺-Doped NaYF₄ Nanocrystals. Journal of the American Chemical Society, 2007, 129, 14834-14835.	6.6	136
96	Preparation, crystal structure and luminescent properties of the 3-D netlike supramolecular lanthanide picrate complexes with 2,2â€²-[1,2-phenylenebis(oxy)]bis(N-benzylacetamide). Inorganica Chimica Acta, 2006, 359, 1207-1214.	1.2	16
97	Preparation, properties and structure of uncommon (10,3)-a netted rare earth complexes with an amide type tripodal ligand. Polyhedron, 2005, 24, 1160-1166.	1.0	32
98	Crystal structures and luminescent properties of the lanthanide picrate complexes with an amide-type tripodal ligand. Inorganic Chemistry Communication, 2005, 8, 1018-1021.	1.8	24
99	Sensitization of Near-Infrared-Emitting Lanthanide Cations in Solution by Tropolonate Ligands. Angewandte Chemie - International Edition, 2005, 44, 2508-2512.	7.2	220
100	2,4-Bis[2-(benzylaminocarbonyl)phenoxymethyl]-1,3,5-trimethylbenzene. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, o2489-o2490.	0.2	0
101	Novel three-dimensional network generated from the reaction of Eu(NO3)3 with an amide type tripodal ligand. Dalton Transactions RSC, 2002, , 832.	2.3	39