

Jian Zhang

List of Publications by Year in descending order

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101
papers

11,975
citations

34016

52
h-index

30010

103
g-index

109
all docs

109
docs citations

109
times ranked

14938
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilization of Platinum Oxygen-Reduction Electrocatalysts Using Gold Clusters. <i>Science</i> , 2007, 315, 220-222.	6.0	1,709
2	Donor-Acceptor Fluorophores for Visible-Light-Promoted Organic Synthesis: Photoredox/Ni Dual Catalytic C(sp ³)-C(sp ²) Cross-Coupling. <i>ACS Catalysis</i> , 2016, 6, 873-877.	5.5	638
3	Defining Rules for the Shape Evolution of Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2012, 134, 14542-14554.	6.6	609
4	DNA-nanoparticle superlattices formed from anisotropic building blocks. <i>Nature Materials</i> , 2010, 9, 913-917.	13.3	596
5	Concave Cubic Gold Nanocrystals with High-Index Facets. <i>Journal of the American Chemical Society</i> , 2010, 132, 14012-14014.	6.6	513
6	2D Covalent Organic Frameworks as Intrinsic Photocatalysts for Visible Light-Driven CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2018, 140, 14614-14618.	6.6	461
7	Shape Control of Gold Nanoparticles by Silver Underpotential Deposition. <i>Nano Letters</i> , 2011, 11, 3394-3398.	4.5	341
8	Multiroute Synthesis of Porous Anionic Frameworks and Size-Tunable Extraframework Organic Cation-Controlled Gas Sorption Properties. <i>Journal of the American Chemical Society</i> , 2009, 131, 16027-16029.	6.6	247
9	Carbazolic Porous Organic Framework as an Efficient, Metal-Free Visible-Light Photocatalyst for Organic Synthesis. <i>ACS Catalysis</i> , 2015, 5, 2250-2254.	5.5	234
10	Evaluating topologically diverse metal-organic frameworks for cryo-adsorbed hydrogen storage. <i>Energy and Environmental Science</i> , 2016, 9, 3279-3289.	15.6	231
11	Sensitization of Near-Infrared-Emitting Lanthanide Cations in Solution by Tropolonate Ligands. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2508-2512.	7.2	220
12	Porphyrin-Metalation-Mediated Tuning of Photoredox Catalytic Properties in Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2015, 5, 5283-5291.	5.5	212
13	Microporous Hydrogen-Bonded Organic Framework for Highly Efficient Turn-Up Fluorescent Sensing of Aniline. <i>Journal of the American Chemical Society</i> , 2020, 142, 12478-12485.	6.6	201
14	Synthesis of Silver Nanorods by Low Energy Excitation of Spherical Plasmonic Seeds. <i>Nano Letters</i> , 2011, 11, 2495-2498.	4.5	192
15	Plasmon Length: A Universal Parameter to Describe Size Effects in Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1479-1483.	2.1	191
16	Visible-Light-Driven Self-Hydrogen Transfer Hydrogenolysis of Lignin Models and Extracts into Phenolic Products. <i>ACS Catalysis</i> , 2017, 7, 4571-4580.	5.5	191
17	Multiple Functions of Ionic Liquids in the Synthesis of Three-Dimensional Low-Connectivity Homochiral and Achiral Frameworks. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5434-5437.	7.2	187
18	Stepwise Evolution of Spherical Seeds into 20-Fold Twinned Icosahedra. <i>Science</i> , 2012, 337, 954-957.	6.0	187

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19	Acid and Base Resistant Zirconium Polyphenolate-Metalloporphyrin Scaffolds for Efficient CO ₂ Photoreduction. <i>Advanced Materials</i> , 2018, 30, 1704388.	11.1	184
20	Photomediated Synthesis of Silver Triangular Bipyramids and Prisms: The Effect of pH and BSPP. <i>Journal of the American Chemical Society</i> , 2010, 132, 12502-12510.	6.6	176
21	Donor-Acceptor Fluorophores for Energy-Transfer-Mediated Photocatalysis. <i>Journal of the American Chemical Society</i> , 2018, 140, 13719-13725.	6.6	174
22	Photocatalytic Oxidation-Hydrogenolysis of Lignin Î ² -O-4 Models via a Dual Light Wavelength Switching Strategy. <i>ACS Catalysis</i> , 2016, 6, 7716-7721.	5.5	165
23	Porosity Enhancement of Carbazolic Porous Organic Frameworks Using Dendritic Building Blocks for Gas Storage and Separation. <i>Chemistry of Materials</i> , 2014, 26, 4023-4029.	3.2	160
24	Plasmon-Mediated Synthesis of Silver Triangular Bipyramids. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 7787-7791.	7.2	151
25	Assembly of reconfigurable one-dimensional colloidal superlattices due to a synergy of fundamental nanoscale forces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2240-2245.	3.3	144
26	Facile Control of the Charge Density and Photocatalytic Activity of an Anionic Indium Porphyrin Framework via in Situ Metalation. <i>Journal of the American Chemical Society</i> , 2014, 136, 15881-15884.	6.6	144
27	Synthesis and Isolation of {110}-Faceted Gold Bipyramids and Rhombic Dodecahedra. <i>Journal of the American Chemical Society</i> , 2011, 133, 6170-6173.	6.6	142
28	A Strategy to Protect and Sensitize Near-Infrared Luminescent Nd ³⁺ and Yb ³⁺ : Organic Tropolonate Ligands for the Sensitization of Ln ³⁺ -Doped NaYF ₄ Nanocrystals. <i>Journal of the American Chemical Society</i> , 2007, 129, 14834-14835.	6.6	136
29	Pyridine-based lanthanide complexes: towards bimodal agents operating as near infrared luminescent and MRI reporters. <i>Chemical Communications</i> , 2008, , 6591.	2.2	132
30	Fine Tuning the Redox Potentials of Carbazolic Porous Organic Frameworks for Visible-Light Photoredox Catalytic Degradation of Lignin Î ² -O-4 Models. <i>ACS Catalysis</i> , 2017, 7, 5062-5070.	5.5	128
31	Dynamic Covalent Synthesis of Crystalline Porous Graphitic Frameworks. <i>CheM</i> , 2020, 6, 933-944.	5.8	123
32	Facile synthesis of azo-linked porous organic frameworks via reductive homocoupling for selective CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13831-13834.	5.2	122
33	Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. <i>Advanced Materials</i> , 2020, 32, e1907995.	11.1	118
34	Expeditious synthesis of covalent organic frameworks: a review. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16045-16060.	5.2	97
35	Chemically Robust Covalent Organic Frameworks: Progress and Perspective. <i>Matter</i> , 2020, 3, 1507-1540.	5.0	94
36	Azulene-Moiety-Based Ligand for the Efficient Sensitization of Four Near-Infrared Luminescent Lanthanide Cations: Nd ³⁺ , Er ³⁺ , Tm ³⁺ , and Yb ³⁺ . <i>Chemistry - A European Journal</i> , 2008, 14, 1264-1272.	1.7	93

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37	Plasmon-Mediated Synthesis of Heterometallic Nanorods and Icosahedra. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3543-3547.	7.2	89
38	Pyridine-Based Lanthanide Complexes Combining MRI and NIR Luminescence Activities. <i>Chemistry - A European Journal</i> , 2012, 18, 1419-1431.	1.7	89
39	A New Approach to Non-Coordinating Anions: Lewis Acid Enhancement of Porphyrin Metal Centers in a Zwitterionic Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2016, 138, 10293-10298.	6.6	85
40	A core-shell metal-organic-framework (MOF)-based smart nanocomposite for efficient NIR/H ₂ O ₂ -responsive photodynamic therapy against hypoxic tumor cells. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2390-2394.	2.9	83
41	Topology-Guided Stepwise Insertion of Three Secondary Linkers in Zirconium Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 7710-7715.	6.6	81
42	Highly Porous Zirconium Metal-Organic Frameworks with UH ₃ -like Topology Based on Elongated Tetrahedral Linkers. <i>Journal of the American Chemical Society</i> , 2016, 138, 8380-8383.	6.6	76
43	Direct Evidence of Photoinduced Charge Transport Mechanism in 2D Conductive Metal Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 21050-21058.	6.6	76
44	A novel mesoporous hydrogen-bonded organic framework with high porosity and stability. <i>Chemical Communications</i> , 2020, 56, 66-69.	2.2	76
45	Conjugation- and Aggregation-Directed Design of Covalent Organic Frameworks as White-Light-Emitting Diodes. <i>Journal of the American Chemical Society</i> , 2021, 143, 1061-1068.	6.6	75
46	Bottom-Up Synthesis of Gold Octahedra with Tailorable Hollow Features. <i>Journal of the American Chemical Society</i> , 2011, 133, 10414-10417.	6.6	69
47	Facile fabrication of color-tunable and white light emitting nano-composite films based on layered rare-earth hydroxides. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2326-2333.	2.7	64
48	Plasmon-Mediated Synthesis of Silver Cubes with Unusual Twinning Structures Using Short Wavelength Excitation. <i>Small</i> , 2013, 9, 1947-1953.	5.2	61
49	σ-Hole-π Interaction Promoted Photocatalytic Hydrodefluorination via Inner-Sphere Electron Transfer. <i>Journal of the American Chemical Society</i> , 2016, 138, 15805-15808.	6.6	61
50	Aerobic Oxidation of Olefins and Lignin Model Compounds Using Photogenerated Phthalimide-N-oxyl Radical. <i>Journal of Organic Chemistry</i> , 2016, 81, 9131-9137.	1.7	59
51	Carbazole-triazine based donor-acceptor porous organic frameworks for efficient visible-light photocatalytic aerobic oxidation reactions. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15154-15161.	5.2	59
52	Resistive Switching Memory Performance of Two-Dimensional Polyimide Covalent Organic Framework Films. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51837-51845.	4.0	57
53	Importance of the DNA bond-in programmable nanoparticle crystallization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14995-15000.	3.3	55
54	Correlating the structure and localized surface plasmon resonance of single silver right bipyramids. <i>Nanotechnology</i> , 2012, 23, 444005.	1.3	51

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55	Nonvolatile voltage controlled molecular spin state switching. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	50
56	A "pillar-free", highly porous metalloporphyrinic framework exhibiting eclipsed porphyrin arrays. <i>Chemical Communications</i> , 2013, 49, 2828.	2.2	47
57	Tuning Internal Strain in Metal-Organic Frameworks via Vapor Phase Infiltration for CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4572-4580.	7.2	42
58	Chemically Stable Polyarylether-Based Metallophthalocyanine Frameworks with High Carrier Mobilities for Capacitive Energy Storage. <i>Journal of the American Chemical Society</i> , 2021, 143, 17701-17707.	6.6	42
59	Two-Dimensional Covalent-Organic Frameworks for Photocatalysis: The Critical Roles of Building Block and Linkage. <i>Solar Rrl</i> , 2021, 5, 2000458.	3.1	40
60	Novel three-dimensional network generated from the reaction of Eu(NO ₃) ₃ with an amide type tripodal ligand. <i>Dalton Transactions RSC</i> , 2002, , 832.	2.3	39
61	Direct X-ray Observation of Trapped CO ₂ in a Predesigned Porphyrinic Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2014, 20, 7632-7637.	1.7	39
62	Conversion of Lignin Models by Photoredox Catalysis. <i>ChemSusChem</i> , 2018, 11, 3071-3080.	3.6	39
63	Covalent Organic Frameworks with Irreversible Linkages via Reductive Cyclization of Imines. <i>Journal of the American Chemical Society</i> , 2022, 144, 9827-9835.	6.6	39
64	Symmetry-Guided Synthesis of <i>N,N</i> -Bicarbazole and Porphyrin-Based Mixed-Ligand Metal-Organic Frameworks: Light Harvesting and Energy Transfer. <i>Journal of the American Chemical Society</i> , 2021, 143, 20411-20418.	6.6	37
65	Use of aligned triphenylamine-based radicals in a porous framework for promoting photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2018, 221, 664-669.	10.8	35
66	Porphyrinic porous organic frameworks: preparation and post-synthetic modification via demetallation-remetallation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14876-14882.	5.2	34
67	Preparation, properties and structure of uncommon (10,3)-a netted rare earth complexes with an amide type tripodal ligand. <i>Polyhedron</i> , 2005, 24, 1160-1166.	1.0	32
68	Synthesis and Structural Properties of Lanthanide Complexes Formed with Tropolonate Ligands. <i>Inorganic Chemistry</i> , 2007, 46, 6473-6482.	1.9	31
69	Fabrication, gradient extraction and surface polarity-dependent photoluminescence of cow milk-derived carbon dots. <i>RSC Advances</i> , 2014, 4, 58084-58089.	1.7	31
70	Nonvolatile Voltage Controlled Molecular Spin-State Switching for Memory Applications. <i>Magnetochemistry</i> , 2021, 7, 37.	1.0	29
71	Enhancing the Bioaccessibility of Phytosterols Using Nanoporous Corn and Wheat Starch Bioaerogels. <i>European Journal of Lipid Science and Technology</i> , 2019, 121, 1700229.	1.0	26
72	Crystal structures and luminescent properties of the lanthanide picrate complexes with an amide-type tripodal ligand. <i>Inorganic Chemistry Communication</i> , 2005, 8, 1018-1021.	1.8	24

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73	Nanopod Formation through Gold Nanoparticle Templated and Catalyzed Cross-linking of Polymers Bearing Pendant Propargyl Ethers. <i>Journal of the American Chemical Society</i> , 2010, 132, 15151-15153.	6.6	24
74	Self-Supported BINOL-Derived Phosphoric Acid Based on a Chiral Carbazolic Porous Framework. <i>Organic Letters</i> , 2017, 19, 6072-6075.	2.4	24
75	Doubly Interpenetrated Metal-Organic Framework of pcu Topology for Selective Separation of Propylene from Propane. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48712-48717.	4.0	23
76	Unravelling a long-lived ligand-to-metal cluster charge transfer state in Ce-TCPP metal organic frameworks. <i>Chemical Communications</i> , 2020, 56, 13971-13974.	2.2	20
77	Recent Advances in Ionic Metal-Organic Frameworks: Design, Synthesis, and Application. <i>Current Organic Chemistry</i> , 2014, 18, 1973-2001.	0.9	20
78	Pyrazine-Fused Porous Graphitic Framework-Based Mixed Matrix Membranes for Enhanced Gas Separations. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 16922-16929.	4.0	19
79	Tunable spin-state bistability in a spin crossover molecular complex. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 315401.	0.7	18
80	Preparation, crystal structure and luminescent properties of the 3-D netlike supramolecular lanthanide picrate complexes with 2,2'-[1,2-phenylenebis(oxy)]bis(N-benzylacetamide). <i>Inorganica Chimica Acta</i> , 2006, 359, 1207-1214.	1.2	16
81	Hydrogen bond-directed encapsulation of metalloporphyrin into the microcages of zeolite imidazolate frameworks for synergistic biomimetic catalysis. <i>Catalysis Science and Technology</i> , 2016, 6, 5848-5855.	2.1	16
82	Tuning Photoexcited Charge Transfer in Imine-Linked Two-Dimensional Covalent Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1398-1405.	2.1	16
83	Creation and Reconstruction of Thermo-chromic Au Nanorods with Surface Concavity. <i>Journal of the American Chemical Society</i> , 2021, 143, 15791-15799.	6.6	14
84	Optimizing Photodetectors in Two-Dimensional Metal-Metalloporphyrinic Framework Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33548-33554.	4.0	13
85	Synthesis of two metal-porphyrin frameworks assembled from porphyrin building motifs, 5, 10, 15, 20-tetrapyrrolylporphyrin and their base catalyzed property. <i>Inorganic Chemistry Communication</i> , 2015, 61, 100-104.	1.8	12
86	Electron Transfer and Geometric Conversion of Co-NO Moiety in Saddled Porphyrins: Implications for Trigger Role of Tetrapyrrole Distortion. <i>Inorganic Chemistry</i> , 2018, 57, 277-287.	1.9	12
87	Geometric deconstruction of core and electron activation of a π -system in a series of deformed porphyrins: mimics of heme. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 7725-7736.	1.5	12
88	Selective Excited-State Dynamics in a Unique Set of Rationally Designed Ni Porphyrins. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17994-18000.	1.5	8
89	Perturbing the spin crossover transition activation energies in $\text{Fe}(\text{H}_2\text{B}(\text{pz})_2)_2(\text{bipy})$ with zwitterionic additions. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 305503.	0.7	7
90	Polymerizable metal-organic frameworks for the preparation of mixed matrix membranes with enhanced interfacial compatibility. <i>IScience</i> , 2021, 24, 102560.	1.9	7

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91	Magnetic Field Perturbations to a Soft X-ray-Activated Fe (II) Molecular Spin State Transition. <i>Magnetochemistry</i> , 2021, 7, 135.	1.0	6
92	Self-assembly of biaxial discorctangular lead carbonate nanosheets into stacked ribbons studied by SAXS and HAADF-STEM tomographic tilt series. <i>Soft Matter</i> , 2014, 10, 9511-9522.	1.2	5
93	Tuning a layer to a three-dimensional cobalt-tris(4- <i>carboxybiphenyl</i>)amine framework by introducing potassium ions. <i>Inorganic Chemistry Communication</i> , 2018, 90, 65-68.	1.8	5
94	Induction of Chirality in Boron Imidazolate Frameworks: The Structure-Directing Effects of Substituents. <i>Inorganic Chemistry</i> , 2022, 61, 6861-6868.	1.9	5
95	Manipulation of the molecular spin crossover transition of Fe(H ₂ B(pz) ₂) ₂ (bipy) by addition of polar molecules. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 034001.	0.7	4
96	The Electronic Structure Signature of the Spin Cross-Over Transition of [Co(dpzca) ₂]. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 445-458.	1.4	3
97	Intermolecular Interaction and Cooperativity in an Fe(II) Spin Crossover Molecular Thin Film System. <i>Journal of Physics Condensed Matter</i> , 2022, 34, .	0.7	3
98	Impact of π -Conjugation Length on the Excited-State Dynamics of Star-Shaped Carbazole- π -Triazine Organic Chromophores. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3291-3300.	1.1	2
99	2,4-Bis[2-(benzylaminocarbonyl)phenoxyethyl]-1,3,5-trimethylbenzene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o2489-o2490.	0.2	0
100	Metal-Organic Frameworks for Photocatalysis. <i>Series on Chemistry, Energy and the Environment</i> , 2018, , 519-580.	0.3	0
101	Photoinduced Charge Transport in Conductive Metal Organic Frameworks. , 2021, , .		0