

# Jian-Jun Zhang

## List of Publications by Year in descending order

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257450

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docs citations

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times ranked

2219  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature and Concentration Control over Interpenetration in a Metal-Organic Material. <i>Journal of the American Chemical Society</i> , 2009, 131, 17040-17041.	13.7	361
2	Crystal Engineering of the Coordination Architecture of Metal Polycarboxylate Complexes by Hydrothermal Synthesis: Assembly and Characterization of Four Novel Cadmium Polycarboxylate Coordination Polymers Based on Mixed Ligands. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 2096-2106.	2.0	103
3	Syntheses, Structures, and Properties of High-Nuclear $3d \sim 4f$ Clusters with Amino Acid as Ligand: $\{Gd_6Cu_{24}\}$ , $\{Tb_6Cu_{26}\}$ , and $\{(Ln_6Cu_{24})_2Cu\}$ ( $Ln = Sm, Gd$ ). <i>Inorganic Chemistry</i> , 2006, 45, 7173-7181.	4.0	102
4	A trichromatic MOF composite for multidimensional ratiometric luminescent sensing. <i>Chemical Science</i> , 2018, 9, 2918-2926.	7.4	96
5	Superexpanded Prussian-Blue Analogue with $[Fe(CN)_6]^{4-}$ , $[Nb_6Cl_{12}(CN)_6]^{4-}$ , and $[Mn(salen)]^{+}$ as Building Units. <i>Journal of the American Chemical Society</i> , 2007, 129, 250-251.	13.7	92
6	Syntheses and Characterizations of a Series of Novel $Ln_6Cu_{24}$ Clusters with Amino Acids as Ligands. <i>Inorganic Chemistry</i> , 2004, 43, 5472-5478.	4.0	91
7	Two 3D Supramolecular Polymers Constructed from an Amino Acid and a High-Nuclear $Ln_6Cu_{24}$ Cluster Node. <i>Chemistry - A European Journal</i> , 2004, 10, 3963-3969.	3.3	90
8	Syntheses, Structures, and Photoluminescent Properties of Three Silver(I) Coordination Polymers with 2-(4-Pyridyl)benzimidazole. <i>Crystal Growth and Design</i> , 2005, 5, 1569-1574.	3.0	79
9	A novel 2D net-like supramolecular polymer constructed from $Ln_6Cu_{24}$ node and $trans-Cu(Gly)_2$ bridge. <i>Chemical Communications</i> , 2004, 1186-1187.	4.1	78
10	Three Novel Polymeric Frameworks Assembled from CdII, CoII, and MnII with the Mixed Organic Ligands 3,4-Pyridinedicarboxylate, 1,3-Bis(4-pyridyl)propane, or 1,2-Bis(4-pyridyl)ethane. <i>European Journal of Inorganic Chemistry</i> , 2003, 2670-2677.	2.0	59
11	Directed Assembly of Cluster-Based Supramolecules into One-Dimensional Coordination Polymers. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4995-4998.	13.8	51
12	Synthesis and Characterization of a Series of Novel Heptanuclear Trigonal-Prismatic Polyhedra with Different Edge-Ligands. <i>Chemistry - A European Journal</i> , 2002, 8, 5742-5749.	3.3	50
13	Three Series of $3d \sim 4f$ Heterometallic Polymers Based on $[LnCu_6]$ or $[Ln_6Cu_{24}]$ Clusters and Formate Bridges: Displaying Significant Magnetocaloric Effect. <i>Crystal Growth and Design</i> , 2013, 13, 3429-3437.	3.0	50
14	Syntheses, crystal structures, and properties of complexes constructed with polybenzoate and 2,2'-bibenzimidazole. <i>CrystEngComm</i> , 2006, 8, 281.	2.6	47
15	New $3d \sim 4f$ heterometallic clusters built from mixed glycine and iminodiacetate acid: octahedron $\{La_2Ni_9\}$ and onion-like $\{Gd_5\}$ , $\{Ni_{12}\}$ with interesting magnetocaloric effect. <i>Dalton Transactions</i> , 2013, 42, 5711.	3.3	41
16	1-D Platinum Wire-Stacking Structure Built of Platinum(II) Diimine Bis(Ħf-acetylide) Units with Luminescence in the NIR Region. <i>Inorganic Chemistry</i> , 2016, 55, 10208-10217.	4.0	41
17	Discrimination of Various Amine Vapors by a Triemissive Metal-Organic Framework Composite via the Combination of a Three-Dimensional Ratiometric Approach and a Confinement-Induced Enhancement Effect. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 12043-12053.	8.0	38
18	Two Dynamic ABW-Type Metal Organic Frameworks Built of Pentacarboxylate and $Zn^{2+}$ as Photoluminescent Probes of Nitroaromatics. <i>Crystal Growth and Design</i> , 2016, 16, 4539-4546.	3.0	36

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19	Metal-Ligand Directed Assembly of Layered Cluster-Based Coordination Polymer and Its Solvent-Mediated Structural Transformations. <i>Crystal Growth and Design</i> , 2008, 8, 172-175.	3.0	33
20	A Trichromatic and White-Light-Emitting MOF Composite for Multi-Dimensional and Multi-Response Ratiometric Luminescent Sensing. <i>Chemistry - A European Journal</i> , 2018, 24, 9555-9564.	3.3	33
21	Hybrid dimers based on metal-substituted Keggin polyoxometalates (metal = Ti, Ln) for cyanosilylation catalysis. <i>Dalton Transactions</i> , 2018, 47, 9079-9089.	3.3	30
22	Four one-dimensional lanthanide-phenylacetate polymers exhibiting luminescence and magnetic cooling/spin-glass behavior. <i>Dalton Transactions</i> , 2017, 46, 16485-16492.	3.3	28
23	Facile and Equipment-Free Data Encryption and Decryption by Self-Encrypting Pt(II) Complex. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13350-13358.	8.0	28
24	Luminescence switching property of cycloplatinated(II) complexes bearing 2-phenylpyridine derivatives and the application for data security storage. <i>Dyes and Pigments</i> , 2019, 165, 231-238.	3.7	26
25	Linking heterometallic Cu-Ln chain units with a 2-methylenesuccinate bridge to form a 2D network exhibiting a large magnetocaloric effect. <i>CrystEngComm</i> , 2017, 19, 2702-2708.	2.6	23
26	Solvent-Mediated Ion Exchange and Structural Transformations of Cluster-Based Coordination Polymers. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 2982-2990.	2.0	22
27	Two one-dimensional compounds based on pyramidal {TbCu <sub>4</sub> } units and formate ligand: chair-like [(H <sub>2</sub> O) <sub>2</sub> (ClO <sub>4</sub> ) <sub>2</sub> ] <sup>2-</sup> clusters and slow relaxation of magnetization. <i>Dalton Transactions</i> , 2012, 41, 13264.	3.3	22
28	Reversible Dual-Stimulus-Responsive Luminescence and Color Switch of a Platinum Complex with 4-((2-trimethylsilyl)ethynyl)-2,2'-bipyridine. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 986-993.	3.0	22
29	Pentanuclear {Cr <sub>2</sub> Ln <sub>3</sub> } (Ln = Dy, Tb) Heterometallic Clusters Based on an Amino Acid Ligand: Slow Relaxation of Magnetization and Substitution Reactions. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5153-5160.	2.0	20
30	A turn-on-Cr <sup>3+</sup> ion probe based on non-luminescent metal-organic framework-new strategy to prepare a recovery probe. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13552-13561.	10.3	20
31	Self-assembly and solvent-mediated structural transformation of one-dimensional cluster-based coordination polymer. <i>CrystEngComm</i> , 2011, 13, 133-137.	2.6	19
32	Two (5,5)-connected isomeric frameworks as highly selective and sensitive photoluminescent probes of nitroaromatics. <i>CrystEngComm</i> , 2017, 19, 2786-2794.	2.6	19
33	Heterometallic Hexanuclear [Ln <sub>4</sub> Cr <sub>2</sub> ] Cluster-Based Three-Dimensional Sulfate Frameworks as a Magnetic Refrigerant and Single Molecular Magnet. <i>Crystal Growth and Design</i> , 2018, 18, 7335-7342.	3.0	19
34	Color-Tunable Long-Lived Room-Temperature Phosphorescence in a Coordination Polymer Based on a Nonaromatic Ligand and Its Phosphor/Coordination Polymer-Doped Systems. <i>Chemistry of Materials</i> , 2021, 33, 7272-7282.	6.7	19
35	A New Spherical Metallacryptate Compound [Na{Cu <sub>6</sub> (Thr) <sub>8</sub> (H <sub>2</sub> O) <sub>2</sub> (ClO <sub>4</sub> ) <sub>4</sub> }]·ClO <sub>4</sub> ·5 H <sub>2</sub> O: Magnetic Properties and DFT Calculations. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 2706-2713.	2.0	16
36	Square and Butterfly Tetranuclear [Co <sub>2</sub> Ln <sub>2</sub> ] Clusters Built from the Same Building Blocks but Displaying Different Magnetic Properties: Structural Variation by Means of Solvent and the Radii of Ln <sup>3+</sup> Ions. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 384-391.	2.0	16

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37	A colorimetric/luminescent benzene compound sensor based on a bis(1,1'-acetylido) platinum(II) complex: enhancing selectivity and reversibility through dual-recognition sites strategy. <i>RSC Advances</i> , 2015, 5, 65613-65617.	3.6	16
38	Octahedral Metal Clusters as Building Blocks of Trimetallic Superexpanded Prussian Blue Analogues. <i>Inorganic Chemistry</i> , 2015, 54, 1082-1090.	4.0	15
39	Dioxygenation of Flavonol Catalyzed by Copper(II) Complexes Supported by Carboxylate-Containing Ligands: Structural and Functional Models of Quercetin 2,4-Dioxygenase. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1845-1854.	2.0	15
40	Self-Assembly of Organodiphosphonate, Polyoxomolybdate and Diphenanthrolinecobalt(II) into Two Clusters and One Linear Polymer. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 1798-1801.	2.0	14
41	Synthesis, Structure, and Magnetic Properties of Three Chiral Sodium-Centered Polynuclear Copper(II) Clusters with L-Alanine. <i>European Journal of Inorganic Chemistry</i> , 2008, 2008, 1141-1146.	2.0	14
42	3d <sup>4</sup> -4f Heterotrimetallic 3D Chiral Frameworks Based on Octahedral {Ni <sub>6</sub> Ag <sub>8</sub> S <sub>12</sub> Cl} or Trigonal Bipyramidal {Co <sub>2</sub> Ag <sub>3</sub> S <sub>6</sub> } Clusters: Synthesis, Crystal Structures, and Characterization. <i>Crystal Growth and Design</i> , 2013, 13, 918-925.	3.0	14
43	Vapor-, thermo-, and mechanical-grinding-triggered tri-stimuli-responsive luminescence switching of cycloplatinated(II) complex bearing 8-quinolinol derivatives. <i>Dyes and Pigments</i> , 2020, 180, 108451.	3.7	14
44	Strategy for Achieving Long-Wavelength Near-Infrared Luminescence of Diimineplatinum(II) Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 3773-3780.	4.0	13
45	Hydrothermal synthesis and crystal structure of two hetero-transition metal polymers: [Co(1,10-phen) <sub>2</sub> (V <sub>2</sub> O <sub>4</sub> )(O <sub>3</sub> PCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> PO <sub>3</sub> ) <sub>n</sub> ] and [{Co(1,10-phen) <sub>2</sub> }(V <sub>4</sub> O <sub>10</sub> )(O <sub>3</sub> PCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> PO <sub>3</sub> )(2H <sub>2</sub> O) <sub>n</sub> ]. <i>New Journal of Chemistry</i> , 2003, 27, 230-232.	2.8	12
46	Versatile Induction of Efficient Organic-Based Room-Temperature Phosphorescence via Al <sub>2</sub> O <sub>3</sub> /DMSO Matrices Encapsulation. <i>Advanced Optical Materials</i> , 2020, 8, 2000482.	7.3	12
47	The triple-stimuli-responsive luminescence switching properties and application of a square-planar platinum(II) complex. <i>Dyes and Pigments</i> , 2022, 200, 110139.	3.7	11
48	Four (5,5)-connected three-dimensional metal organic materials based on pentacarboxylate ligand: Synthesis, structures and characterization. <i>CrystEngComm</i> , 2013, 15, 6395.	2.6	10
49	Synthesis, Structures, and Magnetic Properties of Three Series of Discrete or 1D Compounds based on Pyramidal [Ln <sub>4</sub> Cu <sub>4</sub> ] (Ln = Gd and Dy) Cluster and Formate Ligand. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 448-453.	1.2	10
50	Set of Fe(II)-3-Hydroxyflavonolate Enzyme-Substrate Model Complexes of Atypically Coordinated Mononuclear Non-Heme Fe(II)-Dependent Quercetin 2,4-Dioxygenase. <i>ACS Omega</i> , 2017, 2, 5850-5860.	3.5	9
51	Luminescent Sensing Behaviors of a Lead Metal-Organic Framework and Its Binary/Ternary Composites: Increasing Selectivity and Sensitivity through a Multiemissive Approach. <i>Crystal Growth and Design</i> , 2021, 21, 207-217.	3.0	9
52	Expanded Prussian Blue Analogue Based on Octahedral {Nb <sub>6</sub> } Clusters and {K <sub>2</sub> } Dimers as Nodes. <i>Journal of Chemical Crystallography</i> , 2009, 39, 1-8.	1.1	8
53	Synthesis, Structures, and Magnetic Properties of Binuclear [CrLn] (Ln = Gd or Dy) and Trinuclear [Cr <sub>2</sub> Ln] (Ln = Gd, Dy, or Tb) Heterometallic Clusters with 2,2'-Bipyridine as Ligand. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5702-5707.	2.0	8
54	Long-wavelength NIR luminescence of 2,2'-bipyridyl-Pt(II) dimers achieved by enhanced Pt-Pt interaction. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4192-4199.	6.0	8

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55	A One Dimensional 3d-4f Heterometallic Chain Based on Gd <sup>3+</sup> Nodes and Tetranuclear {Cr <sub>4</sub> (hdpta) <sub>2</sub> } Complex Ligands: Synthesis, Structure and Magnetic Properties. <i>Journal of Cluster Science</i> , 2016, 27, 883-894.	3.3	7
56	Two 1D carboxylate-bridged magnets displaying solvent-dependent canted antiferromagnetic ordering. <i>CrystEngComm</i> , 2019, 21, 4098-4103.	2.6	7
57	Synergistic Size Effect of MOF Cavity/Encapsulated Luminescent Modules Significantly Boosts Nitro-Aromatic Vapors Distinction via a Three-Dimensional Ratiometric Sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 328, 129025.	7.8	7
58	Synthesis, structure and luminescent switching properties of cycloplatinated(II) complexes bearing phenyl 1,2-diketone ligands. <i>Journal of Organometallic Chemistry</i> , 2021, 952, 122048.	1.8	7
59	Structure-Reactivity Relationship in ES Models of Co(II)-Containing Quercetin 2,4-Dioxygenase. <i>ChemistrySelect</i> , 2019, 4, 13974-13982.	1.5	5
60	Structural and biochemical characterization of the yeast HD domain containing protein YGK1 reveals a metal-dependent nucleoside 5'-monophosphatase. <i>Biochemical and Biophysical Research Communications</i> , 2018, 501, 674-681.	2.1	4
61	Self-Assembly of Cluster-Based Nanoscopic Supramolecules into One-Dimensional Coordination Polymers. <i>Advances in Materials Science and Engineering</i> , 2009, 2009, 1-11.	1.8	3
62	Syntheses and characterization of four 2D metal-organic networks based on rigid imidazolate/carboxylate functionalized ligand - Effect of the torsion of the ligands on crystal structures and properties. <i>Inorganica Chimica Acta</i> , 2013, 394, 117-126.	2.4	3
63	HicAB toxin-antitoxin complex from <i>Escherichia coli</i> : expression and crystallization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2017, 73, 505-510.	0.8	3
64	Diemissive dye@CP composites with full-spectrum tunable mechanoluminescence. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15165-15174.	5.5	3
65	From 498 to 1300 nm: The exceptional large emission shift of a cycloplatinated(II) complex caused by molecular aggregation. <i>Dyes and Pigments</i> , 2022, 205, 110567.	3.7	3
66	Luminescent Coordination Polymer with Its Multistimuli-Responsive Sensitivity Enabled and Boosted by Its Dual Emission. <i>Crystal Growth and Design</i> , 2022, 22, 4845-4853.	3.0	3
67	Effects of Different Amount of Crystalline Solvate Molecules on Solid Structures and Photophysical Properties of a Platinum(II) Moiety with 4,4'-Dibromo-2,2'-Bipyridine Ligand. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 597-602.		2
68	Syntheses, structures and characterization of the tetranuclear tin(IV) oxysulfide clusters (n) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 T 2006, 59, 1991-1998.	2.2	1
69	Synthesis, Crystal Structures, and Characterization of Two 3d-3d Heterometallic Coordination Frameworks: [ZnCo(Hcit)Cl] and [ZnCo(Hcit)Br]. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2010, 637, n/a-n/a.	1.2	1
70	Two 2D Metal-organic Networks Based on a Rigid Imidazolate/Sulfonate Functionalized Ligand - Effect of the Coordination Modes of the Ligand on Crystal Structures. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012, 638, 1006-1011.	1.2	1
71	Two 2D Metal-organic Networks based on s-block Metal Nodes (Li <sup>+</sup> and Mg <sup>2+</sup> ) and Rigid Imidazole/Carboxylate Functionalized Linkers. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 569-574.	1.2	1
72	Synthesis, structure and dual-stimulus-responsive luminescence switching of a new platinum(II) complex based on 3-trimethylsilylethynyl-1,10-phenanthroline. <i>Journal of Organometallic Chemistry</i> , 2019, 897, 155-160.	1.8	1

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73	Metal-ion-dependent, Solvent-mediated Structural Transformation and Simultaneous Partial Transmetalation of an srs Framework into Desulfurization-efficient Co-Cu HKUST-1. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2020, 646, 1437-1443.	1.2	1
74	The Role of Thermodynamically Stable Configuration in Enhancing Crystallographic Diffraction Quality of Flexible MOFs. IScience, 2021, 24, 103398.	4.1	1
75	Dioxygenation of Flavonol Catalyzed by Copper(II) Complexes Supported by Carboxylate-Containing Ligands: Structural and Functional Models of Quercetin 2,4-Dioxygenase. European Journal of Inorganic Chemistry, 2017, 2017, 1844-1844.	2.0	0