

Song-Liang Cai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88
papers

2,092
citations

25
h-index

43
g-index

93
ext. papers

2,606
ext. citations

4.6
avg, IF

5.01
L-index

#	Paper	IF	Citations
88	Fabrication of cellulose derivative coated spherical covalent organic frameworks as chiral stationary phases for high-performance liquid chromatographic enantioseparation. <i>Journal of Chromatography A</i> , 2022 , 1675, 463155	4.5	0
87	Facile and Site-Selective Synthesis of an Amine-Functionalized Covalent Organic Framework.. <i>ACS Macro Letters</i> , 2021 , 10, 1590-1596	6.6	0
86	Covalent Cross-Linking of Metal-Organic Cages: Formation of an Amorphous Cationic Porous Extended Framework for the Uptake of Oxo-Anions from Water. <i>ChemPlusChem</i> , 2021 , 86, 699	2.8	
85	A hydrolytically stable cage-based metal-organic framework containing two types of building blocks for the adsorption of iodine and dyes. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 1083-1092	6.8	17
84	A new hydrazone-linked covalent organic framework for Fe(III) detection by fluorescence and QCM technologies. <i>CrystEngComm</i> , 2021 , 23, 3594-3601	3.3	6
83	A hydrolytically stable Zn(II) coordination polymer based on a new imidazolyl-pyrazolyl heterotopic ligand as a scavenger of MnO ₄ ⁻ and a luminescent sensor for MnO ₄ ⁻ and Cr ₂ O ₇ ²⁻ . <i>Inorganic Chemistry Communication</i> , 2021 , 130, 108720	3.1	0
82	A hydrolytically stable hydrogen-bonded inorganic-organic network as a luminescence turn-on sensor for the detection of Bi ³⁺ and Fe ³⁺ cations in water. <i>Polyhedron</i> , 2021 , 205, 115284	2.7	2
81	A recyclable bipyridine-containing covalent organic framework-based QCM sensor for detection of Hg(II) ion in aqueous solution. <i>Journal of Solid State Chemistry</i> , 2021 , 302, 122421	3.3	1
80	Stable hydrazone-linked chiral covalent organic frameworks: Synthesis, modification, and chiral signal inversion from monomers. <i>Chinese Chemical Letters</i> , 2021 , 32, 107-112	8.1	5
79	Resistive Switching Memory Performance of Two-Dimensional Polyimide Covalent Organic Framework Films. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51837-51845	9.5	14
78	Chemically Robust Covalent Organic Frameworks: Progress and Perspective. <i>Matter</i> , 2020 , 3, 1507-1540	12.7	25
77	Reversible Interlayer Sliding and Conductivity Changes in Adaptive Tetrathiafulvalene-Based Covalent Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19054-19061	9.5	24
76	Protein A-mesoporous silica composites for chromatographic purification of immunoglobulin G. <i>New Journal of Chemistry</i> , 2020 , 44, 7884-7890	3.6	3
75	Expeditious synthesis of covalent organic frameworks: a review. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16045-16060	13	33
74	Cu-MOF derived Cu-C nanocomposites towards high performance electrochemical supercapacitors.. <i>RSC Advances</i> , 2020 , 10, 4621-4629	3.7	8
73	Dynamic Covalent Synthesis of Crystalline Porous Graphitic Frameworks. <i>CheM</i> , 2020 , 6, 933-944	16.2	56
72	A new amplification strategy for a quartz crystal microbalance miRNA sensor based on selective interactions between a metal-organic framework and miRNA. <i>New Journal of Chemistry</i> , 2020 , 44, 1684-1688	2.6	4

71	A Mn(II)-MOF with inherent missing metal-ion defects based on an imidazole-tetrazole tripodal ligand and its application in supercapacitors. <i>Dalton Transactions</i> , 2020 , 49, 12150-12155	4.3	4
70	A new QCM signal enhancement strategy based on streptavidin@metal-organic framework complex for miRNA detection. <i>Analytica Chimica Acta</i> , 2020 , 1095, 212-218	6.6	6
69	Covalent Cross-Linking of Metal-Organic Cages: Formation of an Amorphous Cationic Porous Extended Framework for the Uptake of Oxo-Anions from Water. <i>ChemPlusChem</i> , 2020 , 86, 709-715	2.8	3
68	Assembly of two new heterometallic coordination polymers derived from 3-(1H-benzimidazol-2-yl)propanoic acid. <i>Inorganic and Nano-Metal Chemistry</i> , 2019 , 49, 297-305	1.2	
67	An Anionic Nanotubular Metal-Organic Framework for High-Capacity Dye Adsorption and Dye Degradation in Darkness. <i>Inorganic Chemistry</i> , 2019 , 58, 13979-13987	5.1	44
66	Hydrolytically Stable Nanotubular Cationic Metal-Organic Framework for Rapid and Efficient Removal of Toxic Oxo-Anions and Dyes from Water. <i>Inorganic Chemistry</i> , 2019 , 58, 2899-2909	5.1	71
65	A Benzimidazole-Containing Covalent Organic Framework-Based QCM Sensor for Exceptional Detection of CEES. <i>Crystal Growth and Design</i> , 2019 , 19, 3543-3550	3.5	16
64	Stable Hydrazone-Linked Covalent Organic Frameworks Containing O,N,ORChelating Sites for Fe(III) Detection in Water. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12830-12837	9.5	77
63	Fabrication of a hydrazone-linked covalent organic framework-bound capillary column for gas chromatography separation. <i>Separation Science Plus</i> , 2019 , 2, 120-128	1.1	7
62	Cationic Amorphous Metal@Organic Cage-Based Materials for the Removal of Oxo-Anions from Water. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5824-5832	5.6	12
61	Homochiral Cu(I) Coordination Polymers Based on a Double-Stranded Helical Building Block from Achiral Ligands: Symmetry-Breaking Crystallization, Photophysical and Photocatalytic Properties. <i>Inorganic Chemistry</i> , 2019 , 58, 14660-14666	5.1	15
60	An unprecedented 2D covalent organic framework with an htb net topology. <i>Chemical Communications</i> , 2019 , 55, 13454-13457	5.8	17
59	The construction of amorphous metal-organic cage-based solid for rapid dye adsorption and time-dependent dye separation from water. <i>Chemical Engineering Journal</i> , 2019 , 357, 129-139	14.7	82
58	Assembly of a New 2D Heterometallic 3d ^{mf} Coordination Polymer Bearing Planar Tetranuclear Square Building Blocks. <i>Journal of Chemical Crystallography</i> , 2019 , 49, 21-28	0.5	2
57	Construction of a New 3D Zn(II) MOF with a mog Topology From 2-(Hydroxymethyl)-1H-imidazole-4,5-dicarboxylate. <i>Journal of Chemical Crystallography</i> , 2018 , 48, 47-53	0.5	2
56	Syntheses, Crystal Structures, and Properties of Two IB Group Metal Coordination Polymers Based on 2-(Trifluoromethyl)-1H-Imidazole-4,5-Dicarboxylate. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2018 , 44, 64-71	1.6	2
55	Facile transformation of imine covalent organic frameworks into ultrastable crystalline porous aromatic frameworks. <i>Nature Communications</i> , 2018 , 9, 2998	17.4	168
54	Construction of d10 metal coordination polymers based on in situ formed 3,5-di(1H-1,2,4-triazol-1-yl)benzoic acid from different precursors: influence of in situ hydrolysis reactions on assembly process. <i>CrystEngComm</i> , 2018 , 20, 5531-5543	3.3	4

53	Construction of coordination polymers based on a rigid tripodal nitrogen-containing heterotopic ligand that designed by mixed-donors strategy. <i>Journal of Solid State Chemistry</i> , 2018 , 265, 64-71	3.3	4
52	Synthesis, crystal structure and adsorption property of a microporous Cd(II) metal-organic framework based on 1H-imidazo[4,5-f][1,10]phenanthroline. <i>Polyhedron</i> , 2018 , 152, 17-21	2.7	1
51	Covalent Organic Frameworks as the Coating Layer of Ceramic Separator for High-Efficiency Lithium-Sulfur Batteries. <i>ACS Applied Nano Materials</i> , 2018 , 1, 132-138	5.6	46
50	Syntheses, Structures, and Luminescent Properties of Two Alkaline Earth Metal Coordination Polymers from Hydroxymethyl Imidazole Dicarboxylate. <i>Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya</i> , 2018 , 44, 792-799	1.6	1
49	A series of alkaline earth metal coordination polymers constructed from two newly designed imidazole-based dicarboxylate ligands containing pyridinylmethyl groups. <i>CrystEngComm</i> , 2017 , 19, 3003-3016 ¹⁵	3.3	15
48	Approach to tuned emitting color of luminescent liquid crystals with substituted fluoropyrrole acceptor unit. <i>Dyes and Pigments</i> , 2017 , 145, 324-330	4.6	8
47	Construction of Four Coordination Polymers based on 2-[4-(Pyridine-4-yl)phenyl]-1H-imidazole-4,5-dicarboxylic Acid. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 593-600	1.3	7
46	Anion and pH-regulated assembly of three Cd(II) coordination polymers based on 3,5-di(1H-benzo[d]imidazol-1-yl)benzoate. <i>Journal of Coordination Chemistry</i> , 2017 , 70, 135-144	1.6	4
45	Construction of a hydrazone-linked chiral covalent organic framework-silica composite as the stationary phase for high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2017 , 1519, 100-109	4.5	70
44	Temperature/anion-dependent self-assembly of Co(II) coordination polymers based on a heterotopic imidazole-tetrazole-bifunctional ligand: Structures and magnetic properties. <i>Inorganic Chemistry Communication</i> , 2017 , 84, 10-14	3.1	6
43	Construction of three Cd(II) coordination polymers based on extended pyridyl-tetrazolyl-bifunctional ligands: Structures and luminescent properties. <i>Inorganic Chemistry Communication</i> , 2017 , 83, 76-80	3.1	1
42	Lanthanide contraction effect on the crystal structures of 2D lanthanide coordination polymers based on 2-(trifluoromethyl)-1H-imidazole-4,5-dicarboxylic acid. <i>Structural Chemistry</i> , 2017 , 28, 577-586 ^{1.8}	1.8	9
41	Rationally Designed 2D Covalent Organic Framework with a Brick-Wall Topology. <i>ACS Macro Letters</i> , 2016 , 5, 1348-1352	6.6	41
40	Synthesis of two Zn(II) compounds from terpyridine-based ligand: Structures, crystal-to-crystal transformation and detection of nerve agent mimics. <i>Inorganic Chemistry Communication</i> , 2016 , 73, 16-20 ¹	2.0	5
39	Two new three-dimensional metal-organic frameworks with 4-connected diamondoid and unusual (6,16)-connected net topologies based on planar tetranuclear squares as secondary building units. <i>CrystEngComm</i> , 2016 , 18, 1174-1183	3.3	14
38	LC-UV-Guided Isolation and Structure Determination of Lancolide E: A Norriterpenoid with a Tetracyclo[5.4.0.0(2,4).0(3,7)]undecane-Bridged System from a "Talented" Schisandra Plant. <i>Organic Letters</i> , 2016 , 18, 100-3	6.2	15
37	Construction of four d10 coordination polymers containing binuclear rings as building blocks from 4?-(2H-tetrazol-5-yl)biphenyl-4-carboxylic acid. <i>Journal of Coordination Chemistry</i> , 2016 , 69, 976-984	1.6	5
36	Anion- and temperature-dependent assembly, crystal structures and luminescence properties of six new Cd(II) coordination polymers based on 2,3,5,6-tetrakis(2-pyridyl)pyrazine. <i>CrystEngComm</i> , 2016 , 18, 5164-5176	3.3	16

35	Construction of six new luminescent Ln(III)Zn(II) heterometallic coordination polymers based on heterometallic secondary building units. <i>CrystEngComm</i> , 2016 , 18, 8672-8682	3-3	11
34	The Organic Flatland-Recent Advances in Synthetic 2D Organic Layers. <i>Advanced Materials</i> , 2015 , 27, 5762-70	24	138
33	Two new three-dimensional (3,4)-connected lanthanide (III) coordination polymers based on 2-(3-Pyridyl)-1H-imidazole-4, 5-dicarboxylate: Structures and luminescent properties. <i>Inorganic Chemistry Communication</i> , 2015 , 55, 165-168	3-1	5
32	Tunable electrical conductivity in oriented thin films of tetrathiafulvalene-based covalent organic framework. <i>Chemical Science</i> , 2014 , 5, 4693-4700	9-4	235
31	Anion-dependent construction of three Cd(II) coordination polymers containing helical chains: Structures and luminescence properties. <i>Inorganic Chemistry Communication</i> , 2014 , 50, 79-83	3-1	4
30	Construction of achiral/chiral coordination polymers with helical structures based on an imidazole-based dicarboxylate ligand containing the trifluoromethyl group. <i>Inorganic Chemistry Communication</i> , 2014 , 48, 61-64	3-1	10
29	Structures and luminescent properties of two new main group coordination polymers based on 2-(hydroxymethyl)-1H-imidazole-4,5-dicarboxylic acid. <i>Inorganic Chemistry Communication</i> , 2014 , 48, 40-43	3-1	14
28	Structures and luminescent properties of three new lanthanide (III) coordination polymers based on 2-(pyridin-3-yl)-1H-imidazole-4, 5-dicarboxylate. <i>Inorganic Chemistry Communication</i> , 2014 , 46, 98-102	3-1	7
27	Tubular metal-organic framework-based capillary gas chromatography column for separation of alkanes and aromatic positional isomers. <i>Journal of Chromatography A</i> , 2013 , 1285, 132-8	4-5	49
26	The construction of Cu(I)/Cu(II) coordination polymers based on pyrazine-2-carboxylate: Structural diversity tuned by in situ hydrolysis reaction. <i>CrystEngComm</i> , 2013 , 15, 5359	3-3	25
25	Structures and properties of five main group coordination polymers based on 2-(pyridin-4-yl)-1H-imidazole-4,5-dicarboxylate. <i>Polyhedron</i> , 2012 , 38, 190-197	2-7	14
24	A new two-dimensional cadmium coordination polymer with 1H-imidazole-4-carboxylate and oxalate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2012 , 68, m177-80		3
23	Construction of luminescent three-dimensional Ln(III)Zn(II) heterometallic coordination polymers based on 2-pyridyl imidazole dicarboxylate. <i>CrystEngComm</i> , 2012 , 14, 8236	3-3	29
22	Two Types of New Three-Dimensional d ¹⁰ Heterometallic Coordination Polymers Based on 2-(Pyridin-3-yl)-1H-Imidazole-4,5-Dicarboxylate and Oxalate Ligands: Syntheses, Structures, Luminescence, and Magnetic Properties. <i>Crystal Growth and Design</i> , 2012 , 12, 4441-4449	3-5	60
21	Construction of Ba(II) Coordination Polymers Based on Imidazole-Based Dicarboxylate Ligands: Structural Diversity Tuned by Alcohol Solvents. <i>Crystal Growth and Design</i> , 2012 , 12, 3575-3582	3-5	58
20	A Series of New Three-Dimensional d ¹⁰ Heterometallic Coordination Polymers with Rare 10-Connected bct Net Topology Based on Planar Hexanuclear Heterometallic Second Building Units. <i>Crystal Growth and Design</i> , 2012 , 12, 5737-5745	3-5	63
19	Solvent-regulated assembly of two new Cd(II) coordination polymers based on 3-(1H-benzimidazol-2-yl) propanoic acid. <i>Inorganic Chemistry Communication</i> , 2012 , 21, 100-103	3-1	9
18	Self-assembly of two 3D microporous coordination polymers based on 2-oxynicotinate and oxalate ligands. <i>Inorganic Chemistry Communication</i> , 2012 , 21, 178-181	3-1	3

- 17 Assembly of two new Mn(II) coordination polymers based on 5-aminoisophthalate: Structural diversity and properties. *Inorganic Chemistry Communication*, **2012**, 22, 93-97 3.1 2
- 16 An unprecedented (3,4,14)-connected 3D metal-organic framework based on planar octanuclear lead(II) clusters as a secondary building unit. *CrystEngComm*, **2012**, 14, 1193-1196 3.3 36
- 15 Anion-dependent assembly and solvent-mediated structural transformations of three Cd(II) coordination polymers based on 1H-imidazole-4-carboxylic acid. *CrystEngComm*, **2012**, 14, 2308 3.3 34
- 14 Assembly of Chiral/Achiral Coordination Polymers Based on 2-(Pyridine-3-yl)-1H-4,5-imidazoledicarboxylic Acid: Chirality Transfer between Chiral Two-Dimensional Networks Containing Helical Chains. *Crystal Growth and Design*, **2012**, 12, 2355-2361 3.5 54
- 13 Spontaneous resolution of a coordination polymer containing stereogenic five-coordinate Zn(II) centers and achiral ligands with axially chiral conformation. *CrystEngComm*, **2012**, 14, 6241 3.3 13
- 12 An unprecedented supramolecular network with channels filled by 1D coordination polymer chains: Cocrystallization of Ag(I)-4,4'-bipyridine and Ag(I)-benzimidazole complexes. *CrystEngComm*, **2011**, 13, 6345 3.3 17
- 11 The construction of coordination networks based on imidazole-based dicarboxylate ligand containing hydroxymethyl group. *CrystEngComm*, **2011**, 13, 883-888 3.3 66
- 10 Recognition of H₂PO₄(-) and Cu²⁺ in water by luminescent terbium silica xerogel. *Journal of Fluorescence*, **2011**, 21, 1117-22 2.4 13
- 9 Two mononuclear octahedral complexes with benzimidazole-2-carboxylate: supramolecular networks constructed by hydrogen bonds. *Acta Crystallographica Section C: Crystal Structure Communications*, **2011**, 67, m346-50 5
- 8 Two new 2D coordination polymers containing bowl-shaped voids assembled from the bis(chelating) bridging ligand. *Inorganic Chemistry Communication*, **2011**, 14, 818-821 3.1 10
- 7 Two novel porous luminescent lanthanide-organic frameworks with new four-nodal (3,4)-connected network topology. *Inorganic Chemistry Communication*, **2011**, 14, 826-830 3.1 26
- 6 A new sensor based on luminescent terbium-organic framework for detection of Fe³⁺ in water. *Inorganic Chemistry Communication*, **2011**, 14, 937-939 3.1 27
- 5 Three new complexes synthesized from an imidazole-based dicarboxylate ligand containing hydroxymethyl group. *Inorganic Chemistry Communication*, **2011**, 14, 1097-1101 3.1 31
- 4 Two new coordination frameworks based on rod-shaped secondary building blocks with five-nodal (3, 4, 5, 6)-connected and (3, 5, 6)-connected network topologies. *Inorganic Chemistry Communication*, **2011**, 14, 1156-1160 3.1 7
- 3 trans-Diaqua-bis-(1H-imidazole-4-carboxylato- η^1 ,O)nickel(II). *Acta Crystallographica Section E: Structure Reports Online*, **2011**, 67, m865 8
- 2 Diaqua-bis-(1H-imidazole-4-carboxylato- η^1 ,O)zinc. *Acta Crystallographica Section E: Structure Reports Online*, **2011**, 67, m897 5
- 1 (5S)-3-Chloro-5-[(1R,2S,5R)-2-isopropyl-5-methyl-cyclo-hex-yloxy]-4-(4-methyl-piperidin-1-yl)furan-2(5H)-one. *Acta Crystallographica Section E: Structure Reports Online*, **2011**, 67, o656