

# Alireza Azhdari Tehrani

## List of Publications by Year in descending order

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462  
papers

17,381  
citations

14655

66  
h-index

29157

104  
g-index

517  
all docs

517  
docs citations

517  
times ranked

11316  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed-Metal MOFs: Unique Opportunities in Metal-Organic Framework (MOF) Functionality and Design. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15188-15205.	13.8	493
2	Coordinatively unsaturated metal sites (open metal sites) in metal-organic frameworks: design and applications. <i>Chemical Society Reviews</i> , 2020, 49, 2751-2798.	38.1	449
3	Structures and properties of mercury(II) coordination polymers. <i>Coordination Chemistry Reviews</i> , 2009, 253, 1882-1905.	18.8	370
4	Applications of metal-organic coordination polymers as precursors for preparation of nano-materials. <i>Coordination Chemistry Reviews</i> , 2012, 256, 2921-2943.	18.8	358
5	Template strategies with MOFs. <i>Coordination Chemistry Reviews</i> , 2019, 387, 415-435.	18.8	260
6	Taking organic reactions over metal-organic frameworks as heterogeneous catalysis. <i>Microporous and Mesoporous Materials</i> , 2018, 256, 111-127.	4.4	255
7	Sensing organic analytes by metal-organic frameworks: a new way of considering the topic. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1598-1632.	6.0	253
8	Switching in Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4652-4669.	13.8	211
9	Application of Mechanothesized Azine-Decorated Zinc(II) Metal-Organic Frameworks for Highly Efficient Removal and Extraction of Some Heavy-Metal Ions from Aqueous Samples: A Comparative Study. <i>Inorganic Chemistry</i> , 2015, 54, 425-433.	4.0	209
10	Applications of ultrasound to the synthesis of nanoscale metal-organic coordination polymers. <i>Coordination Chemistry Reviews</i> , 2015, 292, 1-14.	18.8	183
11	Metal-Organic Framework Derived Bimetallic Materials for Electrochemical Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11048-11067.	13.8	179
12	The role of the counter-ion in metal-organic frameworks™ chemistry and applications. <i>Coordination Chemistry Reviews</i> , 2018, 376, 319-347.	18.8	177
13	Linker functionalized metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2019, 399, 213023.	18.8	170
14	Metal ion detection using luminescent-MOFs: Principles, strategies and roadmap. <i>Coordination Chemistry Reviews</i> , 2020, 415, 213299.	18.8	158
15	Metal-organic frameworks based on multicarboxylate linkers. <i>Coordination Chemistry Reviews</i> , 2021, 426, 213542.	18.8	158
16	Lead(II) carboxylate supramolecular compounds: Coordination modes, structures and nano-structures aspects. <i>Coordination Chemistry Reviews</i> , 2011, 255, 2821-2859.	18.8	155
17	Pillar-layered MOFs: functionality, interpenetration, flexibility and applications. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19288-19329.	10.3	152
18	Selective CO <sub>2</sub> Capture in Metal-Organic Frameworks with Azine-Functionalized Pores Generated by Mechanoynthesis. <i>Crystal Growth and Design</i> , 2014, 14, 2092-2096.	3.0	148

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19	Reuse of Pre-designed Dual-Functional Metal Organic Frameworks (DF-MOFs) after Heavy Metal Removal. <i>Journal of Hazardous Materials</i> , 2021, 403, 123696.	12.4	137
20	Ordered Mesoporous Metal-Organic Frameworks Incorporated with Amorphous TiO <sub>2</sub> As Photocatalyst for Selective Aerobic Oxidation in Sunlight Irradiation. <i>ACS Catalysis</i> , 2014, 4, 1398-1403.	11.2	136
21	Rapid mechanochemical synthesis of two new Cd(II)-based metal-organic frameworks with high removal efficiency of Congo red. <i>CrystEngComm</i> , 2015, 17, 686-692.	2.6	136
22	Thallium(I) supramolecular compounds: Structural and properties consideration. <i>Coordination Chemistry Reviews</i> , 2010, 254, 1977-2006.	18.8	130
23	Two Dimensional Host-Guest Metal-Organic Framework Sensor with High Selectivity and Sensitivity to Picric Acid. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 21472-21479.	8.0	129
24	High capacity Hg(II) and Pb(II) removal using MOF-based nanocomposite: Cooperative effects of pore functionalization and surface-charge modulation. <i>Journal of Hazardous Materials</i> , 2020, 387, 121667.	12.4	127
25	First-row transition metal-based materials derived from bimetallic metal-organic frameworks as highly efficient electrocatalysts for electrochemical water splitting. <i>Energy and Environmental Science</i> , 2022, 15, 3119-3151.	30.8	125
26	Mixed-Metal MOFs: Unique Opportunities in Metal-Organic Framework (MOF) Functionality and Design. <i>Angewandte Chemie</i> , 2019, 131, 15330-15347.	2.0	124
27	Chitosan Immobilization on Bio-MOF Nanostructures: A Biocompatible pH-Responsive Nanocarrier for Doxorubicin Release on MCF-7 Cell Lines of Human Breast Cancer. <i>Inorganic Chemistry</i> , 2018, 57, 13364-13379.	4.0	122
28	Lanthanide metal-organic frameworks as selective microporous materials for adsorption of heavy metal ions. <i>Dalton Transactions</i> , 2016, 45, 9193-9200.	3.3	121
29	PMo <sub>12</sub> @UiO-67 nanocomposite as a novel non-leaching catalyst with enhanced performance durability for sulfur removal from liquid fuels with exceptionally diluted oxidant. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119582.	20.2	118
30	Mechanosynthesis of new azine-functionalized Zn(II) metal-organic frameworks for improved catalytic performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 16863-16866.	10.3	117
31	Investigation of reasons for metal-organic framework <sup>TM</sup> s antibacterial activities. <i>Polyhedron</i> , 2018, 156, 257-278.	2.2	112
32	An Asymmetric Supercapacitor Based on a Non-Calcined 3D Pillared Cobalt(II) Metal-Organic Framework with Long Cyclic Stability. <i>Inorganic Chemistry</i> , 2019, 58, 16100-16111.	4.0	111
33	Morphological study and potential applications of nano metal-organic coordination polymers. <i>RSC Advances</i> , 2013, 3, 19191.	3.6	110
34	Simultaneous Presence of Open Metal Sites and Amine Groups on a 3D Dy(III)-Metal-Organic Framework Catalyst for Mild and Solvent-Free Conversion of CO <sub>2</sub> to Cyclic Carbonates. <i>Inorganic Chemistry</i> , 2021, 60, 2056-2067.	4.0	105
35	Metal-organic framework composites as green/sustainable catalysts. <i>Coordination Chemistry Reviews</i> , 2021, 436, 213827.	18.8	105
36	Metal-Organic Framework Based on Isonicotinate N-Oxide for Fast and Highly Efficient Aqueous Phase Cr(VI) Adsorption. <i>Inorganic Chemistry</i> , 2016, 55, 5507-5513.	4.0	104

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37	Counter-ion influence on the coordination mode of the 2,5-bis(4-pyridyl)-1,3,4-oxadiazole (bpo) ligand in mercury(ii) coordination polymers, [Hg(bpo) <sub>n</sub> X <sub>2</sub> ]: X = I <sup>-</sup> , Br <sup>-</sup> , SCN <sup>-</sup> , N <sub>3</sub> <sup>-</sup> and NO <sub>2</sub> <sup>-</sup> ; spectroscopic, thermal, fluorescence and structural studies. <i>CrystEngComm</i> , 2007, 9, 1062.	2.6	101
38	Modulating methane storage in anionic nano-porous MOF materials via post-synthetic cation exchange process. <i>Dalton Transactions</i> , 2013, 42, 4786.	3.3	100
39	Mercury(ii) coordination polymers generated from 1,4-bis(2 or 3 or 4-pyridyl)-2,3-diaza-1,3-butadiene ligands. <i>CrystEngComm</i> , 2007, 9, 704.	2.6	99
40	Dual-Purpose 3D Pillared Metal-Organic Framework with Excellent Properties for Catalysis of Oxidative Desulfurization and Energy Storage in Asymmetric Supercapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 14759-14773.	8.0	97
41	Sonochemical synthesis of a new nano-structures bismuth(III) supramolecular compound: New precursor for the preparation of bismuth(III) oxide nano-rods and bismuth(III) iodide nano-wires. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 139-144.	8.2	93
42	Urea Metal-Organic Frameworks for Nitro-Substituted Compounds Sensing. <i>Inorganic Chemistry</i> , 2017, 56, 1446-1454.	4.0	92
43	Influence of an amine group on the highly efficient reversible adsorption of iodine in two novel isorecticular interpenetrated pillared-layer microporous metal-organic frameworks. <i>CrystEngComm</i> , 2014, 16, 8660-8663.	2.6	91
44	Application of Two Cobalt-Based Metal-Organic Frameworks as Oxidative Desulfurization Catalysts. <i>Inorganic Chemistry</i> , 2015, 54, 11269-11275.	4.0	90
45	Ultrasound-promoted coating of MOF-5 on silk fiber and study of adsorptive removal and recovery of hazardous anionic dye Congo red. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1424-1429.	8.2	89
46	Magnetic metal-organic frameworks for the extraction of trace amounts of heavy metal ions prior to their determination by ICP-AES. <i>Mikrochimica Acta</i> , 2017, 184, 1555-1564.	5.0	88
47	A MoO <sub>3</sub> -Metal-Organic Framework Composite as a Simultaneous Photocatalyst and Catalyst in the PODS Process of Light Oil. <i>ACS Catalysis</i> , 2017, 7, 6949-6956.	11.2	87
48	Synthesis ZnO nanoparticles from a new Zinc(II) coordination polymer precursor. <i>Materials Letters</i> , 2010, 64, 4-5.	2.6	86
49	Double Solvent Sensing Method for Improving Sensitivity and Accuracy of Hg(II) Detection Based on Different Signal Transduction of a Tetrazine-Functionalized Pillared Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2017, 56, 9646-9652.	4.0	86
50	Bilateral photocatalytic mechanism of dye degradation by a designed ferrocene-functionalized cluster under natural sunlight. <i>Catalysis Science and Technology</i> , 2020, 10, 757-767.	4.1	85
51	Highly sensitive and selective ratiometric fluorescent metal-organic framework sensor to nitroaniline in presence of nitroaromatic compounds and VOCs. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 353-360.	7.8	81
52	Basic isorecticular nanoporous metal-organic framework for Biginelli and Hantzsch coupling: IRMOF-3 as a green and recoverable heterogeneous catalyst in solvent-free conditions. <i>RSC Advances</i> , 2014, 4, 10514.	3.6	80
53	High specific capacitance of a 3D-metal-organic framework-confined growth in CoMn <sub>2</sub> O <sub>4</sub> nanostars as advanced supercapacitor electrode materials. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11001-11012.	10.3	80
54	Shape Control of Zn(II) Metal-Organic Frameworks by Modulation Synthesis and Their Morphology-Dependent Catalytic Performance. <i>Crystal Growth and Design</i> , 2015, 15, 2533-2538.	3.0	78

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55	Fast and Selective Heavy Metal Removal by a Novel Metal-Organic Framework Designed with In-Situ Ligand Building Block Fabrication Bearing Free Nitrogen. <i>Chemistry - A European Journal</i> , 2018, 24, 5529-5537.	3.3	78
56	Electrochemical Applications of Ferrocene-Based Coordination Polymers. <i>ChemPlusChem</i> , 2020, 85, 2397-2418.	2.8	77
57	Highly Electroconductive Metal-Organic Framework: Tunable by Metal Ion Sorption Quantity. <i>Journal of the American Chemical Society</i> , 2019, 141, 11173-11182.	13.7	76
58	Nano-structures of two new lead(II) coordination polymers: New precursors for preparation of PbS nano-structures. <i>Solid State Sciences</i> , 2008, 10, 1591-1597.	3.2	75
59	Sonochemical synthesis and structural characterization of a new Zn(II) nanoplate metal-organic framework with removal efficiency of Sudan red and Congo red. <i>Ultrasonics Sonochemistry</i> , 2018, 45, 50-56.	8.2	75
60	Ultrasound assisted synthesis of a Zn(II) metal-organic framework with nano-plate morphology using non-linear dicarboxylate and linear N-donor ligands. <i>RSC Advances</i> , 2014, 4, 47894-47898.	3.6	74
61	Influence of the Amide Groups in the CO <sub>2</sub> /N <sub>2</sub> Selectivity of a Series of Isorecticular, Interpenetrated Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2016, 16, 6016-6023.	3.0	73
62	Sonochemical synthesis of nanoscale mixed-ligands lead(II) coordination polymers as precursors for preparation of Pb <sub>2</sub> (SO <sub>4</sub> )O and PbO nanoparticles; thermal, structural and X-ray powder diffraction studies. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 435-440.	8.2	72
63	Ultrafast post-synthetic modification of a pillared cobalt(II)-based metal-organic framework via sulfurization of its pores for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 11953-11966.	10.3	72
64	Enhanced electrochemical oxygen and hydrogen evolution reactions using an NU-1000@NiMn-LDHS composite electrode in alkaline electrolyte. <i>Chemical Communications</i> , 2020, 56, 6652-6655.	4.1	70
65	Porosity and dye adsorption enhancement by ultrasonic synthesized Cd(II) based metal-organic framework. <i>Ultrasonics Sonochemistry</i> , 2017, 37, 244-250.	8.2	69
66	A Luminescent Amine-Functionalized Metal-Organic Framework Conjugated with Folic Acid as a Targeted Biocompatible pH-Responsive Nanocarrier for Apoptosis Induction in Breast Cancer Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 45442-45454.	8.0	69
67	Highly sensitive fluorescent metal-organic framework as a selective sensor of Mn(VII) and Cr(VI) anions (MnO <sub>4</sub> <sup>-</sup> /CrO <sub>7</sub> <sup>2-</sup> /CrO <sub>4</sub> <sup>2-</sup> ) in aqueous solutions. <i>Analytica Chimica Acta</i> , 2019, 1064, 119-125.	5.4	69
68	Stimuli-Responsive Metal-Organic Framework (MOF) with Chemo-Switchable Properties for Colorimetric Detection of CHCl <sub>3</sub> . <i>Chemistry - A European Journal</i> , 2017, 23, 12559-12564.	3.3	68
69	Mixed Metal Fe <sub>2</sub> /Ni MIL-88B Metal-Organic Frameworks Decorated on Reduced Graphene Oxide as a Robust and Highly Efficient Electrocatalyst for Alkaline Water Oxidation. <i>Inorganic Chemistry</i> , 2022, 61, 3396-3405.	4.0	68
70	Hedge balls nano-structure of a mixed-ligand lead(II) coordination polymer; thermal, structural and X-ray powder diffraction studies. <i>CrystEngComm</i> , 2010, 12, 370-372.	2.6	67
71	Microwave assisted synthesis of a new lead(II) porous three-dimensional coordination polymer: study of nanostructured size effect on high iodide adsorption affinity. <i>CrystEngComm</i> , 2012, 14, 779-781.	2.6	66
72	An advanced composite with ultrafast photocatalytic performance for the degradation of antibiotics by natural sunlight without oxidizing the source over TMU-5@Ni-Ti LDH: mechanistic insight and toxicity assessment. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2287-2304.	6.0	66

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73	Urea-Based Metal-Organic Frameworks as High and Fast Adsorbent for Hg <sup>2+</sup> and Pb <sup>2+</sup> Removal from Water. <i>Inorganic Chemistry</i> , 2019, 58, 180-187.	4.0	65
74	Phenolic nitroaromatics detection by fluorinated metal-organic frameworks: Barrier elimination for selective sensing of specific group of nitroaromatics. <i>Journal of Hazardous Materials</i> , 2021, 406, 124501.	12.4	65
75	Chiral metal-organic frameworks based on asymmetric synthetic strategies and applications. <i>Coordination Chemistry Reviews</i> , 2021, 445, 214083.	18.8	65
76	Water-stable fluorinated metal-organic frameworks (F-MOFs) with hydrophobic properties as efficient and highly active heterogeneous catalysts in aqueous solution. <i>Green Chemistry</i> , 2018, 20, 5336-5345.	9.0	64
77	Syntheses and characterization of different zinc(II) oxide nano-structures from direct thermal decomposition of 1D coordination polymers. <i>Polyhedron</i> , 2010, 29, 801-806.	2.2	63
78	Influence of Halogen Bonding Interaction on Supramolecular Assembly of Coordination Compounds; Head-to-Tail N-A-X Synthon Repetitiveness. <i>Inorganic Chemistry</i> , 2013, 52, 2891-2905.	4.0	63
79	Influence of Gas Oil Contamination on Geotechnical Properties of Fine and Coarse-Grained Soils. <i>Geotechnical and Geological Engineering</i> , 2016, 34, 333-345.	1.7	63
80	High organic sulfur removal performance of a cobalt based metal-organic framework. <i>Journal of Hazardous Materials</i> , 2017, 331, 142-149.	12.4	63
81	High adsorption capacity of two Zn-based metal-organic frameworks by ultrasound assisted synthesis. <i>Ultrasonics Sonochemistry</i> , 2016, 33, 54-60.	8.2	62
82	Functional group effect of isoreticular metal-organic frameworks on heavy metal ion adsorption. <i>New Journal of Chemistry</i> , 2018, 42, 8864-8873.	2.8	62
83	(4,4'-Bipyridine)mercury(II) Coordination Polymers, Syntheses, and Structures. <i>Helvetica Chimica Acta</i> , 2006, 89, 81-93.	1.6	60
84	Syntheses and characterization of nano-scale of the MnII complex with 4-(4-pyridyl)-2,2,6,6-tetrapyridine (pyterpy): The influence of the nano-structure upon catalytic properties. <i>Inorganica Chimica Acta</i> , 2009, 362, 3427-3432.	2.4	59
85	Improvement of Methane Framework Interaction by Controlling Pore Size and Functionality of Pillared MOFs. <i>Inorganic Chemistry</i> , 2017, 56, 2581-2588.	4.0	59
86	Zinc(ii) nitrite coordination polymers based on rigid and flexible organic nitrogen donor ligands. <i>CrystEngComm</i> , 2007, 9, 686.	2.6	58
87	High photodegradation efficiency of phenol by mixed-metal-organic frameworks. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 944-951.	6.0	58
88	Ultrasonic assisted synthesis of a tetrazine functionalized MOF and its application in colorimetric detection of phenylhydrazine. <i>Ultrasonics Sonochemistry</i> , 2017, 37, 502-508.	8.2	58
89	A comparative study of adsorption and removal of organophosphorus insecticides from aqueous solution by Zr-based MOFs. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 80, 83-92.	5.8	58
90	Instantaneous Sonophotocatalytic Degradation of Tetracycline over NU-1000@ZnIn <sub>2</sub> S <sub>4</sub> Core-Shell Nanorods as a Robust and Eco-friendly Catalyst. <i>Inorganic Chemistry</i> , 2021, 60, 9660-9672.	4.0	57

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91	Hg(II), Tl(III), Cu(I), and Pd(II) Complexes with 2,2'-Diphenyl-4,4'-Bithiazole (DPBTZ), Syntheses and X-Ray Crystal Structure of [Hg(DPBTZ)(SCN) <sub>2</sub> ]. <i>Journal of Coordination Chemistry</i> , 2003, 56, 779-785.	2.2	56
92	Effects of Extending the $\pi$ -Electron System of Pillaring Linkers on Fluorescence Sensing of Aromatic Compounds in Two Isorecticular Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2015, 15, 5543-5547.	3.0	56
93	Heterogeneous catalysis with a coordination modulation synthesized MOF: morphology-dependent catalytic activity. <i>New Journal of Chemistry</i> , 2017, 41, 3957-3965.	2.8	56
94	Dynamic crystal-to-crystal conversion of a 3D $\leftrightarrow$ 3D coordination polymer by de- and re-hydration. <i>Dalton Transactions</i> , 2008, , 5173.	3.3	55
95	Two-dimensional coordination polymer involving eight-membered binuclear metallacycle nodes, [Zn( $\frac{1}{2}$ -OAc) <sub>2</sub> Zn]( $\frac{1}{4}$ -bpe) <sub>3</sub> ]n(ClO <sub>4</sub> ) <sub>2n</sub> . <i>Inorganic Chemistry Communication</i> , 2005, 8, 460-462.	3.9	54
96	Urea-containing metal-organic frameworks as heterogeneous organocatalysts. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20408-20415.	10.3	54
97	Sonochemical synthesis of nanoplates of two Cd(II) based metal-organic frameworks and their applications as precursors for preparation of nano-materials. <i>Ultrasonics Sonochemistry</i> , 2016, 28, 240-249.	8.2	54
98	Facile preparation of nanocubes zinc-based metal-organic framework by an ultrasound-assisted synthesis method; precursor for the fabrication of zinc oxide octahedral nanostructures. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 921-928.	8.2	54
99	Ultrasonic-assisted synthesis of Ca(OH) <sub>2</sub> and CaO nanostructures. <i>Journal of Experimental Nanoscience</i> , 2010, 5, 93-105.	2.4	53
100	Structural influence of counter-ions in lead(II) complexes: [Pb(phen) <sub>n</sub> (NO <sub>2</sub> )X], X=CH <sub>3</sub> COO <sup>-</sup> , NCS <sup>-</sup> and , phen=1,10-phenanthroline. <i>Solid State Sciences</i> , 2005, 7, 1429-1437.	3.2	52
101	Bonds and lone pairs in the flexible coordination sphere of lead(II). <i>CrystEngComm</i> , 2000, 2, 82.	2.6	51
102	Ultrasonic assisted synthesis of two new coordination polymers and their applications as precursors for preparation of nano-materials. <i>Ultrasonics Sonochemistry</i> , 2017, 34, 984-992.	8.2	51
103	A Novel Three-Dimensional Coordination Polymer Involving Pb <sub>2</sub> Pb Interactions and Three Different Hemidirected Lead(II) Coordination Spheres: X-Ray Crystal Structure of Tris(1,10-phenanthroline- $\lambda^5$ N1, $\lambda^6$ N10)bis[ $\frac{1}{4}$ -[5-(sulfo- $\lambda^6$ O)benzene-1,3-dicarboxylate(3 $\lambda^7$ )- $\lambda^6$ O1, $\lambda^6$ O1 $\hat{=}$ $\lambda^6$ O2, $\lambda^6$ O2 $\hat{=}$ $\lambda^6$ O2]}]trilead (Pb <sub>2</sub> Pb) Trihydrate ([Pb <sub>3</sub> (phen) <sub>3</sub> (H <sub>2</sub> O) <sub>2</sub> (sip) <sub>2</sub> ]n $\cdot$ ...3 $\hat{=}$ ...H <sub>2</sub> O). <i>Helvetica Chimica Acta</i> , 2005, 88, 2543-2549.		50
104	TlI three-dimensional coordination polymer involving tetranuclear cubic cage nodes, [Tl <sub>4</sub> ( $\frac{1}{4}$ -SB) <sub>2</sub> ]n{H <sub>2</sub> SB=4-[(4-hydroxyphenyl)sulfonyl]-1-benzenol}. <i>Inorganic Chemistry Communication</i> , 2006, 9, 143-146.	3.9	50
105	Selective detection and removal of mercury ions by dual-functionalized metal-organic frameworks: design-for-purpose. <i>New Journal of Chemistry</i> , 2019, 43, 18079-18091.	2.8	49
106	Silver nanofibers from the nanorods of one-dimensional organometallic coordination polymers. <i>CrystEngComm</i> , 2010, 12, 3394.	2.6	48
107	Morphology-dependent sensing performance of dihydro-tetrazine functionalized MOF toward Al(III). <i>Ultrasonics Sonochemistry</i> , 2018, 41, 17-26.	8.2	48
108	Simple One-Pot Preparation of a Rapid Response AIE Fluorescent Metal-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 36259-36266.	8.0	48

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109	An effective strategy for creating asymmetric MOFs for chirality induction: a chiral Zr-based MOF for enantioselective epoxidation. <i>Catalysis Science and Technology</i> , 2019, 9, 3388-3397.	4.1	48
110	Size-Selective Urea-Containing Metal-Organic Frameworks as Receptors for Anions. <i>Inorganic Chemistry</i> , 2020, 59, 16421-16429.	4.0	48
111	A new lead(II) complex of 2,2'-bipyridine, acetate and thiocyanate ligands: synthesis, characterization and crystal structure of [Pb(bpy)(NCS)(CH <sub>3</sub> COO)] n. <i>Journal of Coordination Chemistry</i> , 2004, 57, 1233-1241.	2.2	47
112	High efficiency of mechanothesized Zn-based metal-organic frameworks in photodegradation of Congo red under UV and visible light. <i>RSC Advances</i> , 2016, 6, 13272-13277.	3.6	47
113	Structural transformations and solid-state reactivity involving nano lead(II) coordination polymers via thermal, mechanochemical and photochemical approaches. <i>Coordination Chemistry Reviews</i> , 2016, 310, 116-130.	18.8	47
114	Amine-Functionalized Metal-Organic Frameworks: from Synthetic Design to Scrutiny in Application. <i>Coordination Chemistry Reviews</i> , 2022, 459, 214445.	18.8	47
115	Modulated formation of metal-organic frameworks by oriented growth over mesoporous silica. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3047.	10.3	46
116	Sonochemical syntheses of a new fibrous-like nano-scale manganese(II) coordination supramolecular compound; precursor for the fabrication of octahedral-like Mn <sub>3</sub> O <sub>4</sub> nano-structure. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 253-261.	8.2	46
117	An interpenetrating amine-functionalized metal-organic framework as an efficient and reusable catalyst for the selective synthesis of tetrahydro-chromenes. <i>CrystEngComm</i> , 2015, 17, 1680-1685.	2.6	45
118	Electrochemical synthesis of pillared layer mixed ligand metal-organic framework: DMOF-1-Zn. <i>RSC Advances</i> , 2015, 5, 36547-36551.	3.6	45
119	Synthesis of Polycarboxylate Rhodium(II) Metal-Organic Polyhedra (MOPs) and their use as Building Blocks for Highly Connected Metal-Organic Frameworks (MOFs). <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5729-5733.	13.8	45
120	Nanoscale Metal-Organic Frameworks: Recent developments in synthesis, modifications and bioimaging applications. <i>Chemosphere</i> , 2021, 281, 130717.	8.2	45
121	Reversible solid state structural transformation of a polyhaptto lead(ii) polymeric chain to a tetrahaptto lead(ii) two-dimensional network by thermal dehydration with no change in nanoplate morphology. <i>CrystEngComm</i> , 2011, 13, 2047.	2.6	44
122	Ultrasound-assisted synthesis of nano-structured 3D zinc(II) metal-organic polymer: Precursor for the fabrication of ZnO nano-structure. <i>Ultrasonics Sonochemistry</i> , 2015, 23, 238-245.	8.2	44
123	Syntheses and Characterization of Mixed-Anions Lead(II) Complexes, [Pb(phen) <sub>2</sub> (CH <sub>3</sub> COO)] <sub>n</sub> (X=NCS <sup>-</sup> ), <i>Tj ETQq1 1 0.784314 rgB</i> <i>Und Allgemeine Chemie</i> , 2003, 629, 2596-2599.	1.2	43
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