

Farhad Akbari Afkhami

List of Publications by Year in descending order

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38
papers

661
citations

623699

14
h-index

580810

25
g-index

39
all docs

39
docs citations

39
times ranked

660
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and molecular dynamics study on dye removal from water by a graphene oxide-copper-metal organic framework nanocomposite. <i>Journal of Water Process Engineering</i> , 2020, 34, 101180.	5.6	95
2	Toward Sustainable Tackling of Biofouling Implications and Improved Performance of TFC FO Membranes Modified by Ag-MOF Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38285-38298.	8.0	80
3	Tailoring the Biocidal Activity of Novel Silver-Based Metal Azolate Frameworks. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7588-7599.	6.7	48
4	Chelate ring stacking interactions in the supramolecular assemblies of Zn(II) and Cd(II) coordination compounds: a combined experimental and theoretical study. <i>CrystEngComm</i> , 2017, 19, 1389-1399.	2.6	36
5	Solvent-driven azide-induced mononuclear discrete versus one-dimensional polymeric aromatic M ^{II} bius cadmium(II) complexes of an N ₆ tetradentate helical ligand. <i>Dalton Transactions</i> , 2017, 46, 14888-14896.	3.3	35
6	Modulation of coordination in pincer-type isonicotinothiazone Schiff base ligands by proton transfer. <i>CrystEngComm</i> , 2019, 21, 108-117.	2.6	34
7	Anion influence in the structural diversity of cadmium coordination polymers constructed from a pyridine based Schiff base ligand. <i>Inorganica Chimica Acta</i> , 2015, 427, 87-96.	2.4	32
8	Supramolecular lead(II) architectures engineered by tetrel bonds. <i>CrystEngComm</i> , 2020, 22, 2389-2396.	2.6	29
9	Synthesis, X-ray characterization, DFT calculations and Hirshfeld surface analysis of Zn(II) and Cd(II) complexes based on isonicotinothiazone ligand. <i>CrystEngComm</i> , 2016, 18, 4587-4596.	2.6	27
10	Supramolecular architecture constructed from the hemidirected lead(II) complex with N'-(4-hydroxybenzylidene)isonicotinothiazide. <i>Inorganica Chimica Acta</i> , 2020, 502, 119350.	2.4	25
11	Chemistry, abundance, detection and treatment of per- and polyfluoroalkyl substances in water: a review. <i>Environmental Chemistry Letters</i> , 2022, 20, 661-679.	16.2	21
12	New cadmium(II) and zinc(II) coordination polymers derived from a pyridine-hydrazone block: Self-assembly generation, structural and topological features, and theoretical analysis. <i>Inorganica Chimica Acta</i> , 2017, 458, 68-76.	2.4	16
13	Lead(II) coordination polymers driven by pyridine-hydrazine donors: from anion-guided self-assembly to structural features. <i>Dalton Transactions</i> , 2020, 49, 11238-11248.	3.3	16
14	Tetranuclear Mn ^{II} /Zn ^{II} and Novel Azido-Bridged Chair-Shaped Heptanuclear Cd ^{II} Compounds: The Effect of Metal Ion and Coordination Mode of the Azide Group on the Structure of the Products. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 262-270.	2.0	15
15	Synthesis, Characterization and Crystal Structure of Zn(II) and Cd(II) One- and Two-Dimensional Coordination Polymers Derived from Pyridine Based Schiff Base ligand. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 860-868.	3.7	13
16	Halide ion-driven self-assembly of Zn(II) compounds derived from an asymmetrical hydrazone building block: a combined experimental and theoretical study. <i>New Journal of Chemistry</i> , 2016, 40, 10116-10126.	2.8	11
17	Effect of Solvent on the Structural Diversity of Quasi-Aromatic M ^{II} bius Cadmium(II) Complexes Fabricated from the Bulky N ₆ Tetradentate Helical Ligand. <i>Crystal Growth and Design</i> , 2019, 19, 1649-1659.	3.0	11
18	A new coordination polymer constructed from Pb(NO ₃) ₂ and a benzylideneisonicotinothiazide derivative: Coordination-induced generation of a hole towards a tetrel-bonding stabilized structure. <i>Journal of Molecular Structure</i> , 2021, 1234, 130139.	3.6	11

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19	Mercury (II) coordination complexes bearing Schiff base ligands: What affects their nuclearity and/or dimensionality. <i>Polyhedron</i> , 2015, 93, 46-54.	2.2	10
20	Structural versatility of the quasi-aromatic M ^{II} tridentate zinc(ii)-pseudohalide complexes: experimental and theoretical investigations. <i>RSC Advances</i> , 2019, 9, 23764-23773.	3.6	10
21	Crystal structure, Hirshfeld surface, DFT and BSA binding studies of dihydropyrazole-1-thiocarboxamides. <i>Journal of Molecular Structure</i> , 2019, 1196, 662-675.	3.6	10
22	Metal chelates constructed from CdHal ₂ (Hal = Cl, Br, I) and 1,2-diphenyl-1,2-bis((phenyl(pyridin-2-yl)methylene)hydrazono)ethane. <i>Journal of Molecular Structure</i> , 2019, 1176, 743-750.	3.6	9
23	M ^{II} tridentate-like metal chelates constructed from CdHal ₂ (Hal = Cl, Br, I) and benzilbis(pyridin-2-yl)methylidenehydrazono. <i>Inorganica Chimica Acta</i> , 2019, 484, 481-490.	2.4	9
24	A supramolecular 3D structure constructed from a new metal chelate self-assembled from Sn(NCS) ₂ and phenyl(pyridin-2-yl)methylenepicolinohydrazide. <i>Journal of Molecular Structure</i> , 2021, 1224, 129188.	3.6	8
25	Dibromido{[N ²⁻ -[1-(pyridin-2-yl)ethylidene]picolinohydrazide- ²⁻ N ²⁻ ,O]}cadmium. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, m842-m842.	0.2	7
26	Design and construction of Zn(II) coordination polymers made by pincer type pyridine-hydrazine based ligands. <i>Journal of Molecular Structure</i> , 2019, 1197, 555-563.	3.6	7
27	Sonochemical Synthesis of Cadmium(II) Coordination Polymer Nanospheres as Precursor for Cadmium Oxide Nanoparticles. <i>Crystals</i> , 2019, 9, 199.	2.2	7
28	Solvent-Induced Formation of Novel Ni(II) Complexes Derived from Bis-Thiosemicarbazone Ligand: An Insight from Experimental and Theoretical Investigations. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5337.	4.1	6
29	Di- ^{1/4} -chlorido-bis(chlorido{[N ²⁻ -[phenyl(pyridin-2-yl)N ¹ methylidene]pyridine-2-carbohydrazide- ²⁻ N ²⁻ ,O]}cadmium). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, m213-m214.	0.2	5
30	Complexes of BiCl ₃ with hydrazone derived ligands: a M ^{II} tridentate-like discrete metal chelate versus a salt-like porous polymeric structure. <i>New Journal of Chemistry</i> , 2020, 44, 9429-9437.	2.8	5
31	The anticancer properties of metal-organic frameworks and their heterogeneous nanocomposites. , 2022, 139, 213013.		5
32	Crystal structures of dibromido{[N ²⁻ -[(pyridin-2-yl)N ¹ methylidene]picolinohydrazide- ²⁻ N ²⁻ ,O]}cadmium methanol monosolvate and diiodido{[N ²⁻ -[(pyridin-2-yl)N ¹ methylidene]picolinohydrazide- ²⁻ N ²⁻ ,O]}cadmium. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017, 73, 698-701.	0.5	4
33	Crystal structure of bis{[N ²⁻ -[(E)-4-hydroxybenzylidene]pyridine-4-carbohydrazide- ²⁻ N ²⁻ ,O]}diiodidocadmium methanol disolvate. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017, 73, 28-30.	0.5	2
34	Effect of Fe ³⁺ /MMT nanocomposite content on thermal, mechanical and water resistance behavior of PVP/amylose films. <i>Polymer Bulletin</i> , 2020, 77, 6491-6508.	3.3	1
35	A novel paramagnetic coordination polymer, fabricated from Co(NCS) ₂ and 2-pyridinecarbaldehyde isonicotinoylhydrazono. <i>Inorganica Chimica Acta</i> , 2021, 522, 120335.	2.4	1
36	Crystal structure and Hirshfeld surface analysis of diiodido{[N ²⁻ -[(E)-4-hydroxybenzylidene]pyridine-4-carbohydrazide- ²⁻ N ²⁻ ,O]}cadmium(II). <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019, 75, 1061-1064.	0.5	0

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37	Quasi-aromatic Möbius chelates of Cadmium(II) nitrite and/or nitrate.. CrystEngComm, 0, , .	2.6	0
38	Coordination polymers fabricated from Cd(NO ₃) ₂ and N,N',O-pincer type isonicotinoylhydrazone based polytopic ligands – an insight from experimental and theoretical investigations. CrystEngComm, 0, , .	2.6	0