Mohammad Hedayetullah Mir

List of Publications by Year in Descending Order

61 papers	1,307 citations	20 h-index	35 g-index
65 ext. papers	1,577 ext. citations	4 avg, IF	4.92 L-index

#	Paper	IF	Citations
61	Carboxylato Bridged Cyclic SBUs as Robust Features in a Series of Cu(II) Coordination Polymers and Halogen□□Halogen Interactions in Crystal Packing. *Crystal Growth and Design*, **2022**, 22, 1253-1262	3.5	3
60	Topochemical [2 + 2] Cycloaddition in a Two-Dimensional Metal-Organic Framework via SCSC Transformation Impacts HalogenHalogen Interactions.. *Inorganic Chemistry*, **2022**,	5.1	3
59	In Situ Trans□Cis Isomerization of Naphthylvinylpyridine Ligand in a Zinc(II) Coordination Polymer: Liquid and Vapor Phase Sensing of Mutagenic Pollutants and Nitroexplosives. *ACS Applied Polymer Materials*, **2022**, 4, 2841-2850	4.3	0
58	A muconate bridged bipyridyl appended binuclear Cu(II) complex reveals dissimilar affinities to DNA and BSA protein. *Polyhedron*, **2022**, 219, 115813	2.7	0
57	Synthesis, characterization and exploration of supramolecular interactions of a Cu(II) based 1D zig-zag coordination polymer: X-ray structure determination and DFT study. *Inorganica Chimica Acta* , **2022**, 536, 120894	2.7	0
56	cis, cis-Muconato bridged Cd(II) based linear trinuclear SBUs forming 2D MOF: Synthesis, crystal structure, Hirshfeld analysis and photoluminescence study. *Polyhedron*, **2022**, 222, 115901	2.7	0
55	Strategic Design of Anthracene-Decorated Highly Luminescent Coordination Polymers for Selective and Rapid Detection of TNP: An Explosive Nitro Derivative and Mutagenic Pollutant. *Crystal Growth and Design*, **2021**, 21, 3344-3354	3.5	12
54	Fabrication of a halopyridine appended Co(II) based 1D coordination polymer for efficient charge transportation. *Polyhedron*, **2021**, 201, 115159	2.7	1
53	Electrically conductive 1D coordination polymers: design strategies and controlling factors. *Dalton Transactions*, **2021**, 50, 29-38	4.3	8
52	One-pot crystallization of two 1,4-cyclohexanedicarboxylate-based tetranuclear Cu(II) compounds and their DNA binding affinities. *CrystEngComm*, **2021**, 23, 1091-1098	3.3	4
51	Semiconducting properties of pyridyl appended linear dicarboxylate based coordination polymers: theoretical prediction via DFT study. *Dalton Transactions*, **2021**, 50, 270-278	4.3	3
50	Sunlight assisted SCSC dimerization of a 1D coordination polymer impacts the selectivity of Pd(II) sensing in water. *Chemical Communications*, **2021**, 57, 6197-6200	5.8	5
49	Mechanical Motion in Crystals Triggered by Solid State Photochemical [2+2] Cycloaddition Reaction. *Chemistry - an Asian Journal*, **2021**, 16, 2806-2816	4.5	6
48	Exploitation of a Zn(II) paddle wheel metal-organic framework as effective sorbent for the quantitative estimation of cationic and anionic dyes. *Inorganica Chimica Acta*, **2021**, 528, 120595	2.7	2
47	Linear dicarboxylate-based pyridyl-appended cobalt(II) coordination polymers in search of opto-electronic properties. *New Journal of Chemistry*, **2020**, 44, 9004-9009	3.6	2
46	CH□□□(metal□ligand ring) interaction in a mesaconate bridged Cd(II) 1-D coordination polymer: structural elucidation, theoretical study, and photophysical properties. *Journal of Coordination Chemistry*, **2020**, 73, 1106-1118	1.6	
45	Impact of solid-state photochemical [2+2] cycloaddition on coordination polymers for diverse applications. *Dalton Transactions*, **2020**, 49, 9556-9563	4.3	22

44	Supramolecular assembly of a 4-(1-naphthylvinyl)pyridine-appended Zn(II) coordination compound for the turn-on fluorescence sensing of trivalent metal ions (Fe3+, Al3+, and Cr3+) and cell imaging application. *New Journal of Chemistry*, **2020**, 44, 13163-13171	3.6	7
43	Synthesis and characterization of a hydrogen bonded metal-organic cocrystal: Exploration of its DNA binding study. *Polyhedron*, **2020**, 180, 114454	2.7	3
42	Construction of a Succinate-Bridged Cd(II)-Based Two-Dimensional Coordination Polymer for Efficient Optoelectronic Device Fabrication and Explosive Sensing Application. *Crystal Growth and Design*, **2020**, 20, 765-776	3.5	35
41	Synthesis, crystal structure and DNA binding of a new Ni(II) coordination compound based on 4-(1-naphthylvinyl)pyridine ligand. *Polyhedron*, **2020**, 190, 114777	2.7	1
40	Two acetylenedicarboxylato-bridged 4-styrylpyridine appended 1D coordination polymers: synthesis, structural characterization and variable temperature magnetism. *Journal of Chemical Sciences*, **2020**, 132, 1	1.8	5
39	Electrically conductive Cu(II)-based 1D coordination polymer with theoretical insight. *Dalton Transactions*, **2020**, 49, 15323-15331	4.3	3
38	Fabrication of Cu(II) based halobenzoate appended ladder polymers with efficient charge transport properties. *CrystEngComm*, **2020**, 22, 6720-6726	3.3	3
37	Stabilization of cyclic water tetramers and dimers in the crystal host of 2D coordination networks: electrical conductivity and dielectric studies. *New Journal of Chemistry*, **2020**, 44, 15857-15870	3.6	4
36	Supramolecular Aggregate of Cadmium(II)-Based One-Dimensional Coordination Polymer for Device Fabrication and Sensor Application. *Inorganic Chemistry*, **2019**, 58, 2686-2694	5.1	57
35	Metal□gand ring aromaticity in a 2D coordination polymer used as a photosensitive electronic device. *New Journal of Chemistry*, **2019**, 43, 2710-2717	3.6	16
34	Tuning of the para-position of pyridyl ligands impacts the electrical properties of a series of Cd(ii) ladder polymers. *Dalton Transactions*, **2019**, 48, 11259-11267	4.3	18
33	Photodimerization of a 1D Ladder Polymer through Single-Crystal to Single-Crystal Transformation Has an Effect on Electrical Conductivity. *Crystal Growth and Design*, **2019**, 19, 4057-4062	3.5	18
32	An acetylenedicarboxylato-bridged Mn(II)-based 1D coordination polymer: electrochemical CO2 reduction and magnetic properties. *New Journal of Chemistry*, **2019**, 43, 5167-5172	3.6	16
31	Synthesis of a Zn(II)-based 1D zigzag coordination polymer for the fabrication of optoelectronic devices with remarkably high photosensitivity. *Inorganic Chemistry Frontiers*, **2019**, 6, 1245-1252	6.8	26
30	Halogen???□Interactions in Supramolecular Architecture of 1D Coordination Polymers and Their Electrical Conductance. *ChemistrySelect*, **2019**, 4, 3294-3299	1.8	12
29	Sunlight-Induced Topochemical Photodimerization and Switching of the Conductivity of a Metal-Organic Compound. *Inorganic Chemistry*, **2019**, 58, 5419-5422	5.1	15
28	Synthesis and characterization of a new 4-styrylpyridine based square planar copper(II) complex: exploration of phenoxazinone synthase-mimicking activity and DFT study. *Journal of Coordination Chemistry*, **2019**, 72, 2362-2375	1.6	4
27	The sunlight-driven photosalient effect of a 1D coordination polymer and the release of an elusive cyclobutane derivative. *Chemical Communications*, **2019**, 55, 11049-11051	5.8	21

26	Supramolecular assembly of Cu(II)-based 1D coordination polymer: Synthesis, characterization and correlation of band gap. *Journal of Molecular Structure*, **2019**, 1197, 430-435	3.4	6
25	Fabrication of a Zn(II)-Based 2D Pillar Bilayer Metal-Organic Framework for Antimicrobial Activity. *ChemistrySelect*, **2019**, 4, 9947-9951	1.8	12
24	Two zinc(II)-based coordination polymers with flexible dicarboxylate and pyridine mixed ligands: effect of π interactions on electrical activity. *New Journal of Chemistry*, **2019**, 43, 16071-16077	3.6	9
23	Selective detection of trinitrophenol by a Cd(ii)-based coordination compound.. *RSC Advances*, **2019**, 9, 38718-38723	3.7	8
22	Novel Br???(Chelate) Interaction in a 1D Coordination Polymer Revealing Aromaticity. *ChemistrySelect*, **2018**, 3, 4289-4291	1.8	16
21	Cu(II)-Based binuclear compound for the application of photosensitive electronic devices. *New Journal of Chemistry*, **2018**, 42, 8629-8637	3.6	11
20	Effect on Schottky behaviour of 1D coordination polymers by altering para-substituents on benzoate ligands. *New Journal of Chemistry*, **2018**, 42, 13971-13977	3.6	16
19	Supramolecular Assembly of a Zn(II)-Based 1D Coordination Polymer through Hydrogen Bonding and π Interactions: Crystal Structure and Device Applications. *ACS Omega*, **2018**, 3, 12060-12067	3.9	21
18	Electrical property and Schottky behavior of a flexible Schiff-base compound: X-ray structure and stabilization of 1D water chain. *Physical Chemistry Chemical Physics*, **2018**, 20, 24744-24749	3.6	5
17	Two isostructural linear coordination polymers: the size of the metal ion impacts the electrical conductivity. *New Journal of Chemistry*, **2018**, 42, 10309-10316	3.6	19
16	Water Tetramer Confinement and Photosensitive Schottky Behavior of a 2D Coordination Polymer. *ChemistrySelect*, **2018**, 3, 6985-6991	1.8	13
15	Photochemical Structural Transformation of a Linear 1D Coordination Polymer Impacts the Electrical Conductivity. *Inorganic Chemistry*, **2018**, 57, 8029-8032	5.1	55
14	Synthesis of a Cd(II) based 1D coordination polymer by in situ ligand generation and fabrication of a photosensitive electronic device. *Inorganic Chemistry Frontiers*, **2018**, 5, 1998-2005	6.8	33
13	Intercatenated Coordination Polymers (ICPs) of Carboxylato Bridged Zn(II)-Isoniazid and Their Electrical Conductivity. *Crystal Growth and Design*, **2017**, 17, 3267-3276	3.5	41
12	Cation dependent charge transport in linear dicarboxylate based isotypical 1D coordination polymers. *RSC Advances*, **2017**, 7, 10369-10375	3.7	32
11	Synthesis and structural characterization of a Cu(II)-based 1D coordination polymer and its application in Schottky devices. *New Journal of Chemistry*, **2017**, 41, 11317-11323	3.6	22
10	Halogen⋯Halogen Interactions in the Supramolecular Assembly of 2D Coordination Polymers and the CO2 Sorption Behavior. *Crystal Growth and Design*, **2016**, 16, 5514-5519	3.5	35
9	Photochemical cycloaddition on the pore surface of a porous coordination polymer impacts the sorption behavior. *Chemical Communications*, **2012**, 48, 7919-21	5.8	64

8	Formation of unexpected α-amino amidine through three-component Ugi condensation reaction. *RSC Advances*, **2012**, 2, 5506	3.7	31
7	Photoreactive gold(I) macrocycles with diphosphine and trans,trans-muconate ligands. *Chemical Communications*, **2011**, 47, 11633-5	5.8	40
6	Single-crystal to single-crystal photochemical structural transformations of interpenetrated 3 D coordination polymers by [2+2] cycloaddition reactions. *Angewandte Chemie - International Edition*, **2010**, 49, 390-3	16.4	218
5	Water helicate (H(2)O)(7), hosted by a diamondoid metal-organic framework. *Chemical Communications*, **2009**, 4539-41	5.8	38
4	Two- and three-fold interpenetrated metal-organic frameworks from one-pot crystallization. *Inorganic Chemistry*, **2008**, 47, 7728-33	5.1	77
3	Single-Crystal to Single-Crystal Transformation of Cyclic Water Heptamer to Another (H2O)7 Cluster Containing Cyclic Pentamer. *Crystal Growth and Design*, **2008**, 8, 1478-1480	3.5	55
2	Phase transition accompanied by transformation of an elusive discrete cyclic water heptamer to a bicyclic (H2O)7 cluster. *Angewandte Chemie - International Edition*, **2007**, 46, 5925-8	16.4	91
1	Supramolecular Assembly of a Terpyridyl based Binuclear Cu(II) Complex and its DNA Docking Study. *Supramolecular Chemistry*,1-6	1.8	0