

Debajyoti Ghoshal

List of Publications by Year in descending order

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76
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172457

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all docs

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docs citations

78
times ranked

2283
citing authors

#	ARTICLE	IF	CITATIONS
1	A Germanium(II) Hydride as an Effective Reagent for Hydrogermylation Reactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 1288-1293.	13.7	144
2	Synthesis, crystal structure and magnetic behavior of three polynuclear complexes: [Co(pyro) ₂ (dca) ₂] _n , [Co ₃ (ac) ₄ (bpe) ₃ (dca) ₂] _n and [Co(male)(H ₂ O) ₂](H ₂ O)] _n [pyro, pyridine-N-oxide; dca, dicyanamide; ac, acetate; bpe, 1,2-bis-(4-pyridyl)ethane and male, maleate]. <i>New Journal of Chemistry</i> , 2004, 28, 1204.	2.8	88
3	Cd(ii) based metal-organic framework behaving as a Schottky barrier diode. <i>Chemical Communications</i> , 2014, 50, 7858.	4.1	80
4	Selective CO ₂ Adsorption by Nitro Functionalized Metal Organic Frameworks. <i>Crystal Growth and Design</i> , 2016, 16, 1162-1167.	3.0	78
5	Hydrogen-Bonded Assembly of Water and Chloride in a 3D Supramolecular Host. <i>Crystal Growth and Design</i> , 2006, 6, 36-39.	3.0	74
6	Eye-Catching Dual-Fluorescent Dynamic Metal-Organic Framework Senses Traces of Water: Experimental Findings and Theoretical Correlation. <i>Chemistry - A European Journal</i> , 2016, 22, 14998-15005.	3.3	69
7	Sulfonic Group Functionalized Mixed Ligand Coordination Polymers: Synthesis, Characterization, Water Sorption, and Proton Conduction Studies. <i>Inorganic Chemistry</i> , 2017, 56, 1581-1590.	4.0	67
8	A Three-Dimensional Honeycomb-Like Network Constructed with Novel π -Sinusoidal One-Dimensional Chains via Hydrogen Bonding and π - π Interactions. <i>Crystal Growth and Design</i> , 2003, 3, 9-11.	3.0	62
9	Three-Dimensional Robust Porous Coordination Polymer with Schiff Base Site on the Pore Wall: Synthesis, Single-Crystal-to-Single-Crystal Reversibility, and Selective CO ₂ Adsorption. <i>Crystal Growth and Design</i> , 2011, 11, 3905-3911.	3.0	59
10	Four 3D Cd(II)-Based Metal Organic Hybrids with Different N,N ² -Donor Spacers: Syntheses, Characterizations, and Selective Gas Adsorption Properties. <i>Crystal Growth and Design</i> , 2013, 13, 731-739.	3.0	57
11	Structure and properties of dynamic metal-organic frameworks: a brief accounts of crystalline-to-crystalline and crystalline-to-amorphous transformations. <i>CrystEngComm</i> , 2018, 20, 1322-1345.	2.6	54
12	Porous coordination polymers based on functionalized Schiff base linkers: enhanced CO ₂ uptake by pore surface modification. <i>Dalton Transactions</i> , 2014, 43, 2272-2282.	3.3	51
13	Selective carbon dioxide adsorption by mixed-ligand porous coordination polymers. <i>CrystEngComm</i> , 2015, 17, 8388-8413.	2.6	50
14	Set of Multifunctional Azo Functionalized Semiconducting Cd(II)-MOFs Showing Photoswitching Property and Selective CO ₂ Adsorption. <i>Inorganic Chemistry</i> , 2018, 57, 251-263.	4.0	49
15	Benzimidazole linked arylimide based covalent organic framework as gas adsorbing and electrode materials for supercapacitor application. <i>European Polymer Journal</i> , 2017, 93, 448-457.	5.4	47
16	A novel 2D mixed valence copper(i/ii) rectangular grid constructed with pyrazine and croconate. <i>CrystEngComm</i> , 2004, 6, 623.	2.6	45
17	Three mixed ligand coordination polymers: Syntheses, characterization and detailed study of the structural transformations. <i>Polyhedron</i> , 2020, 183, 114534.	2.2	44
18	Structural Diversity in Six Mixed Ligand Zn(II) Metal-Organic Frameworks Constructed by Rigid and Flexible Dicarboxylates and Different N,N ² Donor Ligands. <i>Crystal Growth and Design</i> , 2017, 17, 6613-6624.	3.0	43

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19	Azo Functionalized 5-Nitro-1,3-benzenedicarboxylate Based Coordination Polymers with Different Dimensionality and Functionality. <i>Crystal Growth and Design</i> , 2016, 16, 4793-4804.	3.0	40
20	Syntheses, Structure and Magnetic Properties of the First μ -1,5-Dicyanamido-Bridged Dinuclear Compounds $[\text{Ni}(\mu\text{-}1,5\text{-dca})(\text{dca})(\text{dpt})]_2$ and $[\text{Ni}(\mu\text{-}1,5\text{-dca})(\text{dca})(\text{medpt})]_2$. <i>European Journal of Inorganic Chemistry</i> , 2003, 2003, 3929-3933.	2.0	39
21	Five diverse bivalent metal coordination polymers based on benzene dicarboxylate and bent dipyriddy ligands: syntheses, structures, and photoluminescent properties. <i>CrystEngComm</i> , 2014, 16, 8896-8909.	2.6	39
22	Use of Different Unsaturated Dicarboxylates Toward the Design of New 3D and 2D Networks of Copper(II). <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 4675-4680.	2.0	38
23	Syntheses, X-ray structures, gas adsorption and luminescent properties of three coordination polymers of Zn(scp) dicarboxylates mixed with a linear, neutral, and rigid N, N - C^2 -donor ligand. <i>CrystEngComm</i> , 2014, 16, 4783-4795.	2.6	38
24	Two Series of Isostructural Coordination Polymers with Isomeric Benzenedicarboxylates and Different Azine Based N, N - C^2 -Donor Ligands: Syntheses, Characterization and Magnetic Properties. <i>Crystal Growth and Design</i> , 2015, 15, 4427-4437.	3.0	36
25	Syntheses, X-ray structures, catalytic activity and magnetic properties of two new coordination polymers of Co(scp) and Ni(scp) based on benzenedicarboxylate and linear N, N - C^2 -donor Schiff base linkers. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 414-425.	6.0	35
26	Flexible dicarboxylate based pillar-layer metal organic frameworks: differences in structure and porosity by tuning the pyridyl based N, N - C^2 linkers. <i>CrystEngComm</i> , 2014, 16, 2305.	2.6	33
27	Hydrogen Uptake by an Inclined Polycatenated Dynamic Metal-Organic Framework Based Material. <i>Inorganic Chemistry</i> , 2017, 56, 713-716.	4.0	30
28	Polarity-Induced Excited-State Intramolecular Proton Transfer (ESIPT) in a Pair of Supramolecular Isomeric Multifunctional Dynamic Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2019, 25, 12196-12205.	3.3	30
29	Synthesis of a metal-dicarboxylate hybrid with three dimensional Na-O-Cu connectivity: structure, magnetic property and controlled solid state thermolysis leading to CuO nanorod. <i>Inorganica Chimica Acta</i> , 2005, 358, 1027-1033.	2.4	29
30	A reversible photochemical solid-state transformation in an interpenetrated 3D metal-organic framework with mechanical softness. <i>Chemical Communications</i> , 2019, 55, 12515-12518.	4.1	27
31	Different topologies in heterometallic frameworks of copper(II) with bridging ligand: Syntheses, crystal structures, thermal and magnetic properties. <i>Inorganica Chimica Acta</i> , 2006, 359, 593-602.	2.4	25
32	Towards rational design of supramolecular helices using linear pseudohalides in Cd(ii) - 2,2'-biimidazole system. <i>CrystEngComm</i> , 2007, 9, 304-312.	2.6	25
33	Single-Crystal-to-Single-Crystal Structural Transformation in a Three-Dimensional Bimetallic (4f '' 3d) Supramolecular Porous Framework. <i>Crystal Growth and Design</i> , 2010, 10, 2483-2489.	3.0	25
34	Higher dimensional networks of Mn(II) azide/cyanate using flexible N-donor ligands: Synthesis, crystal structure and magnetic properties. <i>Journal of Molecular Structure</i> , 2006, 796, 195-202.	3.6	24
35	Succinato-bridged copper(II) supramolecular 3D framework: Synthesis, crystal structure and magnetic property. <i>Inorganica Chimica Acta</i> , 2007, 360, 1771-1775.	2.4	24
36	1D/2D coordination polymers of copper(II) having two superexchange pathways: syntheses, crystal structures and magnetic properties. <i>Inorganica Chimica Acta</i> , 2004, 357, 1031-1038.	2.4	23

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37	Syntheses and crystal structures of two new coordination polymers of Cd(II) using organic spacer and inorganic-bridging ligands. <i>Structural Chemistry</i> , 2006, 17, 85-90.	2.0	23
38	Fabrication of metal-organic hybrid architectures using bridging diphenyl phosphate: Syntheses, characterization, magnetic properties and the effect of weak interactions on their crystal packing. <i>Dalton Transactions</i> , 2013, 42, 2094-2106.	3.3	23
39	Pillared-bilayer porous coordination polymers of Zn(II): enhanced hydrophobicity of pore surface by changing the pillar functionality. <i>CrystEngComm</i> , 2015, 17, 3478-3486.	2.6	23
40	Multifunctional mixed ligand metal organic frameworks: X-ray structure, adsorption, luminescence and electrical conductivity with theoretical correlation. <i>CrystEngComm</i> , 2016, 18, 5754-5763.	2.6	23
41	Proton Conductivity and Sorption Study in Three Sulfonic Group Functionalized Mixed Ligand Coordination Polymers and the Impact of Structural Dynamicity on Their Property. <i>Inorganic Chemistry</i> , 2019, 58, 12943-12953.	4.0	23
42	Tuned synthesis of two coordination polymers of Cd(II) using substituted bent 3-pyridyl linker and succinate: structures and their applications in anion exchange and sorption properties. <i>Dalton Transactions</i> , 2015, 44, 20999-21007.	3.3	22
43	Biosurfactant tailored synthesis of porous polypyrrole nanostructures: A facile approach towards CO ₂ adsorption and dopamine sensing. <i>Synthetic Metals</i> , 2018, 245, 209-222.	3.9	21
44	Formation of three new metal organic hybrids of Cd(II) with N,N'-donor spacer: an in situ perchlorate to chloride transformation. <i>CrystEngComm</i> , 2013, 15, 9457.	2.6	20
45	Coligand-Rigidity Induced Interpenetration in Flexible Bis-imidazolyl Type Linker Based Mixed Ligand Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2019, 19, 5152-5160.	3.0	19
46	Dynamic metal-organic frameworks: syntheses, characterizations, sorption studies and their hydrolytic inter-conversion. <i>CrystEngComm</i> , 2016, 18, 4074-4083.	2.6	18
47	Formation of a supramolecular ladder using dinuclear dicyanamide bridged Cu(II) species: Synthesis, crystal structure and magnetic property. <i>Inorganica Chimica Acta</i> , 2006, 359, 690-694.	2.4	16
48	Synthesis, crystal structure and thermal analysis of supramolecular architectures of copper(II)(2,2'-biimidazole) complexes using dicarboxylate as a coligand. <i>Polyhedron</i> , 2007, 26, 4195-4200.	2.2	16
49	Construction of diverse dimensionality in eight coordination polymers of bivalent metal ions using 5-nitroisophthalate and different linear N,N'-donor linkers. <i>Polyhedron</i> , 2015, 102, 634-642.	2.2	14
50	Reversible Phase Transformation in Three Dynamic Mixed-Ligand Metal-Organic Frameworks: Synthesis, Structure, and Sorption Study. <i>Crystal Growth and Design</i> , 2016, 16, 4783-4792.	3.0	14
51	Reversible Switching of Frameworks through Single-Crystal-to-Single-Crystal Structural Transformation in Two Entangled Coordination Polymers and Their Impact on Adsorption Properties. <i>Crystal Growth and Design</i> , 2020, 20, 7667-7674.	3.0	12
52	Synthesis, crystal structure and photo luminescent property of a 3D metal-organic hybrid of Cd(II) constructed by two different bridging carboxylate. <i>Journal of Chemical Sciences</i> , 2013, 125, 661-666.	1.5	11
53	Five coordination polymers of Cd(II) and Co(II) using 3,3'-azobispyridine and different dicarboxylates: Synthesis, structures and adsorption properties. <i>Polyhedron</i> , 2019, 161, 289-297.	2.2	11
54	Unraveling the Role of Structural Dynamism in Metal Organic Frameworks (MOF) for Excited-State Intramolecular Proton Transfer (ESIPT) Driven Water Sensing. <i>Crystal Growth and Design</i> , 2021, 21, 6110-6118.	3.0	10

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55	Crystalline to Crystalline Phase Transformations in Six Two-Dimensional Dynamic Metal-Organic Frameworks: Syntheses, Characterizations, and Sorption Studies. <i>Crystal Growth and Design</i> , 2018, 18, 5231-5244.	3.0	8
56	Construction of five dicyanamide based coordination polymers with diverse dimensionality: Synthesis, characterization and photoluminescence study. <i>Polyhedron</i> , 2016, 117, 585-591.	2.2	7
57	A Schiff Base Macrocyclic Ligand and Its Mg(II) and Cd(II) Complexes: Spectral Properties with Theoretical Understanding and Biological Activity. <i>ChemistrySelect</i> , 2017, 2, 11832-11839.	1.5	7
58	Syntheses, characterizations and biophysical studies of Cu(II) diphenylphosphate complexes: Effect of co-ligands on their biological properties. <i>Polyhedron</i> , 2012, 48, 157-166.	2.2	6
59	Syntheses and characterization of two supramolecular self-assembled Mn(II) compounds using trans-4,4'-azobispyridine as a bridging ligand: Effect of π - π interactions in the formation of a solid-state structure. <i>Polyhedron</i> , 2012, 34, 24-30.	2.2	6
60	Five Diverse Multidimensional Polycarboxylate-Based Mixed-Ligand Coordination Polymers with Different N-Donor Ligands: Synthesis, Characterization and Their Sorption Study. <i>ChemistrySelect</i> , 2018, 3, 8980-8991.	1.5	6
61	Multifunctional Porous Coordination Polymers Synthesized by the Variation of Chain Length and Flexibility of Dicarboxylates and Size of the Metal Ions. <i>Crystal Growth and Design</i> , 2021, 21, 4892-4903.	3.0	6
62	Fabrication of supramolecular frameworks by tuning the binding site of a tripodal ligand with d 10 metal ions: Interplay of covalent and non-covalent interactions in solid-state structure. <i>Journal of Chemical Sciences</i> , 2010, 122, 801-806.	1.5	5
63	Fabrication and characterization of transparent, self-cleaning glass covers for solar photovoltaic cells. <i>Materials Letters</i> , 2020, 277, 128350.	2.6	5
64	Structural Transformations in Metal-Organic Frameworks for the Exploration of Their CO ₂ Sorption Behavior at Ambient and High Pressure. <i>Crystal Growth and Design</i> , 2021, 21, 2633-2642.	3.0	5
65	Fabrication of two supramolecular self-assemblies of Mn(II)-dicarboxylates with trans-4,4'-azobispyridine: Analysis of H-bonding interactions with Hirshfeld surfaces and DFT calculations. <i>Journal of Molecular Structure</i> , 2014, 1067, 64-73.	3.6	4
66	Syntheses and characterization of three diphenyl phosphate based Cu(II) complexes and the effect of non-covalent interactions on their supramolecular framework. <i>Journal of Chemical Sciences</i> , 2016, 128, 1861-1869.	1.5	4
67	Molecular enneanuclear Cu ^{II} phosphates containing planar hexanuclear and trinuclear sub-units: syntheses, structures, and magnetism. <i>Dalton Transactions</i> , 2020, 49, 2527-2536.	3.3	4
68	Designing of three mixed ligand MOFs in searching of length induced flexibility in ligand for the creation of interpenetration. <i>Polyhedron</i> , 2022, 218, 115763.	2.2	4
69	Structural Diversity in Zn(II) Coordination Polymers Constructed by Linear N-Donor Linker and Different Pseudohalides: Sorption Study and Luminescent Properties. <i>ChemistrySelect</i> , 2017, 2, 5783-5792.	1.5	3
70	Synthesis of two cationic Coordination polymers for the exploration of anion exchange properties. <i>Polyhedron</i> , 2022, 211, 115528.	2.2	3
71	Strategies for the Improvement of Hydrogen Physisorption in Metal-Organic Frameworks and Advantages of Flexibility for the Enhancement. <i>Journal of Molecular and Engineering Materials</i> , 2022, 10, .	1.8	2
72	Two 3D supramolecular frameworks assembled from the dinuclear building block: A crystallographic evidence of carboxylate(O)- π interaction. <i>Journal of Chemical Sciences</i> , 2014, 126, 1153-1161.	1.5	1

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73	Mixed ligand coordination complexes by using multicomponent ligand: Syntheses, characterization and effect of non-covalent interactions on their framework structures. <i>Journal of Molecular Structure</i> , 2020, 1201, 127189.	3.6	1
74	Crystal Structures of Two Macrocyclic Bischalcones Possessing 26-Membered Rings. <i>Journal of Crystallography</i> , 2015, 2015, 1-5.	0.0	0
75	Ionophoric azoaromatics: Synthesis, isolation and complex formation with alkali metal ions. <i>Inorganica Chimica Acta</i> , 2015, 424, 260-266.	2.4	0
76	Crystallography as a Path-Finding Tool to Understand Functionality in Coordination Polymers. <i>Journal of the Indian Institute of Science</i> , 2017, 97, 261-279.	1.9	0