Madhab C Das

List of Publications by Year
in descending order

45 papers	3,811 citations	182225 30 h-index	274796 44 g-index
47 all docs	47 docs citations	47 times ranked	3881 citing authors

#	Article	IF	Citations
1	Emerging microporous HOF materials to address global energy challenges. Joule, 2022, 6, 22-27.	11.7	43
2	Superprotonic Conductivity of MOFs and Other Crystalline Platforms Beyond 10^{âˆ’1} S cm^{âˆ’1}. Advanced Functional Materials, 2021, 31, 2101584.	7.8	93
3	Porous Anionic Co(II) Metalâ€Organic Framework, with a High Density of Amino Groups, as a Superior Luminescent Sensor for Turnâ€on Al(III) Detection. Chemistry - A European Journal, 2021, 27, 11804-11810.	1.7	41
4	C2s/C1 hydrocarbon separation: The major step towards natural gas purification by metal-organic frameworks (MOFs). Coordination Chemistry Reviews, 2021, 442, 213998.	9.5	64
5	Covalentâ€Organic Frameworks (COFs) as Proton Conductors. Advanced Energy Materials, 2021, 11, 2102300.	10.2	106
6	Proton-Conducting Hydrogen-Bonded Organic Frameworks. ACS Energy Letters, 2021, 6, 4431-4453.	8.8	92
7	A Phosphateâ€Based Silverâ€“Bipyridine 1D Coordination Polymer with Crystallized Phosphoric Acid as Superprotonic Conductor. Chemistry - A European Journal, 2020, 26, 4607-4612.	1.7	24
8	A 2D Mg(II)-MOF with High Density of Coordinated Waters as Sole Intrinsic Proton Sources for Ultrahigh Superprotonic Conduction. , 2020, 2, 1343-1350.		37
9	Immobilization of a Polar Sulfone Moiety onto the Pore Surface of a Humid-Stable MOF for Highly Efficient CO₂ Separation under Dry and Wet Environments through Direct CO₂â€“Sulfone Interactions. ACS Applied Materials & Interfaces, 2020, 12, 41177-41184.	4.0	30
10	A â€œThermodynamically Stableâ€• 2D Nickel Metalâ€“Organic Framework over a Wide pH Range with Scalable Preparation for Efficient C₂s over C₁ Hydrocarbon Separations. Chemistry - A European Journal, 2020, 26, 12624-12631.	1.7	28
11	A Co(<scp>ii</scp>)-coordination polymer for ultrahigh superprotonic conduction: an atomistic insight through molecular simulations and QENS experiments. Journal of Materials Chemistry A, 2020, 8, 7847-7853.	5.2	29
12	Two Closely Related Zn(II)-MOFs for Their Large Difference in CO₂ Uptake Capacities and Selective CO₂ Sorption. Inorganic Chemistry, 2020, 59, 7056-7066.	1.9	35
13	A Microporous Co-MOF for Highly Selective CO₂ Sorption in High Loadings Involving Aryl Câ€“HÂ·Â·Â·Oâ•Câ•O Interactions: Combined Simulation and Breakthrough Studies. Inorganic Chemistry, 2019, 58, 11553-11560.	1.9	23
14	Three-Dimensional Co(II)-Metalâ€“Organic Frameworks with Varying Porosities and Open Metal Sites toward Multipurpose Heterogeneous Catalysis under Mild Conditions. Crystal Growth and Design, 2019, 19, 5343-5353.	1.4	41
15	Two 2D microporous MOFs based on bent carboxylates and a linear spacer for selective CO₂adsorption. CrystEngComm, 2019, 21, 535-543.	1.3	13
16	Metalâ€“Organic Frameworks and Other Crystalline Materials for Ultrahigh Superprotonic Conductivities of 10^{âˆ’2}â€…Sâ€‰cm^{âˆ’1} or Higher. Chemistry - A European Journal, 2019, 25, 6259-6269.	1.7	117
17	Frontispiece: Metalâ€“Organic Frameworks and Other Crystalline Materials for Ultrahigh Superprotonic Conductivities of 10^{âˆ’2}â€…Sâ€‰cm^{âˆ’1} or Higher. Chemistry - A European Journal, 2019, 25, .	1.7	0
18	Three Co(II) Metalâ€“Organic Frameworks with Diverse Architectures for Selective Gas Sorption and Magnetic Studies. Inorganic Chemistry, 2019, 58, 6246-6256.	1.9	34

#	Article	IF	Citations
19	Metalo Hydrogenâ€Bonded Organic Frameworks (MHOFs) as New Class of Crystalline Materials for Protonic Conduction. Chemistry - A European Journal, 2019, 25, 1691-1695.	1.7	92
20	Polycarboxylateâ€Templated Coordination Polymers: Role of Templates for Superprotonic Conductivities of up to 10^{âˆ’1}â€…Sâ€‰cm^{âˆ’1}. Angewandte Chemie - International Edition, 2018, 57, 6662-6666.	7.2	153
21	Polycarboxylateâ€Templated Coordination Polymers: Role of Templates for Superprotonic Conductivities of up to 10^{âˆ’1}â€…Sâ€‰cm^{âˆ’1}. Angewandte Chemie, 2018, 130, 6772-6776.	1.6	88
22	A 3D Microporous MOF with <i>mab</i> Topology for Selective CO₂ Adsorption and Separation. ChemistrySelect, 2018, 3, 917-921.	0.7	15
23	A Moistureâ€Stable 3D Microporous Co^{II}â€Metalâ€“Organic Framework with Potential for Highly Selective CO₂ Separation under Ambient Conditions. Chemistry - A European Journal, 2018, 24, 5982-5986.	1.7	37
24	Three isostructural azo-functionalized 3D Cd(II)-coordination polymers for solvent dependent photoluminescence study. Polyhedron, 2018, 153, 115-121.	1.0	5
25	A Trifunctional Luminescent 3D Microporous MOF with Potential for CO₂ Separation, Selective Sensing of a Metal Ion, and Recognition of a Small Organic Molecule. European Journal of Inorganic Chemistry, 2018, 2018, 2785-2792.	1.0	28
26	Two azo-functionalized luminescent 3D Cd(<scp>ii</scp>) MOFs for highly selective detection of Fe³⁺ and Al³⁺. New Journal of Chemistry, 2018, 42, 12865-12871.	1.4	69
27	A Water-Stable Twofold Interpenetrating Microporous MOF for Selective CO₂ Adsorption and Separation. Inorganic Chemistry, 2017, 56, 13991-13997.	1.9	88
28	A microporous MOF with a polar pore surface exhibiting excellent selective adsorption of CO₂from CO₂â€“N₂and CO₂â€“CH₄gas mixtures with high CO₂loading. Dalton Transactions, 2017, 46, 15280-15286.	1.6	46
29	A new set of Cd(<scp>ii</scp>)-coordination polymers with mixed ligands of dicarboxylate and pyridyl substituted diaminotriazine: selective sorption towards CO₂and cationic dyes. Dalton Transactions, 2017, 46, 9901-9911.	1.6	55
30	Structural variation of transition metal coordination polymers based on bent carboxylate and flexible spacer ligand: polymorphism, gas adsorption and SC-SC transmetallation. CrystEngComm, 2016, 18, 4323-4335.	1.3	30
31	Triple Framework Interpenetration and Immobilization of Open Metal Sites within a Microporous Mixed Metalâ€“Organic Framework for Highly Selective Gas Adsorption. Inorganic Chemistry, 2012, 51, 4947-4953.	1.9	83
32	Interplay of Metalloligand and Organic Ligand to Tune Micropores within Isostructural Mixed-Metal Organic Frameworks (Mâ€²MOFs) for Their Highly Selective Separation of Chiral and Achiral Small Molecules. Journal of the American Chemical Society, 2012, 134, 8703-8710.	6.6	326
33	A Zn4O-containing doubly interpenetrated porous metalâ€“organic framework for photocatalytic decomposition of methyl orange. Chemical Communications, 2011, 47, 11715.	2.2	319
34	Rationally tuned micropores within enantiopure metal-organic frameworks for highly selective separation of acetylene and ethylene. Nature Communications, 2011, 2, 204.	5.8	504
35	A New Approach to Construct a Doubly Interpenetrated Microporous Metalâ€“Organic Framework of Primitive Cubic Net for Highly Selective Sorption of Small Hydrocarbon Molecules. Chemistry - A European Journal, 2011, 17, 7817-7822.	1.7	137
36	Functional Mixed Metalâ€“Organic Frameworks with Metalloligands. Angewandte Chemie - International Edition, 2011, 50, 10510-10520.	7.2	384

#	Article	IF	Citations
37	Effect of Bulkiness on Reversible Substitution Reaction at Mn^{II} Center with Concomitant Movement of the Lattice DMF: Observation through Singleâ€Crystal to Singleâ€Crystal Fashion. Chemistry - A European Journal, 2010, 16, 5070-5077.	1.7	31
38	Diversity of binding of sulfate and nitrate anions with laterally asymmetric aza cryptands. CrystEngComm, 2010, 12, 413-419.	1.3	13
39	Binding of various anions in laterally non-symmetric aza-oxa cryptands through H-bonds: characterization of water clusters of different nuclearity. CrystEngComm, 2010, 12, 2967.	1.3	17
40	Helicity-induced two-layered Cd(II) coordination polymers built with different kinked dicarboxylates and an organodiimidazole. Polyhedron, 2009, 28, 3923-3928.	1.0	14
41	Supramolecular association of water molecules forming discrete clusters in the voids of coordination polymers. Current Opinion in Solid State and Materials Science, 2009, 13, 76-90.	5.6	40
42	A Porous Coordination Polymer Exhibiting Reversible Single-Crystal to Single-Crystal Substitution Reactions at Mn(II) Centers by Nitrile Guest Molecules. Journal of the American Chemical Society, 2009, 131, 10942-10949.	6.6	180
43	Coordination polymers with pyridine-2,4,6-tricarboxylic acid and alkaline-earth/lanthanide/transition metals: synthesis and X-ray structures. Dalton Transactions, 2009, , 1644.	1.6	85
44	Halide binding in laterally non-symmetric aza-oxa cryptands through N/O/Câ€“Hâ‹¯halide interactions with characterization of small water clusters. Dalton Transactions, 2009, , 6496.	1.6	16
45	Molecular Ice with Hybrid Waterâ€“Bromide Network around a Cryptand with a Bromide Ion Included in the Cavity to Form a Host-within-a-Host-Like Structure. European Journal of Inorganic Chemistry, 2007, 2007, 1229-1232.	1.0	30