

Madhab C Das

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5540630/madhab-c-das-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

2,828
citations

24
h-index

47
g-index

47
ext. papers

3,269
ext. citations

7.8
avg, IF

5.36
L-index

#	Paper	IF	Citations
45	Emerging microporous HOF materials to address global energy challenges. <i>Joule</i> , 2022 , 6, 22-27	27.8	7
44	Superprotonic Conductivity of MOFs and Other Crystalline Platforms Beyond 10^4 S cm ⁻¹ . <i>Advanced Functional Materials</i> , 2021 , 31, 2101584	15.6	21
43	Porous Anionic Co(II) Metal-Organic Framework, with a High Density of Amino Groups, as a Superior Luminescent Sensor for Turn-on Al(III) Detection. <i>Chemistry - A European Journal</i> , 2021 , 27, 11804-11810	4.8	13
42	C2s/C1 hydrocarbon separation: The major step towards natural gas purification by metal-organic frameworks (MOFs). <i>Coordination Chemistry Reviews</i> , 2021 , 442, 213998	23.2	14
41	A "Thermodynamically Stable" 2D Nickel Metal-Organic Framework over a Wide pH Range with Scalable Preparation for Efficient C _s over C Hydrocarbon Separations. <i>Chemistry - A European Journal</i> , 2020 , 26, 12624-12631	4.8	7
40	A Co(II)-coordination polymer for ultrahigh superprotonic conduction: an atomistic insight through molecular simulations and QENS experiments. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7847-7853	13	15
39	Two Closely Related Zn(II)-MOFs for Their Large Difference in CO Uptake Capacities and Selective CO Sorption. <i>Inorganic Chemistry</i> , 2020 , 59, 7056-7066	5.1	19
38	A Phosphate-Based Silver-Bipyridine 1D Coordination Polymer with Crystallized Phosphoric Acid as Superprotonic Conductor. <i>Chemistry - A European Journal</i> , 2020 , 26, 4607-4612	4.8	16
37	A 2D Mg(II)-MOF with High Density of Coordinated Waters as Sole Intrinsic Proton Sources for Ultrahigh Superprotonic Conduction 2020 , 2, 1343-1350		11
36	Immobilization of a Polar Sulfone Moiety onto the Pore Surface of a Humid-Stable MOF for Highly Efficient CO Separation under Dry and Wet Environments through Direct CO-Sulfone Interactions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41177-41184	9.5	7
35	Two 2D microporous MOFs based on bent carboxylates and a linear spacer for selective CO ₂ adsorption. <i>CrystEngComm</i> , 2019 , 21, 535-543	3.3	9
34	Metal-Organic Frameworks and Other Crystalline Materials for Ultrahigh Superprotonic Conductivities of 10^4 S cm or Higher. <i>Chemistry - A European Journal</i> , 2019 , 25, 6259-6269	4.8	76
33	Three Co(II) Metal-Organic Frameworks with Diverse Architectures for Selective Gas Sorption and Magnetic Studies. <i>Inorganic Chemistry</i> , 2019 , 58, 6246-6256	5.1	24
32	A Microporous Co-MOF for Highly Selective CO Sorption in High Loadings Involving Aryl C-H...O=C?O Interactions: Combined Simulation and Breakthrough Studies. <i>Inorganic Chemistry</i> , 2019 , 58, 11553-11560	5.1	13
31	Three-Dimensional Co(II)-Metal-Organic Frameworks with Varying Porosities and Open Metal Sites toward Multipurpose Heterogeneous Catalysis under Mild Conditions. <i>Crystal Growth and Design</i> , 2019 , 19, 5343-5353	3.5	26
30	Metal-Organic Hydrogen-Bonded Organic Frameworks (MHOFs) as New Class of Crystalline Materials for Protonic Conduction. <i>Chemistry - A European Journal</i> , 2019 , 25, 1691-1695	4.8	47
29	Polycarboxylate-Templated Coordination Polymers: Role of Templates for Superprotonic Conductivities of up to 10^4 S cm. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6662-6666	16.4	104

28	Polycarboxylate-Templated Coordination Polymers: Role of Templates for Superprotonic Conductivities of up to 10^4 S cm ⁻¹ . <i>Angewandte Chemie</i> , 2018 , 130, 6772-6776	3.6	17
27	A 3D Microporous MOF with mab Topology for Selective CO ₂ Adsorption and Separation. <i>ChemistrySelect</i> , 2018 , 3, 917-921	1.8	13
26	A Moisture-Stable 3D Microporous Co-Metal-Organic Framework with Potential for Highly Selective CO Separation under Ambient Conditions. <i>Chemistry - A European Journal</i> , 2018 , 24, 5982-5986 ^{4.8}	4.8	29
25	Three isostructural azo-functionalized 3D Cd(II)-coordination polymers for solvent dependent photoluminescence study. <i>Polyhedron</i> , 2018 , 153, 115-121	2.7	3
24	A Trifunctional Luminescent 3D Microporous MOF with Potential for CO ₂ Separation, Selective Sensing of a Metal Ion, and Recognition of a Small Organic Molecule. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 2785-2792	2.3	23
23	Two azo-functionalized luminescent 3D Cd(II) MOFs for highly selective detection of Fe ³⁺ and Al ³⁺ . <i>New Journal of Chemistry</i> , 2018 , 42, 12865-12871	3.6	46
22	A Water-Stable Twofold Interpenetrating Microporous MOF for Selective CO Adsorption and Separation. <i>Inorganic Chemistry</i> , 2017 , 56, 13991-13997	5.1	65
21	A microporous MOF with a polar pore surface exhibiting excellent selective adsorption of CO from CO-N and CO-CH gas mixtures with high CO loading. <i>Dalton Transactions</i> , 2017 , 46, 15280-15286	4.3	32
20	A new set of Cd(ii)-coordination polymers with mixed ligands of dicarboxylate and pyridyl substituted diaminotriazine: selective sorption towards CO and cationic dyes. <i>Dalton Transactions</i> , 2017 , 46, 9901-9911	4.3	48
19	Structural variation of transition metal coordination polymers based on bent carboxylate and flexible spacer ligand: polymorphism, gas adsorption and SC-SC transmetallation. <i>CrystEngComm</i> , 2016 , 18, 4323-4335	3.3	26
18	Triple framework interpenetration and immobilization of open metal sites within a microporous mixed metal-organic framework for highly selective gas adsorption. <i>Inorganic Chemistry</i> , 2012 , 51, 4947-53 ⁵¹	5.1	74
17	Interplay of metalloligand and organic ligand to tune micropores within isostructural mixed-metal organic frameworks (MSMOFs) for their highly selective separation of chiral and achiral small molecules. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8703-10	16.4	296
16	A Zn ₄ O-containing doubly interpenetrated porous metal-organic framework for photocatalytic decomposition of methyl orange. <i>Chemical Communications</i> , 2011 , 47, 11715-7	5.8	289
15	Rationally tuned micropores within enantiopure metal-organic frameworks for highly selective separation of acetylene and ethylene. <i>Nature Communications</i> , 2011 , 2, 204	17.4	438
14	A new approach to construct a doubly interpenetrated microporous metal-organic framework of primitive cubic net for highly selective sorption of small hydrocarbon molecules. <i>Chemistry - A European Journal</i> , 2011 , 17, 7817-22	4.8	127
13	Funktionelle Gemischtmetall-organische Gerüste mit Metalloliganden. <i>Angewandte Chemie</i> , 2011 , 123, 10696-10707	3.6	71
12	Functional mixed metal-organic frameworks with metalloligands. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10510-20	16.4	351
11	Diversity of binding of sulfate and nitrate anions with laterally asymmetric aza cryptands. <i>CrystEngComm</i> , 2010 , 12, 413-419	3.3	13

10	Binding of various anions in laterally non-symmetric aza-oxa cryptands through H-bonds: characterization of water clusters of different nuclearity. <i>CrystEngComm</i> , 2010 , 12, 2967	3.3	16
9	Effect of bulkiness on reversible substitution reaction at Mn(II) center with concomitant movement of the lattice DMF: observation through single-crystal to single-crystal fashion. <i>Chemistry - A European Journal</i> , 2010 , 16, 5070-7	4.8	30
8	Helicity-induced two-layered Cd(II) coordination polymers built with different kinked dicarboxylates and an organodiimidazole. <i>Polyhedron</i> , 2009 , 28, 3923-3928	2.7	14
7	Supramolecular association of water molecules forming discrete clusters in the voids of coordination polymers. <i>Current Opinion in Solid State and Materials Science</i> , 2009 , 13, 76-90	12	39
6	A porous coordination polymer exhibiting reversible single-crystal to single-crystal substitution reactions at Mn(II) centers by nitrile guest molecules. <i>Journal of the American Chemical Society</i> , 2009 , 131, 10942-9	16.4	173
5	Coordination polymers with pyridine-2,4,6-tricarboxylic acid and alkaline-earth/lanthanide/transition metals: synthesis and X-ray structures. <i>Dalton Transactions</i> , 2009 , 1644-58	4.3	80
4	Halide binding in laterally non-symmetric aza-oxa cryptands through N/O/C-H...halide interactions with characterization of small water clusters. <i>Dalton Transactions</i> , 2009 , 6496-506	4.3	16
3	Molecular Ice with Hybrid WaterBromide Network around a Cryptand with a Bromide Ion Included in the Cavity to Form a Host-within-a-Host-Like Structure. <i>European Journal of Inorganic Chemistry</i> , 2007 , 2007, 1229-1232	2.3	30
2	Proton-Conducting Hydrogen-Bonded Organic Frameworks. <i>ACS Energy Letters</i> , 4431-4453	20.1	16
1	Covalent-Organic Frameworks (COFs) as Proton Conductors. <i>Advanced Energy Materials</i> , 2102300	21.8	24