

Debasis Banerjee

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

3,412
citations

172457

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289244

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docs citations

44
times ranked

3879
citing authors

#	ARTICLE	IF	CITATIONS
1	Strongly luminescent inorganic-organic hybrid semiconductors with tunable white light emissions by doping. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1484-1490.	5.5	30
2	XRD-DSC: a screening tool for identifying effective MOFs for selective gas sorption from humid gas streams. <i>Powder Diffraction</i> , 2019, 34, 3-12.	0.2	2
3	Xenon Gas Separation and Storage Using Metal-Organic Frameworks. <i>CheM</i> , 2018, 4, 466-494.	11.7	182
4	Flexibility in Metal-Organic Frameworks: A fundamental understanding. <i>Coordination Chemistry Reviews</i> , 2018, 358, 125-152.	18.8	175
5	Iodine Adsorption in Metal Organic Frameworks in the Presence of Humidity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10622-10626.	8.0	144
6	Effect of ring rotation upon gas adsorption in SIFSIX-3-M (M = Fe, Ni) pillared square grid networks. <i>Chemical Science</i> , 2017, 8, 2373-2380.	7.4	121
7	Xe adsorption and separation properties of a series of microporous metal-organic frameworks (MOFs) with V-shaped linkers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16611-16615.	10.3	42
8	Direct Structural Identification of Gas Induced Gate-Opening Coupled with Commensurate Adsorption in a Microporous Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2016, 22, 11816-11825.	3.3	27
9	Noria: A Highly Xe-Selective Nanoporous Organic Solid. <i>Chemistry - A European Journal</i> , 2016, 22, 12618-12623.	3.3	48
10	Redox-Active Metal-Organic Composites for Highly Selective Oxygen Separation Applications. <i>Advanced Materials</i> , 2016, 28, 3572-3577.	21.0	55
11	Light Hydrocarbon Adsorption Mechanisms in Two Calcium-Based Microporous Metal Organic Frameworks. <i>Chemistry of Materials</i> , 2016, 28, 1636-1646.	6.7	87
12	Simultaneous <i>in Situ</i> X-ray Diffraction and Calorimetric Studies as a Tool To Evaluate Gas Adsorption in Microporous Materials. <i>Journal of Physical Chemistry C</i> , 2016, 120, 360-369.	3.1	18
13	Direct structural evidence of commensurate-to-incommensurate transition of hydrocarbon adsorption in a microporous metal organic framework. <i>Chemical Science</i> , 2016, 7, 759-765.	7.4	24
14	Metal-organic framework with optimally selective xenon adsorption and separation. <i>Nature Communications</i> , 2016, 7, ncomms11831.	12.8	325
15	Surface and Structural Investigation of a MnO _x Birnessite-Type Water Oxidation Catalyst Formed under Photocatalytic Conditions. <i>Chemistry - A European Journal</i> , 2015, 21, 14218-14228.	3.3	29
16	Direct Observation of Xe and Kr Adsorption in a Xe-Selective Microporous Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2015, 137, 7007-7010.	13.7	179
17	Separation of C ₂ Hydrocarbons by Porous Materials: Metal Organic Frameworks as Platform. <i>Comments on Inorganic Chemistry</i> , 2015, 35, 18-38.	5.2	29
18	Potential of Metal-Organic Frameworks for Separation of Xenon and Krypton. <i>Accounts of Chemical Research</i> , 2015, 48, 211-219.	15.6	330

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19	Luminescent metal-organic frameworks as explosive sensors. Dalton Transactions, 2014, 43, 10668-10685.	3.3	344
20	Effective sensing of RDX via instant and selective detection of ketone vapors. Chemical Science, 2014, 5, 4873-4877.	7.4	112
21	Vapor phase detection of nitroaromatic and nitroaliphatic explosives by fluorescence active metal-organic frameworks. CrystEngComm, 2013, 15, 9745.	2.6	95
22	Effect of ligand geometry on selective gas-adsorption: the case of a microporous cadmium metal organic framework with a V-shaped linker. Chemical Communications, 2013, 49, 7055.	4.1	31
23	Mechanism of Carbon Dioxide Adsorption in a Highly Selective Coordination Network Supported by Direct Structural Evidence. Angewandte Chemie - International Edition, 2013, 52, 1692-1695.	13.8	97
24	Synthesis, Structures and Photoluminescence Properties of a Series of Alkaline Earth Metal-Based Coordination Networks Synthesized Using Thiophene-Based Linkers. Crystal Growth and Design, 2013, 13, 326-332.	3.0	44
25	Temperature dependent structure formation and photoluminescence studies of a series of magnesium-based coordination networks. Inorganica Chimica Acta, 2013, 394, 452-458.	2.4	20
26	Lanthanide metal-organic frameworks based on a thiophenedicarboxylate linker: Characterization and luminescence. Solid State Sciences, 2013, 15, 36-41.	3.2	16
27	Innentitelbild: Mechanism of Carbon Dioxide Adsorption in a Highly Selective Coordination Network Supported by Direct Structural Evidence (Angew. Chem. 6/2013). Angewandte Chemie, 2013, 125, 1640-1640.	2.0	0
28	A Calcium Coordination Framework Having Permanent Porosity and High CO ₂ /N ₂ Selectivity. Crystal Growth and Design, 2012, 12, 2162-2165.	3.0	127
29	Effect of Ligand Structural Isomerism in Formation of Calcium Coordination Networks. Crystal Growth and Design, 2012, 12, 2460-2467.	3.0	60
30	Synthesis, characterization, and luminescence properties of magnesium coordination networks synthesized using an isophthalate linker. Polyhedron, 2012, 37, 42-47.	2.2	6
31	Anionic Gallium-Based Metal-Organic Framework and Its Sorption and Ion-Exchange Properties. Inorganic Chemistry, 2011, 50, 208-212.	4.0	53
32	Synthesis and Structural Characterization of Magnesium Based Coordination Networks in Different Solvents. Crystal Growth and Design, 2011, 11, 2572-2579.	3.0	90
33	Recent Advances in s-Block Metal Carboxylate Networks. Crystal Growth and Design, 2011, 11, 4704-4720.	3.0	192
34	Poly[(1/4-adamantane-1,3-dicarboxylato-1/5O1:O1)2:O3,O3]2:O3]2 (1/4-adamantane-1,3-dicarboxylato-1/5O1,O1)2:O3,O3]2:O3 a layered coordination polymer. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, m335-m337.	0.4	4
35	A magnesium-lithium heterometallic coordination network. Inorganic Chemistry Communication, 2011, 14, 741-744.	3.9	9
36	Synthesis and Structural Characterization of a 3-D Lithium Based Metal-Organic Framework Showing Dynamic Structural Behavior. Crystal Growth and Design, 2010, 10, 2801-2805.	3.0	55

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37	Solvothermal Synthesis and Structural Characterization of Ultralight Metal Coordination Networks. <i>Crystal Growth and Design</i> , 2010, 10, 709-715.	3.0	32
38	Lithium Based Metal-Organic Framework with Exceptional Stability. <i>Crystal Growth and Design</i> , 2009, 9, 2500-2503.	3.0	85
39	Synthesis and Structural Characterization of Lithium-Based Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2009, 9, 4922-4926.	3.0	68
40	Alkaline Earth Metal-Based Metal-Organic Frameworks: Synthesis, Properties, and Applications. , 0, , 73-103.		6