Debasis Banerjee

List of Publications by Year in descending order

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40 papers	3,412 citations	172457 29 h-index	289244 40 g-index
44 all docs	44 docs citations	44 times ranked	3879 citing authors

#	Article	IF	Citations
1	Luminescent metalâ€“organic frameworks as explosive sensors. Dalton Transactions, 2014, 43, 10668-10685.	3.3	344
2	Potential of Metalâ€“Organic Frameworks for Separation of Xenon and Krypton. Accounts of Chemical Research, 2015, 48, 211-219.	15.6	330
3	Metalâ€“organic framework with optimally selective xenon adsorption and separation. Nature Communications, 2016, 7, ncomms11831.	12.8	325
4	Recent Advances in s-Block Metal Carboxylate Networks. Crystal Growth and Design, 2011, 11, 4704-4720.	3.0	192
5	Xenon Gas Separation and Storage Using Metal-Organic Frameworks. CheM, 2018, 4, 466-494.	11.7	182
6	Direct Observation of Xe and Kr Adsorption in a Xe-Selective Microporous Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 7007-7010.	13.7	179
7	Flexibility in Metalâ€“Organic Frameworks: A fundamental understanding. Coordination Chemistry Reviews, 2018, 358, 125-152.	18.8	175
8	Iodine Adsorption in Metal Organic Frameworks in the Presence of Humidity. ACS Applied Materials & Interfaces, 2018, 10, 10622-10626.	8.0	144
9	A Calcium Coordination Framework Having Permanent Porosity and High CO₂/N₂ Selectivity. Crystal Growth and Design, 2012, 12, 2162-2165.	3.0	127
10	Effect of ring rotation upon gas adsorption in SIFSIX-3-M (M = Fe, Ni) pillared square grid networks. Chemical Science, 2017, 8, 2373-2380.	7.4	121
11	Effective sensing of RDX via instant and selective detection of ketone vapors. Chemical Science, 2014, 5, 4873-4877.	7.4	112
12	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
13	Vapor phase detection of nitroaromatic and nitroaliphatic explosives by fluorescence active metalâ€“organic frameworks. CrystEngComm, 2013, 15, 9745.	2.6	95
14	Synthesis and Structural Characterization of Magnesium Based Coordination Networks in Different Solvents. Crystal Growth and Design, 2011, 11, 2572-2579.	3.0	90
15	Light Hydrocarbon Adsorption Mechanisms in Two Calcium-Based Microporous Metal Organic Frameworks. Chemistry of Materials, 2016, 28, 1636-1646.	6.7	87
16	Lithium Based Metalâ^'Organic Framework with Exceptional Stability. Crystal Growth and Design, 2009, 9, 2500-2503.	3.0	85
17	Synthesis and Structural Characterization of Lithium-Based Metalâ^'Organic Frameworks. Crystal Growth and Design, 2009, 9, 4922-4926.	3.0	68
18	Effect of Ligand Structural Isomerism in Formation of Calcium Coordination Networks. Crystal Growth and Design, 2012, 12, 2460-2467.	3.0	60

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19	Synthesis and Structural Characterization of a 3-D Lithium Based Metalâ"Organic Framework Showing Dynamic Structural Behavior. Crystal Growth and Design, 2010, 10, 2801-2805.	3.0	55
20	Redoxâ€Active Metalâ€"Organic Composites for Highly Selective Oxygen Separation Applications. Advanced Materials, 2016, 28, 3572-3577.	21.0	55
21	Anionic Gallium-Based Metalâ"Organic Framework and Its Sorption and Ion-Exchange Properties. Inorganic Chemistry, 2011, 50, 208-212.	4.0	53
22	Noria: A Highly Xeâ€Selective Nanoporous Organic Solid. Chemistry - A European Journal, 2016, 22, 12618-12623.	3.3	48
23	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
24	Xe adsorption and separation properties of a series of microporous metalâ€"organic frameworks (MOFs) with V-shaped linkers. Journal of Materials Chemistry A, 2017, 5, 16611-16615.	10.3	42
25	Solvothermal Synthesis and Structural Characterization of Ultralight Metal Coordination Networks. Crystal Growth and Design, 2010, 10, 709-715.	3.0	32
26	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
27	Strongly luminescent inorganicâ€"organic hybrid semiconductors with tunable white light emissions by doping. Journal of Materials Chemistry C, 2019, 7, 1484-1490.	5.5	30
28	Surface and Structural Investigation of a MnO_x Birnessiteâ€Type Water Oxidation Catalyst Formed under Photocatalytic Conditions. Chemistry - A European Journal, 2015, 21, 14218-14228.	3.3	29
29	Separation of C₂Hydrocarbons by Porous Materials: Metal Organic Frameworks as Platform. Comments on Inorganic Chemistry, 2015, 35, 18-38.	5.2	29
30	Direct Structural Identification of Gas Induced Gateâ€Opening Coupled with Commensurate Adsorption in a Microporous Metalâ€"Organic Framework. Chemistry - A European Journal, 2016, 22, 11816-11825.	3.3	27
31	Direct structural evidence of commensurate-to-incommensurate transition of hydrocarbon adsorption in a microporous metal organic framework. Chemical Science, 2016, 7, 759-765.	7.4	24
32	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
33	Simultaneous in Situ X-ray Diffraction and Calorimetric Studies as a Tool To Evaluate Gas Adsorption in Microporous Materials. Journal of Physical Chemistry C, 2016, 120, 360-369.	3.1	18
34	Lanthanide metal-organic frameworks based on a thiophenedicarboxylate linker: Characterization and luminescence. Solid State Sciences, 2013, 15, 36-41.	3.2	16
35	A magnesiumâ€"lithium heterometallic coordination network. Inorganic Chemistry Communication, 2011, 14, 741-744.	3.9	9
36	Synthesis, characterization, and luminescence properties of magnesium coordination networks synthesized using an isophthalate linker. Polyhedron, 2012, 37, 42-47.	2.2	6

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37	Alkaline Earth Metal-Based Metal-Organic Frameworks: Synthesis, Properties, and Applications. , 0, , 73-103.		6
38	Poly[(Î¼4-adamantane-1,3-dicarboxylato-Îº5O1:O1â€²:O3,O3â€²:O3â€²)(Î¼3-adamantane-1,3-dicarboxylato-Îº5O1,O1â€²:O3,O3â€²:O a layered coordination polymer. Acta Crystallographica Section C: Crystal Structure Communications, 2011, 67, m335-m337.	0.4	4
39	XRD-DSC: a screening tool for identifying effective MOFs for selective gas sorption from humid gas streams. Powder Diffraction, 2019, 34, 3-12.	0.2	2
40	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