Naseem Ahmed Ramsahye

List of Publications by Year
in descending order

43 papers	4,235 citations	201575 27 h-index	254106 43 g-index
45 all docs	45 docs citations	45 times ranked	5719 citing authors

#	Article	IF	Citations
1	Flexible Porous Metal-Organic Frameworks for a Controlled Drug Delivery. Journal of the American Chemical Society, 2008, 130, 6774-6780.	6.6	1,564
2	An Explanation for the Very Large Breathing Effect of a Metalâ€“Organic Framework during CO₂ Adsorption. Advanced Materials, 2007, 19, 2246-2251.	11.1	501
3	The Structure of the Aluminum Fumarate Metalâ€“Organic Framework A520. Angewandte Chemie - International Edition, 2015, 54, 3664-3668.	7.2	206
4	Understanding the origins of metalâ€“organic framework/polymer compatibility. Chemical Science, 2018, 9, 315-324.	3.7	153
5	On the breathing effect of a metalâ€“organic framework upon CO2 adsorption: Monte Carlo compared to microcalorimetry experiments. Chemical Communications, 2007, , 3261.	2.2	137
6	Probing the Adsorption Sites for CO₂ in Metal Organic Frameworks Materials MIL-53 (Al,) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.5	137
7	Microscopic Model of the Metalâ€“Organic Framework/Polymer Interface: A First Step toward Understanding the Compatibility in Mixed Matrix Membranes. ACS Applied Materials & Interfaces, 2016, 8, 809-819.	4.0	129
8	A phase transformable ultrastable titanium-carboxylate framework for photoconduction. Nature Communications, 2018, 9, 1660.	5.8	128
9	Adsorption of CO2 in metal organic frameworks of different metal centres: Grand Canonical Monte Carlo simulations compared to experiments. Adsorption, 2007, 13, 461-467.	1.4	123
10	Charge distribution in metal organic framework materials: transferability to a preliminary molecular simulation study of the CO2adsorption in the MIL-53 (Al) system. Physical Chemistry Chemical Physics, 2007, 9, 1059-1063.	1.3	112
11	Toward an Understanding of the Microstructure and Interfacial Properties of PIMs/ZIF-8 Mixed Matrix Membranes. ACS Applied Materials & Interfaces, 2016, 8, 27311-27321.	4.0	93
12	Adsorption and Diffusion of Light Hydrocarbons in UiO-66(Zr): A Combination of Experimental and Modeling Tools. Journal of Physical Chemistry C, 2014, 118, 27470-27482.	1.5	84
13	Adsorption of C5â€“C9 hydrocarbons in microporous MOFs MIL-100(Cr) and MIL-101(Cr): A manometric study. Microporous and Mesoporous Materials, 2010, 134, 134-140.	2.2	65
14	Impact of the Flexible Character of MIL-88 Iron(III) Dicarboxylates on the Adsorption of <i>n</i>-Alkanes. Chemistry of Materials, 2013, 25, 479-488.	3.2	65
15	Cation Mobility and the Sorption of Chloroform in Zeolite NaY:Â Molecular Dynamics Study. Journal of Physical Chemistry B, 2005, 109, 4738-4747.	1.2	62
16	The effect of pore shape on hydrocarbon selectivity on UiO-66(Zr), HKUST-1 and MIL-125(Ti) metal organic frameworks: Insights from molecular simulations and chromatography. Microporous and Mesoporous Materials, 2014, 189, 222-231.	2.2	54
17	Spectroscopically Distinct Sites Present in Methyltrioxorhenium Grafted onto Silicaâˆ’Alumina, and Their Abilities to Initiate Olefin Metathesis. Journal of the American Chemical Society, 2007, 129, 8912-8920.	6.6	50
18	Influence of the Organic Ligand Functionalization on the Breathing of the Porous Iron Terephthalate Metal Organic Framework Type Material upon Hydrocarbon Adsorption. Journal of Physical Chemistry C, 2011, 115, 18683-18695.	1.5	50

#	Article	IF	Citations
19	Adsorption and separation of xylene isomers vapors onto the chromium terephthalate-based porous material MIL-101(Cr): An experimental and computational study. Microporous and Mesoporous Materials, 2014, 183, 17-22.	2.2	50
20	Exploration of the Long-Chain <i>N</i>-Alkanes Adsorption and Diffusion in the MOF-Type MIL-47 (V) Material by Combining Experimental and Molecular Simulation Tools. Journal of Physical Chemistry C, 2011, 115, 13868-13876.	1.5	49
21	Diffusion of Molecular Hydrogen through Porous Materials:â€‰ The Importance of Framework Flexibility. Journal of Physical Chemistry B, 2004, 108, 5088-5094.	1.2	44
22	Methyltrioxorhenium Interactions with Lewis Acid Sites of an Amorphous Silicaâˆ'Alumina. Organometallics, 2006, 25, 2157-2165.	1.1	41
23	Adsorption and separation of hydrocarbons by the metal organic framework MIL-101(Cr). Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 520, 46-52.	2.3	38
24	Diffusion of Light Hydrocarbons in the Flexible MIL-53(Cr) Metalâ€"Organic Framework: A Combination of Quasi-Elastic Neutron Scattering Experiments and Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2014, 118, 14471-14477.	1.5	37
25	Hydrocarbon adsorption in the isostructural metal organic frameworks MIL-53(Cr) and MIL-47(V). Microporous and Mesoporous Materials, 2011, 140, 114-119.	2.2	34
26	Role of MOF surface defects on the microscopic structure of MOF/polymer interfaces: A computational study of the ZIF-8/PIMs systems. Microporous and Mesoporous Materials, 2017, 254, 184-191.	2.2	30
27	Formation of a Singleâ€Crystal Aluminumâ€Based MOF Nanowire with Graphene Oxide Nanoscrolls as Structureâ€Directing Agents. Angewandte Chemie - International Edition, 2020, 59, 10353-10358.	7.2	30
28	Diffusion of H₂, CO₂, and Their Mixtures in the Porous Zirconium Based Metalâ€"Organic Framework MIL-140A(Zr): Combination of Quasi-Elastic Neutron Scattering Measurements and Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2015, 119, 23978-23989.	1.5	29
29	Large Polyhedral Oligomeric Silsesquioxane Cages: The Isolation of Functionalized POSS with an Unprecedented Si₁₈O₂₇ Core. Angewandte Chemie - International Edition, 2021, 60, 3022-3027.	7.2	27
30	Coadsorption of <i>n</i>-Hexane and Benzene Vapors onto the Chromium Terephthalate-Based Porous Material MIL-101(Cr) An Experimental and Computational Study. Journal of Physical Chemistry C, 2012, 116, 25824-25831.	1.5	20
31	Incidence and properties of nanoscale defects in silicalite. Chemical Communications, 2006, , 442-444.	2.2	14
32	Computational exploration of the gas adsorption on the iron tetracarboxylate metal-organic framework MIL-102. Molecular Simulation, 2015, 41, 1357-1370.	0.9	14
33	Adsorption of Small Molecules in the Porous Zirconium-Based Metal Organic Framework MIL-140A (Zr): A Joint Computational-Experimental Approach. Journal of Physical Chemistry C, 2016, 120, 7192-7200.	1.5	12
34	Diffusion of Carbon Dioxide and Nitrogen in the Smallâ€Pore Titanium Bis(phosphonate) Metalâ€"Organic Framework MILâ€91 (Ti): A Combination of Quasielastic Neutron Scattering Measurements and Molecular Dynamics Simulations. ChemPhysChem, 2017, 18, 2739-2746.	1.0	11
35	Calculating the energy barriers to sodium cation motion through the six-rings of zeolite Y. Microporous and Mesoporous Materials, 2008, 109, 405-412.	2.2	9
36	Computational exploration of the structure, stability and adsorption properties of the ZIF-9 metal-organic framework. Microporous and Mesoporous Materials, 2017, 254, 170-177.	2.2	8

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37	A multidisciplary approach to understanding sorption induced breathing in the metal organic framework MIL53(Cr). Studies in Surface Science and Catalysis, 2007, , 1008-1014.	1.5	5
38	Computationally Assisted Assessment of the Metalâ€Organic Framework/Polymer Compatibility in Composites Integrating a Rigid Polymer. Advanced Theory and Simulations, 2019, 2, 1900116.	1.3	5
39	Molecular Modelling of Helix Stability in Carrageenans. Journal of Molecular Modeling, 2000, 6, 477-490.	0.8	4
40	Large Polyhedral Oligomeric Silsesquioxane Cages: The Isolation of Functionalized POSS with an Unprecedented Si₁₈O₂₇ Core. Angewandte Chemie, 2021, 133, 3059-3064.	1.6	3
41	Adsorption of Benzene in the Cation-Containing MOFs MIL-141. Journal of Physical Chemistry C, 0, , 130913101409004.	1.5	2
42	Modeling of Diffusion in MOFs. , 2018, , 63-97.		2
43	Formation of a Singleâ€Crystal Aluminumâ€Based MOF Nanowire with Graphene Oxide Nanoscrolls as Structureâ€Directing Agents. Angewandte Chemie, 2020, 132, 10439-10444.	1.6	1