

CITATION REPORT

List of articles citing

Noble Gas Adsorption in Copper Trimesate, HKUST-1: An Experimental and Computational Study

DOI: 10.1021/jp408034u

Journal of Physical Chemistry C, 2013, 117, 20116-20126.

Source: <https://exaly.com/paper-pdf/56051151/citation-report.pdf>

Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. 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.

#	Paper	IF	Citations
85	Nanoporous metal formates for krypton/xenon separation. <i>Chemical Communications</i> , 2013 , 49, 10959-64	3.8	37
84	Noble Gas Adsorption in Metal-Organic Frameworks Containing Open Metal Sites. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 11685-11698	3.8	137
83	Understanding the adsorption mechanism of noble gases Kr and Xe in CPO-27-Ni, CPO-27-Mg, and ZIF-8. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23908-14	3.6	39
82	A Two-Column Method for the Separation of Kr and Xe from Process Off-Gases. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 12893-12899	3.9	53
81	Kinetic Trapping of D ₂ in MIL-53(Al) Observed Using Neutron Scattering. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18197-18206	3.8	15
80	Crystallographic studies of gas sorption in metal-organic frameworks. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014 , 70, 404-22	1.8	76
79	Density functional theory meta-GGA + U study of water incorporation in the metal-organic framework material Cu-BTC. <i>Journal of Chemical Physics</i> , 2015 , 143, 024701	3.9	13
78	Using neutron powder diffraction and first-principles calculations to understand the working mechanisms of porous coordination polymer sorbents. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2015 , 71, 648-60	1.8	7
77	Direct measurement of adsorbed gas redistribution in metal-organic frameworks. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2919-30	16.4	37
76	Real-Time Multiple Beam Interferometry Reveals Complex Deformations of Metal-Organic-Framework Crystals upon Humidity Adsorption/Desorption. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16769-16776	3.8	7
75	Thermodynamics of Methane Adsorption on Copper HKUST-1 at Low Pressure. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2439-43	6.4	17
74	On the importance of a precise crystal structure for simulating gas adsorption in nanoporous materials. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 18904-7	3.6	12
73	Probing the energetics of organic-nanoparticle interactions of ethanol on calcite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5314-8	11.5	19
72	Chemical principles underpinning the performance of the metal-organic framework HKUST-1. <i>Chemical Science</i> , 2015 , 6, 3674-3683	9.4	96
71	DFT-based force field development for noble gas adsorption in metal organic frameworks. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23539-23548	13	24
70	Critical Factors Driving the High Volumetric Uptake of Methane in Cu(btc)-MOF. <i>Journal of the American Chemical Society</i> , 2015 , 137, 10816-25	16.4	61
69	Extreme confinement of xenon by cryptophane-111 in the solid state. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1471-5	16.4	36

68	Extreme Confinement of Xenon by Cryptophane-111 in the Solid State. <i>Angewandte Chemie</i> , 2015 , 127, 1491-1495	3.6	11
67	Potential of metal-organic frameworks for separation of xenon and krypton. <i>Accounts of Chemical Research</i> , 2015 , 48, 211-9	24.3	259
66	The breakthrough curve combination for xenon sampling dynamics in a carbon molecular sieve column. <i>Analyst, The</i> , 2015 , 140, 428-33	5	3
65	Formation of a quasi-solid structure by intercalated noble gas atoms in pores of Cu(I)-MFU-4l metal-organic framework. <i>Chemical Communications</i> , 2015 , 51, 714-7	5.8	14
64	Thermodynamics of metal-organic frameworks. <i>Journal of Solid State Chemistry</i> , 2015 , 223, 53-58	3.3	38
63	Evaluating the Selectivity of Sorbents for Noble Gas Separations across a Range of Temperatures, Loadings, and Gas Compositions. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016 , 642, 1377-1383	1.2	3
62	Dynamic separation of Xe and Kr by metal-organic framework and covalent-organic materials: a comparison with activated charcoal. <i>Science China Chemistry</i> , 2016 , 59, 643-650	7.9	17
61	Zirconium Phosphate Supported MOF Nanoplatelets. <i>Inorganic Chemistry</i> , 2016 , 55, 5634-9	5.1	14
60	Neon-Bearing Ammonium Metal Formates: Formation and Behaviour under Pressure. <i>ChemPhysChem</i> , 2016 , 17, 3369-3372	3.2	12
59	Capture of harmful radioactive contaminants from off-gas stream using porous solid sorbents for clean environment [A review]. <i>Chemical Engineering Journal</i> , 2016 , 306, 369-381	14.7	135
58	Noria: A Highly Xe-Selective Nanoporous Organic Solid. <i>Chemistry - A European Journal</i> , 2016 , 22, 12618-12633	4.3	34
57	ZIF-Derived Nitrogen-Doped Porous Carbons for Xe Adsorption and Separation. <i>Scientific Reports</i> , 2016 , 6, 21295	4.9	25
56	Highly selective adsorption and separation of dichloromethane/trichloromethane on a copper-based metal-organic framework. <i>RSC Advances</i> , 2016 , 6, 31214-31224	3.7	17
55	Zeolitic imidazolate framework-8 as a nanoadsorbent for radon capture. <i>Nuclear Science and Techniques/Hewuli</i> , 2016 , 27, 1	2.1	5
54	Simultaneous in Situ 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	3.8	16
53	Assessing zeolite frameworks for noble gas separations through a joint experimental and computational approach. <i>Microporous and Mesoporous Materials</i> , 2016 , 222, 104-112	5.3	13
52	Synthesis and characterization of ETS-10: supported hollow carbon nano-polyhedrons nanosorbent for adsorption of krypton at near ambient temperatures. <i>Adsorption</i> , 2016 , 22, 129-137	2.6	11
51	Statistical mechanical model of gas adsorption in porous crystals with dynamic moieties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E287-E296	11.5	29

50	Differential Heat of Adsorption and Isosteres. <i>Langmuir</i> , 2017 , 33, 996-1003	4	23
49	Exploring the structure-property relationships of covalent organic frameworks for noble gas separations. <i>Chemical Engineering Science</i> , 2017 , 168, 456-464	4.4	60
48	Xenon Recovery at Room Temperature using Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2017 , 23, 10758-10762	4.8	25
47	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	13	31
46	Reticular Chemistry and the Discovery of a New Family of Rare Earth (4, 8)-Connected Metal-Organic Frameworks with csq Topology Based on RE(EO)(COO) Clusters. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44560-44566	9.5	16
45	Hydrogen Uptake on Coordinatively Unsaturated Metal Sites in VSB-5: Strong Binding Affinity Leading to High-Temperature D/H Selectivity. <i>Langmuir</i> , 2017 , 33, 14586-14591	4	10
44	Porous Organic Cages. 2017 , 139-197		6
43	General strategies for effective capture and separation of noble gases by metal-organic frameworks. <i>Dalton Transactions</i> , 2018 , 47, 4027-4031	4.3	20
42	Employing an Unsaturated Th Site in a Porous Thorium-Organic Framework for Kr/Xe Uptake and Separation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5783-5787	16.4	84
41	Employing an Unsaturated Th ⁴⁺ Site in a Porous Thorium-Organic Framework for Kr/Xe Uptake and Separation. <i>Angewandte Chemie</i> , 2018 , 130, 5885-5889	3.6	23
40	Xenon Gas Separation and Storage Using Metal-Organic Frameworks. <i>Chem</i> , 2018 , 4, 466-494	16.2	103
39	Towards high-efficiency sorptive capture of radionuclides in solution and gas. <i>Progress in Materials Science</i> , 2018 , 94, 1-67	42.2	59
38	Thermochemistry of the simplest metal organic frameworks: Formates [M(HCOO) ₂] _x H ₂ O (M = Li, Mg, Mn, Co, Ni, and Zn). <i>Journal of Chemical Thermodynamics</i> , 2018 , 118, 325-330	2.9	3
37	Metal organic frameworks enhanced graphene oxide electrode for humidity sensor. <i>Journal of Physics: Conference Series</i> , 2018 , 986, 012013	0.3	4
36	Design and synthesis of capped-paddlewheel-based porous coordination cages. <i>Chemical Communications</i> , 2019 , 55, 9527-9530	5.8	16
35	Theoretical Study of Methane Storage in Cu(-BDC). <i>Journal of Physical Chemistry A</i> , 2019 , 123, 6251-6258	8	2
34	Neon Adsorption on HKUST-1 and UiO-66 Metal-Organic Frameworks over Wide Pressure and Temperature Ranges. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 5407-5414	2.8	4
33	Reverse Hierarchy of Alkane Adsorption in Metal-Organic Frameworks (MOFs) Revealed by Immersion Calorimetry. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 11699-11706	3.8	8

32	Evaluation Methods of Adsorbents for Air Purification and Gas Separation at Low Concentration: Case Studies on Xenon and Krypton. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 4560-4571	3.9	16
31	Neutron Instruments for Research in Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1065-1089	2.3	18
30	B12N12 cluster as a collector of noble gases: A quantum chemical study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 115, 113697	3	17
29	Next-Generation Accurate, Transferable, and Polarizable Potentials for Material Simulations. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 7632-7644	6.4	1
28	Separation of noble gases through nano porous material membranes. <i>Annals of Nuclear Energy</i> , 2020 , 148, 107730	1.7	0
27	Message Passing Neural Networks for Partial Charge Assignment to Metal-Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19070-19082	3.8	18
26	Elucidating the Structure of the Metal-Organic Framework Ru-HKUST-1. <i>Chemistry of Materials</i> , 2020 , 32, 7710-7715	9.6	2
25	Performance evaluation of CuBTC composites for room temperature oxygen storage.. <i>RSC Advances</i> , 2020 , 10, 40960-40968	3.7	1
24	An Ultra-Microporous Metal-Organic Framework with Exceptional Xe Capacity. <i>Chemistry - A European Journal</i> , 2020 , 26, 12544-12548	4.8	4
23	Radiation-resistant metal-organic framework enables efficient separation of krypton fission gas from spent nuclear fuel. <i>Nature Communications</i> , 2020 , 11, 3103	17.4	24
22	Cryogenic neon adsorption on Co ₃ (ndc) ₃ (dabco) metal-organic framework. <i>Microporous and Mesoporous Materials</i> , 2020 , 298, 110055	5.3	6
21	Non-Isothermal Kinetics of Kr Adsorption by Nanoporous [Mg(BH)] from in Situ Synchrotron Powder Diffraction. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7710-7716	9.5	3
20	Metal-organic frameworks as a versatile platform for radionuclide management. <i>Coordination Chemistry Reviews</i> , 2021 , 427, 213473	23.2	25
19	CoNi Alloy Nanoparticles Embedded in Metal-Organic Framework-Derived Carbon for the Highly Efficient Separation of Xenon and Krypton via a Charge-Transfer Effect. <i>Angewandte Chemie</i> , 2021 , 133, 2461-2468	3.6	7
18	CoNi Alloy Nanoparticles Embedded in Metal-Organic Framework-Derived Carbon for the Highly Efficient Separation of Xenon and Krypton via a Charge-Transfer Effect. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2431-2438	16.4	17
17	Adsorption control of Xe and Kr in SBMOF-2 metal-organic framework by ligand functionalization and different metal atoms. <i>Computational Materials Science</i> , 2021 , 189, 110264	3.2	2
16	Relationship Between Structure and Separation Property. 2021 , 881-922		
15	Peculiarities of Thermodynamic Behaviors of Xenon Adsorption on the Activated Carbon Prepared from Silicon Carbide. <i>Nanomaterials</i> , 2021 , 11,	5.4	1

14 Relationship Between Structure and Separation Property. **2021**, 922-952

13	Predicting adsorption and separation performance indicators of Xe/Kr in metal-organic frameworks via a precursor-based neural network model. <i>Chemical Engineering Science</i> , 2021 , 243, 116772	4.4	1
12	Pore Size Control Multiple-Site Alkylation to Homogenize Sub-Nanoporous Covalent Organic Frameworks for Efficient Sieving of Xenon/Krypton. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 1127-1134	9.5	5
11	Metal-organic framework with optimally selective xenon adsorption and separation. <i>Nature Communications</i> , 2016 , 7, ncomms11831	17.4	232
10	Shell-like Xenon Nano-Traps within Angular Anion-Pillared Layered Porous Materials for Boosting Xe/Kr Separation. <i>Angewandte Chemie</i> ,	3.6	2
9	Shell-like Xenon Nano-Traps within Angular Anion-Pillared Layered Porous Materials for Boosting Xe/Kr Separation.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	4
8	Robust and Radiation-Resistant Hofmann-Type Metal-Organic Frameworks for Record Xenon/Krypton Separation.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	11
7	Creating Optimal Pockets in a Clathrochelate-Based Metal-Organic Framework for Gas Adsorption and Separation: Experimental and Computational Studies.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	9
6	Efficient Xe/Kr Separation Based on a Lanthanide-Organic Framework with One-Dimensional Local Positively Charged Rhomboid Channels.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	2
5	Efficient and selective capture of Xenon over Krypton by a window-cage metal-organic framework with parallel aromatic rings. <i>Separation and Purification Technology</i> , 2022 , 121281	8.3	1
4	Fabrication of HKUST-1/ZnO/SA nanocomposite for Doxycycline and Naproxen adsorption from contaminated water. <i>Sustainable Chemistry and Pharmacy</i> , 2022 , 29, 100757	3.9	0
3	High-throughput virtual screening of metalorganic frameworks for xenon recovery from exhaled anesthetic gas mixture. 2023 , 451, 138218		
2	Water adsorption characterization of bivalent metal doped HKUST-1. 2022 , 35, 101453		0
1	Rational regulating pore structures of covalent organic frameworks for sulfur hexafluoride capture and separation. 2023 , 306, 122595		0