

CITATION REPORT

List of articles citing

Gate-opening effect in ZIF-8: the first experimental proof using inelastic neutron scattering

DOI: 10.1039/c5cc10222g

Chemical Communications, 2016, 52, 3639-42.

Source: <https://exaly.com/paper-pdf/65351300/citation-report.pdf>

Version: 2024-04-28

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
95	Reverse Hierarchy of Alkane Adsorption in MetalOrganic Frameworks (MOFs) Revealed by Immersion Calorimetry.		
94	Defining New Limits in Gas Separations Using Modified ZIF Systems.		
93	Role of crystal size on swing-effect and adsorption induced structure transition of ZIF-8. <i>Dalton Transactions</i> , 2016 , 45, 6893-900	4.3	45
92	Gate Opening, Diffusion, and Adsorption of CO ₂ and N ₂ Mixtures in ZIF-8. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 23458-23468	3.8	32
91	Paving the way for methane hydrate formation on metal-organic frameworks (MOFs). <i>Chemical Science</i> , 2016 , 7, 3658-3666	9.4	66
90	Unusual flexibility of mesophase pitch-derived carbon materials: An approach to the synthesis of graphene. <i>Carbon</i> , 2017 , 115, 539-545	10.4	22
89	Understanding ZIF-8 Performance upon Gas Adsorption by Means of Inelastic Neutron Scattering. <i>ChemistrySelect</i> , 2017 , 2, 2750-2753	1.8	15
88	50th Anniversary Perspective: Polymers and Mixed Matrix Membranes for Gas and Vapor Separation: A Review and Prospective Opportunities. <i>Macromolecules</i> , 2017 , 50, 7809-7843	5.5	481
87	Synthesis and gas sorption behaviour of ZIF-90 with large pore volume. <i>New Journal of Chemistry</i> , 2017 , 41, 13235-13239	3.6	10
86	Understanding the breathing phenomena in nano-ZIF-7 upon gas adsorption. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20938-20946	13	38
85	Computational Study of ZIF-8 and ZIF-67 Performance for Separation of Gas Mixtures. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17999-18011	3.8	50
84	In Situ Observation of Gas Adsorption onto ZIF-8 Using Terahertz Waves. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 17921-17924	3.8	16
83	Molecular Mechanism of Swing Effect in Zeolitic Imidazolate Framework ZIF-8: Continuous Deformation upon Adsorption. <i>ChemPhysChem</i> , 2017 , 18, 2732-2738	3.2	53
82	Detecting Molecular Rotational Dynamics Complementing the Low-Frequency Terahertz Vibrations in a Zirconium-Based Metal-Organic Framework. <i>Physical Review Letters</i> , 2017 , 118, 255502	7.4	42
81	Functional Materials for Gas Storage. Part II: Hydrogen and Methane. 2017 , 281-311		
80	Carbon monoxide adsorption in ZIF-8: Kinetics and equilibrium. <i>Microporous and Mesoporous Materials</i> , 2018 , 265, 227-233	5.3	5
79	Chemical Bonding and Transport Properties in Clathrates-I with Cu ₂ ZnB Frameworks. <i>Chemistry of Materials</i> , 2018 , 30, 3419-3428	9.6	17

78	On flexible force fields for metal-organic frameworks: Recent developments and future prospects. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2018 , 8, e1363	7.9	30
77	Tailoring the gas separation efficiency of metal organic framework ZIF-8 through metal substitution: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4879-4892	3.6	33
76	Inelastic Neutron Scattering Study of the Aluminum and Brønsted Site Location in Aluminosilicate LTA Zeolites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11450-11454	3.8	7
75	Investigation of the Linker Swing Motion in the Zeolitic Imidazolate Framework ZIF-90. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7203-7209	3.8	11
74	Probing the Mechanochemistry of Metal-Organic Frameworks with Low-Frequency Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27442-27450	3.8	25
73	Hydrogen Bonding versus Entropy: Revealing the Underlying Thermodynamics of the Hybrid Organic-Inorganic Perovskite [CH ₃ NH ₃] ₂ PbBr ₃ . <i>Chemistry of Materials</i> , 2018 , 30, 8782-8788	9.6	19
72	On the Efficient Separation of Gas Mixtures with the Mixed-Linker Zeolitic-Imidazolate Framework-7-8. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39631-39644	9.5	25
71	Benchmarking of GGA density functionals for modeling structures of nanoporous, rigid and flexible MOFs. <i>Journal of Chemical Physics</i> , 2018 , 149, 064110	3.9	17
70	Thermodynamic evidence of a transition in ZIF-8 upon CH ₄ sorption. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 16252-16257	3.6	2
69	Post-Synthetic Modification of ZIF-8 Crystals and Films through UV Light Photoirradiation: Impact on the Physicochemical Behavior of the MOF. <i>ChemPhysChem</i> , 2019 , 20, 3201-3209	3.2	7
68	Adsorption of Gases on Zeolitic Imidazolate Frameworks: Modeling with Equations of State for Confined Fluids and Pore Size Distribution Estimation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19702-19708	3.9	4
67	Oxygen condensation in ZIF-8 upon gate opening-structural transition. <i>Molecular Physics</i> , 2019 , 117, 3456-3463	1.7	3
66	Induced-Fit Suction Effect: a booster for biofuel storage and separation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22353-22358	13	1
65	Low-temperature heat capacity measurements on insulating powders sealed under pressure. <i>Journal of Chemical Thermodynamics</i> , 2019 , 136, 170-179	2.9	7
64	Polymer nanocomposites functionalised with nanocrystals of zeolitic imidazolate frameworks as ethylene control agents. <i>Materials Today Advances</i> , 2019 , 2, 100008	7.4	2
63	Room temperature resistive gas sensor based on ZIF-8/MWCNT/AgNPs nanocomposite for VOCs detection. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 12339-12350	2.1	28
62	Flexibility in Metal-Organic Frameworks: A Basic Understanding. <i>Catalysts</i> , 2019 , 9, 512	4	18
61	Heat capacity and thermodynamic functions of crystalline forms of the metal-organic framework zinc 2-methylimidazolate, Zn(MeIm) ₂ . <i>Journal of Chemical Thermodynamics</i> , 2019 , 136, 160-169	2.9	9

60	New insights into the breathing phenomenon in ZIF-4. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14552-14558	9.5	27
59	Linker-Doped Zeolitic Imidazolate Frameworks (ZIFs) and Their Ultrathin Membranes for Tunable Gas Separations. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18377-18385	9.5	27
58	The effect of cobalt content in Zn/Co-ZIF-8 on iodine capping properties. <i>Inorganica Chimica Acta</i> , 2019 , 492, 18-22	2.7	16
57	Simulation of Inelastic Neutron Scattering Spectra Using OCLIMAX. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 1974-1982	6.4	48
56	Guest-host interactions of nanoconfined anti-cancer drug in metal-organic framework exposed by terahertz dynamics. <i>Chemical Communications</i> , 2019 , 55, 3868-3871	5.8	18
55	Phonons in deformable microporous crystalline solids. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2019 , 234, 513-527	1	3
54	Ionic Liquid-Impregnated Metal-Organic Frameworks for CO ₂ /CH ₄ Separation. <i>ACS Applied Nano Materials</i> , 2019 , 2, 7933-7950	5.6	28
53	Neutron Instruments for Research in Coordination Chemistry. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1065-1089	2.3	18
52	Pressure-driven mechanical anisotropy and destabilization in zeolitic imidazolate frameworks. <i>Physical Review B</i> , 2019 , 99,	3.3	17
51	Crystal Engineering of Metal-Organic Framework Thin Films for Gas Separations. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 49-69	8.3	34
50	Parametric study on the mixed solvent synthesis of ZIF-8 nano- and micro-particles for CO adsorption: A response surface study. <i>Frontiers of Chemical Science and Engineering</i> , 2020 , 14, 579-594	4.5	11
49	Functionalized Dynamic Metal-Organic Frameworks as Smart Switches for Sensing and Adsorption Applications. <i>Topics in Current Chemistry</i> , 2019 , 378, 5	7.2	10
48	Structural Deterioration of Well-Faceted MOFs upon HS Exposure and Its Effect in the Adsorption Performance. <i>Chemistry - A European Journal</i> , 2020 , 26, 17110-17119	4.8	1
47	Spectroscopy, microscopy, diffraction and scattering of archetypal MOFs: formation, metal sites in catalysis and thin films. <i>Chemical Society Reviews</i> , 2020 , 49, 6694-6732	58.5	26
46	Capture and Decomposition of the Nerve Agent Simulant, DMCP, Using the Zeolitic Imidazolate Framework (ZIF-8). <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 58326-58338	9.5	7
45	Crystal Size-Dependent Pore Architecture and Surface Chemical Characteristics of Desolvated ZIF-8 Investigated Using Positron Annihilation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25291-25298	3.8	29
44	Simulation of Inelastic Neutron Scattering Spectra Directly from Molecular Dynamics Trajectories. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 7702-7708	6.4	4
43	Flow synthesis of polycrystalline ZIF-8 membranes on polyvinylidene fluoride hollow fibers for recovery of hydrogen and propylene. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 88, 319-327	6.3	8

42	Defect-free mixed-matrix membranes consisting of anion-pillared metal-organic frameworks and poly(ionic liquid)s for separation of acetylene from ethylene. <i>Journal of Membrane Science</i> , 2020 , 611, 118329	9.6	7
41	Highly efficient separation of 1, 3-butadiene from nitrogen mixture by adsorption on highly stable MOF. <i>Chemical Engineering Journal</i> , 2020 , 402, 125980	14.7	11
40	MOF-Based Membranes for Gas Separations. <i>Chemical Reviews</i> , 2020 , 120, 8161-8266	68.1	255
39	Metal-Organic Framework (MOF) through the Lens of Molecular Dynamics Simulation: Current Status and Future Perspective. <i>Journal of Composites Science</i> , 2020 , 4, 75	3	22
38	Advancing Metal-Organic Frameworks toward Smart Sensing: Enhanced Fluorescence by a Photonic Metal-Organic Framework for Organic Vapor Sensing. <i>Advanced Optical Materials</i> , 2020 , 8, 2000961	8.1	12
37	Thermodynamic Evidence of Structural Transformations in CO-Loaded Metal-Organic Framework Zn(Melm) from Heat Capacity Measurements. <i>Journal of the American Chemical Society</i> , 2020 , 142, 4833-4841	16.4	16
36	Improved propylene/propane separation performance under high temperature and pressures on in-situ ligand-doped ZIF-8 membranes. <i>Journal of Membrane Science</i> , 2021 , 617, 118655	9.6	14
35	Fabrication of zeolitic imidazolate frameworks based mixed matrix membranes and mass transfer properties of C4H6 and N2 in membrane separation. <i>AIChE Journal</i> , 2021 , 67, e17114	3.6	1
34	Synthesis of ZIF-8 with encapsulated hexachlorocyclotriphosphazene and its quenching mechanism for flame-retardant epoxy resin. <i>Microporous and Mesoporous Materials</i> , 2021 , 314, 110885	5.3	15
33	Hybrid Perovskites, Metal-Organic Frameworks, and Beyond: Unconventional Degrees of Freedom in Molecular Frameworks. <i>Accounts of Chemical Research</i> , 2021 , 54, 1288-1297	24.3	8
32	Comparative Evaluation of Different MOF and Non-MOF Porous Materials for SO2 Adsorption and Separation Showing the Importance of Small Pore Diameters for Low-Pressure Uptake. <i>Advanced Sustainable Systems</i> , 2021 , 5, 2000285	5.9	12
31	Molecular Sieving Properties of Nanoporous Mixed-Linker ZIF-62: Associated Structural Changes upon Gas Adsorption Application. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3519-3528	5.6	0
30	Ultralow thermal conductivity in quaternary compound Ag2BaSnSe4 due to square-cylinder cage-like structure with rattling vibration. <i>Applied Physics Letters</i> , 2021 , 118, 143903	3.4	0
29	Dynamics & Spectroscopy with Neutrons-Recent Developments & Emerging Opportunities. <i>Polymers</i> , 2021 , 13,	4.5	2
28	Fine-Tuning Window Apertures in ZIF-8/67 Frameworks by Metal Ions and Temperature for High-Efficiency Molecular Sieving of Xylenes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40830-40836	8.5	3
27	New route for the synthesis of Co-MOF from metal substrates. <i>Microporous and Mesoporous Materials</i> , 2021 , 324, 111310	5.3	0
26	Selective adsorption of CO2 and SF6 on mixed-linker ZIF-7Bs: The effect of linker substitution on uptake capacity and kinetics. <i>Chemical Engineering Journal</i> , 2021 , 422, 130117	14.7	12
25	Flexibility and Switchable Porosity in Metal-Organic Frameworks: Phenomena, Characterization and Functions. 2021 , 328-375		

24	ResponZIF Structures: Zeolitic Imidazolate Frameworks as Stimuli-Responsive Materials. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 50602-50642	9.5	3
23	CHAPTER 9: Metal Organic Frameworks: From Material Chemistry to Catalytic Applications. <i>RSC Energy and Environment Series</i> , 2020 , 235-303	0.6	2
22	Thermally activated dynamic gating underlies higher gas adsorption at higher temperatures in metal-organic frameworks. <i>Journal of Materials Chemistry A</i> ,	13	1
21	Zeolitic imidazolate frameworks containing Zn as catalysts for the Knoevenagel condensation reaction. <i>Brazilian Journal of Chemical Engineering</i> , 1	1.7	
20	H ₂ , N ₂ , CO ₂ , and CH ₄ Unary Adsorption Isotherm Measurements at Low and High Pressures on Zeolitic Imidazolate Framework ZIF-8. <i>Journal of Chemical & Engineering Data</i> ,	2.8	0
19	New Generation of MOF-Monoliths Based on Metal Foams.. <i>Molecules</i> , 2022 , 27,	4.8	0
18	Postsynthetic Modification of Zn/Co-ZIF by 3,5-Diamino-1,2,4-triazole for Improved MOF/Polyimide Interface in CO ₂ -Selective Mixed Matrix Membranes.		
17	Review on the synergistic effect between metal-organic frameworks and gas hydrates for CH ₄ storage and CO ₂ separation applications. 2022 , 167, 112807		3
16	Network-Nanostructured ZIF-8 to Enable Percolation for Enhanced Gas Transport. 2207775		0
15	Elucidating Correlated Defects in Metal Organic Frameworks Using Theory-Guided Inelastic Neutron Scattering Spectroscopy.		0
14	Evaluation of ZIF-8 flexible force fields for structural and mechanical properties. 2023 , 348, 112406		0
13	ZIF-L to ZIF-8 Transformation: Morphology and Structure Controls. 2022 , 12, 4224		0
12	Flexibility of Mixed Ligand Zeolitic Imidazolate Frameworks (ZIF-7B) under CO ₂ Pressure: An Investigation Using Positron Annihilation Lifetime Spectroscopy. 2022 , 38, 15694-15702		0
11	Leaching in Specific Facets of ZIF-67 and ZIF-L Zeolitic Imidazolate Frameworks During the CO ₂ Cycloaddition with Epichlorohydrin.		0
10	Gate Opening Induced High Pore Volume Expansion in Flexible Zeolitic Imidazole Frameworks during CO ₂ Adsorption: A Direct Observation Using Positron Annihilation Spectroscopy. 2023 , 127, 2160-2172		0
9	Dye encapsulation and one-pot synthesis of microporous/mesoporous zeolitic imidazolate frameworks for CO ₂ sorption and adenosine triphosphate biosensing.		1
8	Elastic analysis of ZIF-8 and ZIF-8 filled with hydrogen molecules by density functional theory. 2023 , 35, 105970		0
7	Polymer Membranes of Zeolitic Imidazole Framework-8 with Sodium Alginate Synthesized from ZIF-8 and Their Application in Light Gas Separation. 2023 , 15, 1011		0

- 6 Ni-Co bimetallic decorated dodecahedral ZIF as an efficient catalyst for photoelectrochemical degradation of sulfamethoxazole coupled with hydrogen production. **2023**, 873, 162208
- 5 Cellulose-based sponge@ZIF-8 from waste straws for water disinfection. **2023**, 13, 7554-7560
- 4 ZIF/PA thin film nano-composite (TFN) total heat exchange membranes (THEMs): Preparation, performance and integrated online testing. **2023**, 121, 107999
- 3 Fundamentals of MOF Mechanics & Structure-Mechanical Property Relationships. **2023**, 1-64
- 2 Investigating the function and design of molecular materials through terahertz vibrational spectroscopy.
- 1 Extreme Flexibility and Unusual Piezomechanical Properties of Zinc-Alkyl-Based Metal-Organic Frameworks: A First Principles Study. **2023**, 106054