

A Ozgur Yazaydin

List of Publications by Year in descending order

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66
papers

10,389
citations

126708

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106150

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77
all docs

77
docs citations

77
times ranked

11484
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high Porosity in Metal-Organic Frameworks. <i>Science</i> , 2010, 329, 424-428.	6.0	3,306
2	De novo synthesis of a metal-organic framework material featuring ultra-high surface area and gas storage capacities. <i>Nature Chemistry</i> , 2010, 2, 944-948.	6.6	1,535
3	Metal-Organic Framework Materials with Ultra-high Surface Areas: Is the Sky the Limit?. <i>Journal of the American Chemical Society</i> , 2012, 134, 15016-15021.	6.6	1,497
4	Screening of Metal-Organic Frameworks for Carbon Dioxide Capture from Flue Gas Using a Combined Experimental and Modeling Approach. <i>Journal of the American Chemical Society</i> , 2009, 131, 18198-18199.	6.6	816
5	Enhanced CO ₂ Adsorption in Metal-Organic Frameworks via Occupation of Open-Metal Sites by Coordinated Water Molecules. <i>Chemistry of Materials</i> , 2009, 21, 1425-1430.	3.2	523
6	A comparative study of CO ₂ , CH ₄ and N ₂ adsorption in ZIF-8, Zeolite-13X and BPL activated carbon. <i>Chemical Physics</i> , 2013, 412, 72-76.	0.9	263
7	Evaluation of the BET Method for Determining Surface Areas of MOFs and Zeolites that Contain Ultra-Micropores. <i>Langmuir</i> , 2010, 26, 5475-5483.	1.6	257
8	A combined experimental and quantum chemical study of CO ₂ adsorption in the metal-organic framework CPO-27 with different metals. <i>Chemical Science</i> , 2013, 4, 3544.	3.7	172
9	Structure, Energetics, and Dynamics of Smectite Clay Interlayer Hydration: Molecular Dynamics and Metadynamics Investigation of Na-Hectorite. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5172-5187.	1.5	102
10	Synergistic Interaction of Paclitaxel and Curcumin with Cyclodextrin Polymer Complexation in Human Cancer Cells. <i>Molecular Pharmaceutics</i> , 2013, 10, 2676-2683.	2.3	97
11	Computer-Assisted Screening of Ordered Crystalline Nanoporous Adsorbents for Separation of Alkane Isomers. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11867-11871.	7.2	89
12	Dehydration-Induced Amorphous Phases of Calcium Carbonate. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3328-3336.	1.2	74
13	Adsorption of Atrazine from Water in Metal-Organic Framework Materials. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 2368-2375.	1.0	71
14	Structure and Transformation of Amorphous Calcium Carbonate: A Solid-State ⁴³ Ca NMR and Computational Molecular Dynamics Investigation. <i>Chemistry of Materials</i> , 2012, 24, 1828-1836.	3.2	70
15	Concentration gradient driven molecular dynamics: a new method for simulations of membrane permeation and separation. <i>Chemical Science</i> , 2017, 8, 3858-3865.	3.7	66
16	Modeling of Gas Transport through Polymer/MOF Interfaces: A Microsecond-Scale Concentration Gradient-Driven Molecular Dynamics Study. <i>Chemistry of Materials</i> , 2020, 32, 1288-1296.	3.2	64
17	From 2-methylimidazole to 1,2,3-triazole: a topological transformation of ZIF-8 and ZIF-67 by post-synthetic modification. <i>Chemical Communications</i> , 2017, 53, 2028-2031.	2.2	61
18	Gas permeation through single-crystal ZIF-8 membranes. <i>Journal of Membrane Science</i> , 2019, 575, 209-216.	4.1	61

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19	How Well Do Metal-Organic Frameworks Tolerate Flue Gas Impurities?. Journal of Physical Chemistry C, 2012, 116, 22987-22991.	1.5	60
20	Structure, Energetics, and Dynamics of Cs ⁺ and H ₂ O in Hectorite: Molecular Dynamics Simulations with an Unconstrained Substrate Surface. Journal of Physical Chemistry C, 2016, 120, 10298-10310.	1.5	60
21	The effect of SO ₂ on CO ₂ capture in zeolitic imidazolate frameworks. Physical Chemistry Chemical Physics, 2013, 15, 11856.	1.3	59
22	Molecular simulation of water adsorption in silicalite: Effect of silanol groups and different cations. Microporous and Mesoporous Materials, 2009, 123, 169-176.	2.2	57
23	Design of electric field controlled molecular gates mounted on metal-organic frameworks. Journal of Materials Chemistry A, 2017, 5, 8690-8696.	5.2	51
24	Rapid and Efficient Removal of Carbamazepine from Water by UiO-67. Industrial & Engineering Chemistry Research, 2017, 56, 15122-15130.	1.8	51
25	A cobalt arylphosphonate MOF - superior stability, sorption and magnetism. Chemical Communications, 2019, 55, 3053-3056.	2.2	50
26	Semiconductive microporous hydrogen-bonded organophosphonic acid frameworks. Nature Communications, 2020, 11, 3180.	5.8	50
27	Cation and Water Structure, Dynamics, and Energetics in Smectite Clays: A Molecular Dynamics Study of Ca-Hectorite. Journal of Physical Chemistry C, 2016, 120, 12429-12439.	1.5	48
28	Screening CO ₂ /N ₂ selectivity in metal-organic frameworks using Monte Carlo simulations and ideal adsorbed solution theory. Canadian Journal of Chemical Engineering, 2012, 90, 825-832.	0.9	46
29	Clay Swelling in Dry Supercritical Carbon Dioxide: Effects of Interlayer Cations on the Structure, Dynamics, and Energetics of CO ₂ Intercalation Probed by XRD, NMR, and GCMC Simulations. Journal of Physical Chemistry C, 2018, 122, 4391-4402.	1.5	42
30	Rapid and Efficient Removal of Perfluorooctanoic Acid from Water with Fluorine-Rich Calixarene-Based Porous Polymers. ACS Applied Materials & Interfaces, 2020, 12, 43160-43166.	4.0	40
31	Tipping Point for Expansion of Layered Aluminosilicates in Weakly Polar Solvents: Supercritical CO ₂ . ACS Applied Materials & Interfaces, 2017, 9, 36783-36791.	4.0	38
32	Molecular Simulation of the Adsorption of MTBE in Silicalite, Mordenite, and Zeolite Beta. Journal of Physical Chemistry B, 2006, 110, 14458-14462.	1.2	37
33	Hydrogen and methane storage in ultrahigh surface area Metal-Organic Frameworks. Microporous and Mesoporous Materials, 2013, 182, 185-190.	2.2	36
34	Molecular Dynamics Study of CO ₂ and H ₂ O Intercalation in Smectite Clays: Effect of Temperature and Pressure on Interlayer Structure and Dynamics in Hectorite. Journal of Physical Chemistry C, 2017, 121, 24527-24540.	1.5	34
35	ZnO@ZIF-8: Gas sensitive core-shell hetero-structures show reduced cross-sensitivity to humidity. Sensors and Actuators B: Chemical, 2020, 304, 127184.	4.0	34
36	NMR and computational molecular modeling studies of mineral surfaces and interlayer galleries: A review. American Mineralogist, 2015, 100, 1341-1354.	0.9	32

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37	Water Structure and Dynamics in Smectites: X-ray Diffraction and ^2H NMR Spectroscopy of Mg^{2+} , Ca^{2+} , Sr^{2+} , Na^{+} , Cs^{+} , and Pb^{2+} Hectorite. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8863-8876.	1.5	32
38	Two Large-Pore Metal-Organic Frameworks Derived from a Single Polytopic Strut. <i>Crystal Growth and Design</i> , 2012, 12, 1075-1080.	1.4	31
39	Does Confinement Enable Methane Hydrate Growth at Low Pressures? Insights from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11015-11022.	1.5	31
40	Selective Gas Adsorption in a Pair of Robust Isostructural MOFs Differing in Framework Charge and Anion Loading. <i>Inorganic Chemistry</i> , 2014, 53, 12076-12083.	1.9	29
41	Anhydrous proton conducting poly(vinyl alcohol) (PVA)/ poly(2-acrylamido-2-methylpropane sulfonic) Tj ETQq1 1 0.784314 rgBT /Overle 11321-11330.	3.8	28
42	Understanding methane/carbon dioxide partitioning in clay nano- and meso-pores with constant reservoir composition molecular dynamics modeling. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 6917-6924.	1.3	21
43	Molecular dynamics modeling of carbon dioxide, water and natural organic matter in Na-hectorite. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23356-23367.	1.3	20
44	Alkali Phosphonate Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2019, 25, 11214-11217.	1.7	20
45	Role of Cations in the Methane/Carbon Dioxide Partitioning in Nano- and Mesopores of Illite Using Constant Reservoir Composition Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2490-2500.	1.5	20
46	From Tetrahedral Tetraphosphonic Acids $\text{E}[\text{P}(\text{O})(\text{OH})_2]_4$ (E=C, Si) to Porous Cu- and Zn-MOFs with Large Surface Areas. <i>ChemistrySelect</i> , 2017, 2, 3035-3038.	0.7	19
47	A Nanotubular Metal-Organic Framework with a Narrow Bandgap from Extended Conjugation**. <i>Chemistry - A European Journal</i> , 2020, 26, 14813-14816.	1.7	18
48	Tuning the Transport Properties of Gases in Porous Graphene Membranes with Controlled Pore Size and Thickness. <i>Advanced Materials</i> , 2022, 34, e2106785.	11.1	18
49	Competitive Adsorption of H_2O and CO_2 in 2-Dimensional Nanoconfinement: GCMC Simulations of Cs- and Ca-Hectorites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23460-23469.	1.5	17
50	Electric field induced rotation of halogenated organic linkers in isorecticular metal-organic frameworks for nanofluidic applications. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 951-958.	1.7	16
51	Tuning the Hydrophobicity of Layer-Structure Silicates To Promote Adsorption of Nonaqueous Fluids: Effects of F^+ for OH^+ Substitution on CO_2 Partitioning into Smectite Interlayers. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4848-4855.	1.5	15
52	A molecular simulation approach to the study of adsorption of hydrogen cyanide and methyl ethyl ketone in silicalite, mordenite and zeolite beta structures. <i>Molecular Simulation</i> , 2007, 33, 843-850.	0.9	11
53	Bubble point pressure estimates from Gibbs ensemble simulations. <i>Fluid Phase Equilibria</i> , 2007, 260, 195-198.	1.4	11
54	Direct Simulation of Ternary Mixture Separation in a ZIF-8 Membrane at Molecular Scale. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900120.	1.3	10

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55	Diffusion Behavior of Methane in 3D Kerogen Models. Energy & Fuels, 0, , .	2.5	10
56	Simulating the vapour-liquid equilibria of 1,4-dioxane. Molecular Simulation, 2006, 32, 657-662.	0.9	8
57	Short Naphthalene Organophosphonate Linkers to Microporous Frameworks. ChemistrySelect, 2017, 2, 7050-7053.	0.7	8
58	Electrically Conductive Photoluminescent Porphyrin Phosphonate Metal-Organic Frameworks. Advanced Optical Materials, 2022, 10, .	3.6	8
59	Molecular simulation studies of hydrogen enriched methane (HEM) storage in Covalent Organic Frameworks. Microporous and Mesoporous Materials, 2016, 231, 138-146.	2.2	7
60	Computing Adsorbate/Adsorbent Binding Energies and Henry's Law Constants from Molecular Simulations. Environmental Engineering Science, 2009, 26, 297-304.	0.8	5
61	The role of hydrogen bonding in the dehydration of bioalcohols in hydrophobic pervaporation membranes. Journal of Molecular Liquids, 2021, 340, 117297.	2.3	5
62	Supercritical carbon dioxide enhanced natural gas recovery from kerogen micropores. Journal of CO2 Utilization, 2022, 62, 102105.	3.3	5
63	Coordination-Induced Band Gap Reduction in a Metal-Organic Framework. Chemistry - A European Journal, 2022, 28, e202104041.	1.7	4
64	Scanning electron microscopic studies of porous carbon electrodes used in alkaline fuel cells. Chemical Engineering Communications, 2003, 190, 976-985.	1.5	1
65	1-Bromopropane Capture with Hydrophobic Zeolites: Force Field Development and Molecular Simulations. Journal of Physical Chemistry C, 2022, 126, 5728-5734.	1.5	1
66	Screening of Zeolitic Imidazolate Frameworks for Preconcentration of Hazardous Chemicals. NATO Science for Peace and Security Series A: Chemistry and Biology, 2015, , 177-189.	0.5	0