

# A Ozgur Yazaydin

## List of Publications by Citations

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66

papers

8,638

citations

29

h-index

77

g-index

77

ext. papers

9,507

ext. citations

6.4

avg, IF

5.89

L-index

#	Paper	IF	Citations
66	Ultrahigh porosity in metal-organic frameworks. <i>Science</i> , <b>2010</b> , 329, 424-8	33.3	2869
65	De novo synthesis of a metal-organic framework material featuring ultrahigh surface area and gas storage capacities. <i>Nature Chemistry</i> , <b>2010</b> , 2, 944-8	17.6	1350
64	Metal-organic framework materials with ultrahigh surface areas: is the sky the limit?. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 15016-21	16.4	1210
63	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> , <b>2009</b> , 131, 18198-9	16.4	737
62	Enhanced CO <sub>2</sub> Adsorption in Metal-Organic Frameworks via Occupation of Open-Metal Sites by Coordinated Water Molecules. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 1425-1430	9.6	472
61	A comparative study of CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> adsorption in ZIF-8, Zeolite-13X and BPL activated carbon. <i>Chemical Physics</i> , <b>2013</b> , 412, 72-76	2.3	207
60	Evaluation of the BET method for determining surface areas of MOFs and zeolites that contain ultra-micropores. <i>Langmuir</i> , <b>2010</b> , 26, 5475-83	4	193
59	A combined experimental and quantum chemical study of CO <sub>2</sub> adsorption in the metal-organic framework CPO-27 with different metals. <i>Chemical Science</i> , <b>2013</b> , 4, 3544	9.4	142
58	Structure, Energetics, and Dynamics of Smectite Clay Interlayer Hydration: Molecular Dynamics and Metadynamics Investigation of Na-Hectorite. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 5172-5187	3.8	85
57	Computer-assisted screening of ordered crystalline nanoporous adsorbents for separation of alkane isomers. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 11867-71	16.4	81
56	Synergistic interaction of paclitaxel and curcumin with cyclodextrin polymer complexation in human cancer cells. <i>Molecular Pharmaceutics</i> , <b>2013</b> , 10, 2676-83	5.6	72
55	Structure and Transformation of Amorphous Calcium Carbonate: A Solid-State <sup>43</sup> Ca NMR and Computational Molecular Dynamics Investigation. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 1828-1836	9.6	62
54	Dehydration-induced amorphous phases of calcium carbonate. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 3328-36	3.4	54
53	Molecular simulation of water adsorption in silicalite: Effect of silanol groups and different cations. <i>Microporous and Mesoporous Materials</i> , <b>2009</b> , 123, 169-176	5.3	54
52	The effect of SO <sub>2</sub> on CO <sub>2</sub> capture in zeolitic imidazolate frameworks. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 11856-61	3.6	51
51	How Well Do Metal-Organic Frameworks Tolerate Flue Gas Impurities?. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 22987-22991	3.8	51
50	Structure, Energetics, and Dynamics of Cs <sup>+</sup> and H <sub>2</sub> O in Hectorite: Molecular Dynamics Simulations with an Unconstrained Substrate Surface. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 10298-10310	3.8	50

49	Adsorption of Atrazine from Water in Metal-Organic Framework Materials. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2018</b> , 63, 2368-2375	2.8	44
48	Concentration gradient driven molecular dynamics: a new method for simulations of membrane permeation and separation. <i>Chemical Science</i> , <b>2017</b> , 8, 3858-3865	9.4	43
47	Design of electric field controlled molecular gates mounted on metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8690-8696	13	41
46	Screening CO <sub>2</sub> /N <sub>2</sub> selectivity in metal-organic frameworks using Monte Carlo simulations and ideal adsorbed solution theory. <i>Canadian Journal of Chemical Engineering</i> , <b>2012</b> , 90, 825-832	2.3	41
45	Cation and Water Structure, Dynamics, and Energetics in Smectite Clays: A Molecular Dynamics Study of Ca-Hectorite. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 12429-12439	3.8	40
44	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> , <b>2017</b> , 53, 2028-2031	5.8	37
43	A cobalt arylphosphonate MOF - superior stability, sorption and magnetism. <i>Chemical Communications</i> , <b>2019</b> , 55, 3053-3056	5.8	34
42	Rapid and Efficient Removal of Carbamazepine from Water by UiO-67. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 15122-15130	3.9	34
41	Two Large-Pore Metal-Organic Frameworks Derived from a Single Polytopic Strut. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 1075-1080	3.5	31
40	Molecular simulation of the adsorption of MTBE in silicalite, mordenite, and zeolite beta. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 14458-62	3.4	31
39	Gas permeation through single-crystal ZIF-8 membranes. <i>Journal of Membrane Science</i> , <b>2019</b> , 575, 209-216	6.6	30
38	Clay Swelling in Dry Supercritical Carbon Dioxide: Effects of Interlayer Cations on the Structure, Dynamics, and Energetics of CO <sub>2</sub> Intercalation Probed by XRD, NMR, and GCMC Simulations. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 4391-4402	3.8	30
37	Tipping Point for Expansion of Layered Aluminosilicates in Weakly Polar Solvents: Supercritical CO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 36783-36791	9.5	29
36	Modeling of Gas Transport through Polymer/MOF Interfaces: A Microsecond-Scale Concentration Gradient-Driven Molecular Dynamics Study. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1288-1296	9.6	29
35	Selective gas adsorption in a pair of robust isostructural MOFs differing in framework charge and anion loading. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 12076-83	5.1	28
34	Hydrogen and methane storage in ultrahigh surface area Metal-Organic Frameworks. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 182, 185-190	5.3	28
33	Water Structure and Dynamics in Smectites: X-ray Diffraction and 2H NMR Spectroscopy of Mg-Ca-Sr-Na-Cs and Pb-Hectorite. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 8863-8876	3.8	28
32	Molecular Dynamics Study of CO <sub>2</sub> and H <sub>2</sub> O Intercalation in Smectite Clays: Effect of Temperature and Pressure on Interlayer Structure and Dynamics in Hectorite. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 24527-24540	3.8	26

31	Review. NMR and computational molecular modeling studies of mineral surfaces and interlayer galleries: A review. <i>American Mineralogist</i> , <b>2015</b> , 100, 1341-1354	2.9	25
30	Anhydrous proton conducting poly(vinyl alcohol) (PVA)/ poly(2-acrylamido-2-methylpropane sulfonic acid) (PAMPS)/1,2,4-triazole composite membrane. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 11321-11330	6.7	23
29	Semiconductive microporous hydrogen-bonded organophosphonic acid frameworks. <i>Nature Communications</i> , <b>2020</b> , 11, 3180	17.4	22
28	ZnO@ZIF-8: Gas sensitive core-shell hetero-structures show reduced cross-sensitivity to humidity. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 304, 127184	8.5	18
27	Rapid and Efficient Removal of Perfluorooctanoic Acid from Water with Fluorine-Rich Calixarene-Based Porous Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 43160-43166	9.5	17
26	From Tetrahedral Tetraphosphonic Acids E[p-C6H4P(O)(OH)2]4 (E=C, Si) to Porous Cu- and Zn-MOFs with Large Surface Areas. <i>ChemistrySelect</i> , <b>2017</b> , 2, 3035-3038	1.8	16
25	Understanding methane/carbon dioxide partitioning in clay nano- and meso-pores with constant reservoir composition molecular dynamics modeling. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 6917-6924	3.6	15
24	Molecular dynamics modeling of carbon dioxide, water and natural organic matter in Na-hectorite. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 23356-67	3.6	15
23	Does Confinement Enable Methane Hydrate Growth at Low Pressures? Insights from Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 11015-11022	3.8	12
22	Competitive Adsorption of H2O and CO2 in 2-Dimensional Nanoconfinement: GCMD Simulations of Cs- and Ca-Hectorites. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 23460-23469	3.8	12
21	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> , <b>2020</b> , 124, 2490-2500	3.8	11
20	Bubble point pressure estimates from Gibbs ensemble simulations. <i>Fluid Phase Equilibria</i> , <b>2007</b> , 260, 195-198	2.5	11
19	Alkali Phosphonate Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 11214-11217	4.8	10
18	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> , <b>2007</b> , 33, 843-850	2	10
17	Electric field induced rotation of halogenated organic linkers in isorecticular metal-organic frameworks for nanofluidic applications. <i>Molecular Systems Design and Engineering</i> , <b>2018</b> , 3, 951-958	4.6	10
16	Tuning the Hydrophobicity of Layer-Structure Silicates To Promote Adsorption of Nonaqueous Fluids: Effects of F/ OH Substitution on CO2 Partitioning into Smectite Interlayers. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 4848-4855	3.8	9
15	A Nanotubular Metal-Organic Framework with a Narrow Bandgap from Extended Conjugation*. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 14813-14816	4.8	9
14	Simulating the vapour-liquid equilibria of 1,4-dioxane. <i>Molecular Simulation</i> , <b>2006</b> , 32, 657-662	2	8

13	Direct Simulation of Ternary Mixture Separation in a ZIF-8 Membrane at Molecular Scale. <i>Advanced Theory and Simulations</i> , <b>2019</b> , 2, 1900120	3.5	7
12	Short Naphthalene Organophosphonate Linkers to Microporous Frameworks. <i>ChemistrySelect</i> , <b>2017</b> , 2, 7050-7053	1.8	6
11	Molecular simulation studies of hydrogen enriched methane (HEM) storage in Covalent Organic Frameworks. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 231, 138-146	5.3	6
10	Computing Adsorbate/Adsorbent Binding Energies and Henry's Law Constants from Molecular Simulations. <i>Environmental Engineering Science</i> , <b>2009</b> , 26, 297-304	2	5
9	Tuning the Transport Properties of Gases in Porous Graphene Membranes with Controlled Pore Size and Thickness. <i>Advanced Materials</i> , <b>2021</b> , e2106785	24	2
8	Nanotechnology for Carbon Dioxide Capture 359-401		1
7	Scanning electron microscopic studies of porous carbon electrodes used in alkaline fuel cells. <i>Chemical Engineering Communications</i> , <b>2003</b> , 190, 976-985	2.2	1
6	The role of hydrogen bonding in the dehydration of bioalcohols in hydrophobic pervaporation membranes. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 340, 117297	6	1
5	Electrically Conductive Photoluminescent Porphyrin Phosphonate Metal-Organic Frameworks. <i>Advanced Optical Materials</i> , 2200213	8.1	1
4	1-Bromopropane Capture with Hydrophobic Zeolites: Force Field Development and Molecular Simulations. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 5728-5734	3.8	0
3	Screening of Zeolitic Imidazolate Frameworks for Preconcentration of Hazardous Chemicals. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , <b>2015</b> , 177-189	0.1	
2	Nanotechnology for Carbon Dioxide Capture <b>2013</b> , 517-559		
1	Coordination-induced band gap reduction in a metal-organic framework. <i>Chemistry - A European Journal</i> , <b>2021</b> , e202104041	4.8	