

A Ozgur Yazaydin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	1-Bromopropane Capture with Hydrophobic Zeolites: Force Field Development and Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5728-5734	3.8	0
65	Coordination-induced band gap reduction in a metal-organic framework. <i>Chemistry - A European Journal</i> , 2021 , e202104041	4.8	
64	Tuning the Transport Properties of Gases in Porous Graphene Membranes with Controlled Pore Size and Thickness. <i>Advanced Materials</i> , 2021 , e2106785	24	2
63	The role of hydrogen bonding in the dehydration of bioalcohols in hydrophobic pervaporation membranes. <i>Journal of Molecular Liquids</i> , 2021 , 340, 117297	6	1
62	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	3.8	12
61	Semiconductive microporous hydrogen-bonded organophosphonic acid frameworks. <i>Nature Communications</i> , 2020 , 11, 3180	17.4	22
60	A Nanotubular Metal-Organic Framework with a Narrow Bandgap from Extended Conjugation*. <i>Chemistry - A European Journal</i> , 2020 , 26, 14813-14816	4.8	9
59	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	3.8	11
58	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	9.6	29
57	Rapid and Efficient Removal of Perfluorooctanoic Acid from Water with Fluorine-Rich Calixarene-Based Porous Polymers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43160-43166	9.5	17
56	ZnO@ZIF-8: Gas sensitive core-shell hetero-structures show reduced cross-sensitivity to humidity. <i>Sensors and Actuators B: Chemical</i> , 2020 , 304, 127184	8.5	18
55	A cobalt arylphosphonate MOF - superior stability, sorption and magnetism. <i>Chemical Communications</i> , 2019 , 55, 3053-3056	5.8	34
54	Gas permeation through single-crystal ZIF-8 membranes. <i>Journal of Membrane Science</i> , 2019 , 575, 209-216	16.6	30
53	Alkali Phosphonate Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2019 , 25, 11214-11217	4.8	10
52	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	3.6	15
51	Tuning the Hydrophobicity of Layer-Structure Silicates To Promote Adsorption of Nonaqueous Fluids: Effects of Fluorine Substitution on CO ₂ Partitioning into Smectite Interlayers. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4848-4855	3.8	9
50	Direct Simulation of Ternary Mixture Separation in a ZIF-8 Membrane at Molecular Scale. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900120	3.5	7

49	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 GCMD Simulations. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 4391-4402	3.8	30
48	Adsorption of Atrazine from Water in Metal-Organic Framework Materials. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 2368-2375	2.8	44
47	Electric field induced rotation of halogenated organic linkers in isoreticular metal-organic frameworks for nanofluidic applications. <i>Molecular Systems Design and Engineering</i> , 2018 , 3, 951-958	4.6	10
46	Competitive Adsorption of H ₂ O and CO ₂ in 2-Dimensional Nanoconfinement: GCMD Simulations of Cs- and Ca-Hectorites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23460-23469	3.8	12
45	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	5.8	37
44	Design of electric field controlled molecular gates mounted on metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8690-8696	13	41
43	From Tetrahedral Tetraphosphonic Acids E[p-C ₆ H ₄ P(O)(OH) ₂] ₄ (E=C, Si) to Porous Cu- and Zn-MOFs with Large Surface Areas. <i>ChemistrySelect</i> , 2017 , 2, 3035-3038	1.8	16
42	Concentration gradient driven molecular dynamics: a new method for simulations of membrane permeation and separation. <i>Chemical Science</i> , 2017 , 8, 3858-3865	9.4	43
41	Tipping Point for Expansion of Layered Aluminosilicates in Weakly Polar Solvents: Supercritical CO ₂ . <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36783-36791	9.5	29
40	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. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 24527-24540	3.8	26
39	Short Naphthalene Organophosphonate Linkers to Microporous Frameworks. <i>ChemistrySelect</i> , 2017 , 2, 7050-7053	1.8	6
38	Rapid and Efficient Removal of Carbamazepine from Water by UiO-67. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 15122-15130	3.9	34
37	Cation and Water Structure, Dynamics, and Energetics in Smectite Clays: A Molecular Dynamics Study of Ca-Hectorite. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12429-12439	3.8	40
36	Molecular simulation studies of hydrogen enriched methane (HEM) storage in Covalent Organic Frameworks. <i>Microporous and Mesoporous Materials</i> , 2016 , 231, 138-146	5.3	6
35	Structure, Energetics, and Dynamics of Cs ⁺ and H ₂ O in Hectorite: Molecular Dynamics Simulations with an Unconstrained Substrate Surface. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10298-10310	3.8	50
34	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	3.8	28
33	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> , 2016 , 41, 11321-11330	6.7	23
32	Review. NMR and computational molecular modeling studies of mineral surfaces and interlayer galleries: A review. <i>American Mineralogist</i> , 2015 , 100, 1341-1354	2.9	25

31	Molecular dynamics modeling of carbon dioxide, water and natural organic matter in Na-hectorite. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23356-67	3.6	15
30	Screening of Zeolitic Imidazolate Frameworks for Preconcentration of Hazardous Chemicals. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , 2015 , 177-189	0.1	
29	Selective gas adsorption in a pair of robust isostructural MOFs differing in framework charge and anion loading. <i>Inorganic Chemistry</i> , 2014 , 53, 12076-83	5.1	28
28	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	9.4	142
27	Hydrogen and methane storage in ultrahigh surface area Metal-Organic Frameworks. <i>Microporous and Mesoporous Materials</i> , 2013 , 182, 185-190	5.3	28
26	The effect of SO ₂ on CO ₂ capture in zeolitic imidazolate frameworks. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 11856-61	3.6	51
25	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	3.8	85
24	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	2.3	207
23	Nanotechnology for Carbon Dioxide Capture 2013 , 517-559		
22	Dehydration-induced amorphous phases of calcium carbonate. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 3328-36	3.4	54
21	Synergistic interaction of paclitaxel and curcumin with cyclodextrin polymer complexation in human cancer cells. <i>Molecular Pharmaceutics</i> , 2013 , 10, 2676-83	5.6	72
20	Computer-assisted screening of ordered crystalline nanoporous adsorbents for separation of alkane isomers. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11867-71	16.4	81
19	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	9.6	62
18	Metal-organic framework materials with ultrahigh surface areas: is the sky the limit?. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15016-21	16.4	1210
17	How Well Do Metal-Organic Frameworks Tolerate Flue Gas Impurities?. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22987-22991	3.8	51
16	Two Large-Pore Metal-Organic Frameworks Derived from a Single Polytopic Strut. <i>Crystal Growth and Design</i> , 2012 , 12, 1075-1080	3.5	31
15	Screening CO ₂ /N ₂ selectivity in metal-organic frameworks using Monte Carlo simulations and ideal adsorbed solution theory. <i>Canadian Journal of Chemical Engineering</i> , 2012 , 90, 825-832	2.3	41
14	De novo synthesis of a metal-organic framework material featuring ultrahigh surface area and gas storage capacities. <i>Nature Chemistry</i> , 2010 , 2, 944-8	17.6	1350

13	Evaluation of the BET method for determining surface areas of MOFs and zeolites that contain ultra-micropores. <i>Langmuir</i> , 2010 , 26, 5475-83	4	193
12	Ultrahigh porosity in metal-organic frameworks. <i>Science</i> , 2010 , 329, 424-8	33.3	2869
11	Molecular simulation of water adsorption in silicalite: Effect of silanol groups and different cations. <i>Microporous and Mesoporous Materials</i> , 2009 , 123, 169-176	5.3	54
10	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, 18198-9	16.4	737
9	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	9.6	472
8	Computing Adsorbate/Adsorbent Binding Energies and Henry's Law Constants from Molecular Simulations. <i>Environmental Engineering Science</i> , 2009 , 26, 297-304	2	5
7	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	2	10
6	Bubble point pressure estimates from Gibbs ensemble simulations. <i>Fluid Phase Equilibria</i> , 2007 , 260, 195-198	2.5	11
5	Simulating the vapour-liquid equilibria of 1,4-dioxane. <i>Molecular Simulation</i> , 2006 , 32, 657-662	2	8
4	Molecular simulation of the adsorption of MTBE in silicalite, mordenite, and zeolite beta. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 14458-62	3.4	31
3	Scanning electron microscopic studies of porous carbon electrodes used in alkaline fuel cells. <i>Chemical Engineering Communications</i> , 2003 , 190, 976-985	2.2	1
2	Nanotechnology for Carbon Dioxide Capture 359-401		1
1	Electrically Conductive Photoluminescent Porphyrin Phosphonate Metal-Organic Frameworks. <i>Advanced Optical Materials</i> , 2200213	8.1	1