

# Orhan Talu

## List of Publications by Year in descending order

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42  
papers

2,572  
citations

236925

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docs citations

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1876  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integral Mass Balance (IMB) Method for Measuring Multicomponent Gas Adsorption Equilibria in Nanoporous Materials. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 20478-20491.	3.7	13
2	Physical Chemistry and Engineering for Adsorptive Gas Storage in Nanoporous Solids. <i>Green Energy and Technology</i> , 2019, , 65-90.	0.6	2
3	Axial dispersion effects with small diameter adsorbent particles. <i>Adsorption</i> , 2018, 24, 333-344.	3.0	13
4	Limitations of Portable Pressure Swing Adsorption Processes for Air Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 11981-11987.	3.7	17
5	Role of Pressure Drop on Rapid Pressure Swing Adsorption Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 5715-5723.	3.7	24
6	Net Adsorption of Gas/Vapor Mixtures in Microporous Solids. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13059-13071.	3.1	27
7	Measurement and Analysis of Mixture Adsorption Equilibrium in Porous Solids. <i>Chemie-Ingenieur-Technik</i> , 2011, 83, 67-82.	0.8	28
8	Net Adsorption: A Thermodynamic Framework for Supercritical Gas Adsorption and Storage in Porous Solids. <i>Langmuir</i> , 2010, 26, 17013-17023.	3.5	80
9	Effect of synthesis time and treatment on porosity of mesoporous silica materials. <i>Adsorption</i> , 2009, 15, 81-86.	3.0	2
10	Electrodeposition of nickel nanowires and nanotubes using various templates. <i>Journal of Experimental Nanoscience</i> , 2008, 3, 287-295.	2.4	24
11	Determination of Effective Diffusivities in Commercial Single Pellets:Â Effect of Water Loading. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 600-607.	3.7	8
12	Gas Permeation Through Zeolite Single Crystal Membranes. <i>Adsorption</i> , 2005, 11, 313-318.	3.0	3
13	Effect of Surface Resistances on the Diffusion of Binary Mixtures in the Silicalite Single Crystal Membrane. <i>Journal of Physical Chemistry B</i> , 2005, 109, 923-929.	2.6	19
14	Surface Resistance to Permeation through the Silicalite Single Crystal Membrane:Â Variation with Permeant. <i>Journal of Physical Chemistry B</i> , 2004, 108, 7801-7808.	2.6	35
15	Gibbs Dividing Surface and Helium Adsorption. <i>Adsorption</i> , 2003, 9, 17-28.	3.0	75
16	INFINITE DILUTION SELECTIVITY MEASUREMENTS BY GAS CHROMATOGRAPHY. , 2003, , .		1
17	The Diffusion Process of Methane through a Silicalite Single Crystal Membrane. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5163-5168.	2.6	44
18	Reference potentials for adsorption of helium, argon, methane, and krypton in high-silica zeolites. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2001, 187-188, 83-93.	4.7	103

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19	Molecular simulation of adsorption: Gibbs dividing surface and comparison with experiment. <i>AICHE Journal</i> , 2001, 47, 1160-1168.	3.6	211
20	EFFECT OF WATER LOADING ON EFFECTIVE DIFFUSIVITY IN INDUSTRIAL ADSORBENTS. , 2000, , .		1
21	Needs, status, techniques and problems with binary gas adsorption experiments. <i>Advances in Colloid and Interface Science</i> , 1998, 76-77, 227-269.	14.7	136
22	Diffusivities of n-alkanes in silicalite by steady-state single-crystal membrane technique. <i>AICHE Journal</i> , 1998, 44, 681-694.	3.6	110
23	Adsorption Equilibria of C1 to C4 Alkanes, CO <sub>2</sub> , and SF <sub>6</sub> on Silicalite. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1466-1473.	2.6	205
24	Correlation of Multicomponent Gas Adsorption by the Dual-Site Langmuir Model. Application to Nitrogen/Oxygen Adsorption on 5A-Zeolite. <i>Industrial &amp; Engineering Chemistry Research</i> , 1996, 35, 2477-2483.	3.7	145
25	Adsorption Equilibria of C <sub>5</sub> to C <sub>10</sub> Normal Alkanes in Silicalite Crystals. <i>The Journal of Physical Chemistry</i> , 1996, 100, 17276-17280.	2.9	125
26	Diffusion measurements through embedded zeolite crystals. <i>AICHE Journal</i> , 1996, 42, 3001-3007.	3.6	41
27	Measurement and analysis of oxygen/nitrogen/ 5A-zeolite adsorption equilibria for air separation. <i>Separation and Purification Technology</i> , 1996, 10, 149-159.	0.3	53
28	Behavior and performance of adsorptive natural gas storage cylinders during discharge. <i>Applied Thermal Engineering</i> , 1996, 16, 359-374.	6.0	110
29	Prediction of Adsorption of Polar and Non-Polar Gases on Silicalite by Molecular Simulation. <i>Kluwer International Series in Engineering and Computer Science</i> , 1996, , 945-952.	0.2	5
30	Activity coefficients of adsorbed mixtures. <i>Adsorption</i> , 1995, 1, 103-112.	3.0	45
31	An Overview of Adsorptive Storage of Natural Gas. <i>Studies in Surface Science and Catalysis</i> , 1993, 80, 655-662.	1.5	16
32	Structural effect on molecular simulations of tight-pore systems. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 1683.	1.7	29
33	Effect of cations on methane adsorption by NaY, MgY, CaY, SrY, and BaY zeolites. <i>The Journal of Physical Chemistry</i> , 1993, 97, 12894-12898.	2.9	74
34	Effect of Structural Heterogeneity on Multicomponent Adsorption: Benzene and p-Xylene Mixture on Silicalite. <i>Studies in Surface Science and Catalysis</i> , 1993, , 373-380.	1.5	3
35	High-pressure adsorption of methane in zeolites NaX, MgX, CaX, SrX and BaX. <i>The Journal of Physical Chemistry</i> , 1991, 95, 1722-1726.	2.9	123
36	Behavior of Aromatic Molecules in Silicalite by the Direct Integration of the Configurational Integral. <i>Molecular Simulation</i> , 1991, 8, 119-132.	2.0	21

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37	Phase transition and structural heterogeneity; Benzene adsorption on silicalite. AICHE Journal, 1989, 35, 573-578.	3.6	71
38	Heterogeneous adsorption equilibria with comparable molecule and pore sizes. The Journal of Physical Chemistry, 1989, 93, 7294-7298.	2.9	102
39	Rigorous thermodynamic treatment of gas adsorption. AICHE Journal, 1988, 34, 1887-1893.	3.6	122
40	Isosteric heat of adsorption and the vacancy solution model. AICHE Journal, 1987, 33, 510-514.	3.6	32
41	Spreading pressure dependent equation for adsorbate phase activity coefficients. Reactive Polymers, Ion Exchangers, Sorbents, 1987, 5, 81-91.	0.0	6
42	Multicomponent adsorption equilibria of nonideal mixtures. AICHE Journal, 1986, 32, 1263-1276.	3.6	251