

AyÅe Erdem-Åenatalar

List of Publications by Year in descending order

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64
papers

1,790
citations

257450

24
h-index

289244

40
g-index

65
all docs

65
docs citations

65
times ranked

1737
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of zeolite particle size on the performance of polymer-zeolite mixed matrix membranes. Journal of Membrane Science, 2000, 175, 285-288.	8.2	185
2	Crystallization and metastable phase transformations of zeolite ZSM-5 in the (TPA)2O \cdot Na2O \cdot K2O \cdot Al2O3 \cdot SiO2 \cdot H2O system. Journal of Catalysis, 1979, 60, 241-256.	6.2	117
3	A novel approach to enhance heat and mass transfer in adsorption heat pumps using the zeolite-water pair. Microporous and Mesoporous Materials, 1999, 27, 1-10.	4.4	87
4	Adsorption kinetics of zeolite coatings directly crystallized on metal supports for heat pump applications (adsorption kinetics of zeolite coatings). Applied Thermal Engineering, 2010, 30, 1409-1416.	6.0	81
5	Effects of ultrasound on zeolite A synthesis. Microporous and Mesoporous Materials, 2005, 79, 225-233.	4.4	77
6	Preparation of zeolite coatings by direct heating of the substrates. Microporous and Mesoporous Materials, 1999, 32, 331-343.	4.4	74
7	Wet ball milling of zeolite HY. Powder Technology, 2004, 142, 121-128.	4.2	62
8	Catalytic Conversion of Used Oil to Hydrocarbon Fuels in a Fractionating Pyrolysis Reactor. Energy & Fuels, 1998, 12, 1148-1152.	5.1	58
9	Effects of low-temperature gel aging on the synthesis of zeolite Y at different alkalinities. Journal of Crystal Growth, 2002, 241, 481-488.	1.5	56
10	Adsorption of Methyl Tertiary Butyl Ether on Hydrophobic Molecular Sieves. Environmental Engineering Science, 2004, 21, 722-729.	1.6	54
11	Optimization of the cycle durations of adsorption heat pumps employing zeolite coatings synthesized on metal supports. Microporous and Mesoporous Materials, 2000, 34, 23-30.	4.4	51
12	Molecular Dynamics Simulation of Water Diffusion in MFI-Type Zeolites. Journal of Physical Chemistry B, 2009, 113, 8073-8079.	2.6	51
13	The Growth of Sub-Micron Films of TPA-Silicalite-1 on Single Crystal Silicon Wafers from Low-Temperature Clear Solutions. Zeolites, 1997, 19, 21-28.	0.5	40
14	The effects of thermal and mass diffusivities on the performance of adsorption heat pumps employing zeolite synthesized on metal supports. Microporous and Mesoporous Materials, 1999, 28, 195-203.	4.4	38
15	n-Pentane/i-pentane separation by using zeolite-PDMS mixed matrix membranes. Journal of Membrane Science, 2001, 189, 59-67.	8.2	38
16	The effect of dealumination on the apparent and actual rates of aromatization of methane over MFI-supported molybdenum catalysts. Journal of Catalysis, 2004, 226, 210-214.	6.2	35
17	Effects of metal mass on the performance of adsorption heat pumps utilizing zeolite 4A coatings synthesized on heat exchanger tubes. International Journal of Refrigeration, 2000, 23, 260-268.	3.4	34
18	Esterification of oleic acid with glycerol in the presence of sulfated iron oxide catalyst. JAOCS, Journal of the American Oil Chemists' Society, 1996, 73, 347-351.	1.9	33

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19	Method to Evaluate the Fractal Dimensions of Solid Adsorbents. Journal of Physical Chemistry B, 1999, 103, 4360-4365.	2.6	33
20	Nanoparticle silicalite-1 crystallization from clear solutions: Nucleation. Microporous and Mesoporous Materials, 2009, 118, 143-151.	4.4	31
21	Microwave vs. conventional synthesis of analcime from clear solutions. Journal of Crystal Growth, 2007, 306, 146-151.	1.5	30
22	Crosslinked TS-1 as stable catalyst for the Beckmann rearrangement of cyclohexanone oxime. Microporous and Mesoporous Materials, 2009, 117, 228-232.	4.4	28
23	The effect of support morphology on the activity of HZSM-5-supported molybdenum catalysts for the aromatization of methane. Journal of Catalysis, 2007, 246, 35-39.	6.2	27
24	The relationship of the geometric factor in the Dubinin-Åstakhov isotherm equation with the fractal dimension. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 173, 51-59.	4.7	26
25	An EPR and NMR study on Mo/HZSM-5 catalysts for the aromatization of methane: Investigation of the location of the pentavalent molybdenum. Journal of Molecular Catalysis A, 2013, 378, 279-284.	4.8	25
26	When do thin zeolite layers and a large void volume in the adsorber limit the performance of adsorption heat pumps?. Microporous and Mesoporous Materials, 2002, 54, 89-96.	4.4	24
27	Adsorption of H ₂ S and SO ₂ on BigadiÅŒ Clinoptilolite. Separation Science and Technology, 1995, 30, 2747-2762.	2.5	23
28	The effects of thermal gradients in a solar adsorption heat pump utilizing the zeolite-water pair. Applied Thermal Engineering, 1999, 19, 1157-1172.	6.0	23
29	Lower temperatures for the preparation of thinner zeolite A coatings. Microporous and Mesoporous Materials, 2001, 47, 1-14.	4.4	22
30	Artificial neural network methods for the estimation of zeolite molar compositions that form from different reaction mixtures. Computers and Chemical Engineering, 2005, 30, 137-146.	3.8	21
31	Effects of ultrasound on the preparation of zeolite A coatings. Microporous and Mesoporous Materials, 2006, 88, 72-76.	4.4	19
32	THE PERFORMANCE ANALYSIS OF A SOLAR ADSORPTION HEAT PUMP UTILIZING ZEOLITE COATINGS ON METAL SUPPORTS. Chemical Engineering Communications, 2000, 180, 169-185.	2.6	15
33	Fractal dimension of zeolite surfaces by calculation. Chaos, Solitons and Fractals, 2001, 12, 1145-1155.	5.1	15
34	MTBE adsorption and diffusion in silicalite-1. Microporous and Mesoporous Materials, 2008, 115, 93-97.	4.4	15
35	Variation of particle size and its distribution during the synthesis of silicalite-1 nanocrystals. Microporous and Mesoporous Materials, 2012, 148, 43-52.	4.4	15
36	Effects of ultrasound on the synthesis of silicalite-1 nanocrystals. Ultrasonics Sonochemistry, 2012, 19, 1108-1113.	8.2	15

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37	Substrate heating method for coating metal surfaces with high-silica zeolites: ZSM-5 coatings on stainless steel plates. <i>Microporous and Mesoporous Materials</i> , 2007, 101, 374-380.	4.4	14
38	Post-synthesis treatment for improving zeolite coating stability. <i>Microporous and Mesoporous Materials</i> , 2012, 156, 262-269.	4.4	14
39	Questioning the validity of present models for estimating the performances of zeolite-polymer mixed matrix membranes. <i>Chemical Engineering Communications</i> , 2003, 190, 677-692.	2.6	13
40	Polymeric heat exchangers to increase the COP values of adsorption heat pumps utilizing zeolite coatings. <i>Applied Thermal Engineering</i> , 2004, 24, 69-78.	6.0	13
41	Estimation of the effective diffusion coefficients in open zeolite coatings. <i>Chemical Engineering Journal</i> , 2004, 102, 209-216.	12.7	13
42	In situ chemical trapping of CO/H ₂ surface species. <i>Journal of Catalysis</i> , 1988, 113, 1-12.	6.2	11
43	The effect of CaC on the activity of MFI-supported molybdenum catalysts for the aromatization of methane. <i>Journal of Catalysis</i> , 2004, 228, 114-120.	6.2	11
44	Observations on solid phase micro-extraction for MTBE analysis. <i>Chemosphere</i> , 2004, 57, 523-527.	8.2	11
45	Observations on clear solution silicalite-1 growth by nanoslabs. <i>Journal of Colloid and Interface Science</i> , 2005, 291, 396-404.	9.4	11
46	Nanoparticle silicalite-1 crystallization as monitored by nitrogen adsorption. <i>Microporous and Mesoporous Materials</i> , 2010, 131, 230-237.	4.4	10
47	Effects of Lewis acid catalysts on the esterification kinetics of castor oil with oleic acid. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1994, 71, 1035-1037.	1.9	8
48	Fractal Dimension as a Tool to Guide Zeolite Synthesis. <i>Chaos, Solitons and Fractals</i> , 1998, 9, 1803-1812.	5.1	8
49	Power-law scaling behavior of membranes. <i>Journal of Membrane Science</i> , 2001, 182, 183-193.	8.2	8
50	Estimation of the Zeolite Contents of Tuffaceous Samples from the BigadiÄŒ Clinoptilolite Deposit, Western Turkey. <i>Clays and Clay Minerals</i> , 1996, 44, 686-692.	1.3	7
51	Characterization of clinoptilolite by interaction of H ₂ S, CO, and SO ₂ by the e.s.r. technique. <i>Zeolites</i> , 1994, 14, 481-485.	0.5	6
52	Effects of fractality on the accessible surface area values of zeolite adsorbents. <i>Chaos, Solitons and Fractals</i> , 2000, 11, 953-960.	5.1	6
53	Coatings of Na-aluminosilicate zeolites prepared using predictions from an artificial neural network method. <i>Journal of Porous Materials</i> , 2008, 15, 389-395.	2.6	6
54	Extraction of Avgamasya asphaltite with sub- and supercritical solvents. <i>Fuel</i> , 1985, 64, 1748-1753.	6.4	4

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55	Dependence of the liquefaction behaviour of some high-sulphur Turkish lignites on their properties. Fuel Processing Technology, 1990, 25, 191-200.	7.2	4
56	Beckmann rearrangement on microporous and mesoporous silica. Studies in Surface Science and Catalysis, 2005, , 1255-1262.	1.5	4
57	Activities of MFI-Supported Rhenium Catalysts for the Aromatization of Methane: Effect of Cationic Form of the Inorganic Carrier. Catalysis Letters, 2007, 118, 123-128.	2.6	4
58	Ferrierite-poly(vinyl acetate) mixed matrix membranes for gas separation: A comparative study. Microporous and Mesoporous Materials, 2018, 259, 17-25.	4.4	4
59	Promising air purifications on clinoptilolite. Studies in Surface Science and Catalysis, 1995, 98, 219-220.	1.5	3
60	Estimation of the temperature effect on the adsorption capacities of zeolites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 193, 139-144.	4.7	3
61	Artificial neural network methods guiding the search of new clear solution compositions for preparing zeolite coatings. Studies in Surface Science and Catalysis, 2005, , 359-366.	1.5	3
62	Preparation of zeolite coatings by induction heating of the substrate. Journal of Sol-Gel Science and Technology, 2021, 98, 54-67.	2.4	3
63	Mechanism and kinetics of the CoCl ₂ -catalyzed esterification reaction of castor oil with oleic acid. JAOCS, Journal of the American Oil Chemists' Society, 1995, 72, 891-894.	1.9	2
64	Desorption kinetics of thick zeolite coatings prepared by induction heating for adsorption heat pump applications. Journal of Porous Materials, 0, , 1.	2.6	0