Melkon Tatlier

List of Publications by Year
in descending order

67 papers	1,459 citations	304743 22 h-index	330143 37 g-index
68 all docs	68 docs citations	68 times ranked	1420 citing authors

#	Article	IF	Citations
1	Selection of a favorable zeolite for solar adsorption cooling: How straightforward is it?. Chemical Engineering Communications, 2023, 210, 1247-1256.	2.6	2
2	Pectinâ€“Zeolite-Based Wound Dressings with Controlled Albumin Release. Polymers, 2022, 14, 460.	4.5	10
3	How may preferential heating of the substrate aid template-free preparation of EMT zeolite and its coatings?. Microporous and Mesoporous Materials, 2022, 337, 111905.	4.4	3
4	Impact of ion exchange on zeolite hydrophilicity/hydrophobicity monitored by water capacity using thermal analysis. Thermochimica Acta, 2022, 713, 179240.	2.7	5
5	Theoretical investigation of performances of zeolite Y and SAPO-34 coatings for adsorption heat pump applications. Heat and Mass Transfer, 2021, 57, 975-984.	2.1	5
6	Preparation of zeolite coatings by induction heating of the substrate. Journal of Sol-Gel Science and Technology, 2021, 98, 54-67.	2.4	3
7	Effects of structural properties of fillers on performances of MatrimidÂ® 5218 mixed matrix membranes. Separation and Purification Technology, 2020, 236, 116277.	7.9	3
8	Ion exchange of zeolite coatings for adsorption heat pump applications. Journal of Sol-Gel Science and Technology, 2019, 91, 117-126.	2.4	6
9	Lowâ€methoxyl pectinâ€“zeolite hydrogels controlling drug release promote in vitro wound healing. Journal of Applied Polymer Science, 2019, 136, 47640.	2.6	46
10	Tailoring the reaction mixture composition for preparing zeolite coatings on aluminum supports in alkaline environments. Chemical Engineering Communications, 2019, 206, 953-966.	2.6	4
11	Estimation of interphase properties of various mixed matrix membranes. Composite Interfaces, 2019, 26, 825-837.	2.3	0
12	Characterization of mixed matrix membranes by adsorption and fractal analysis. Separation Science and Technology, 2019, 54, 2323-2333.	2.5	2
13	Relation of water adsorption capacities of zeolites with their structural properties. Microporous and Mesoporous Materials, 2018, 264, 70-75.	4.4	62
14	Performances of MOF vs. zeolite coatings in adsorption cooling applications. Applied Thermal Engineering, 2017, 113, 290-297.	6.0	36
15	PREPARATION OF ZEOLITE X COATINGS ON SODA-LIME TYPE GLASS PLATES. Brazilian Journal of Chemical Engineering, 2017, 34, 203-210.	1.3	5
16	Crystallization of Zeolite A Coatings from Natural Zeolite. Materials Research, 2016, 19, 1469-1477.	1.3	5
17	Crystallization of zeolite X coatings on stainless steel by microwave heating. Journal of Porous Materials, 2015, 22, 347-352.	2.6	4
18	Effects of Using Different Polymers in Post-Synthesis Treatments of Zeolite a Coatings. Chemical Engineering Communications, 2015, 202, 375-383.	2.6	2

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19	Ternary phase diagrams of CdSO4â€“NiSO4â€“H2O at 40Â°C and 80Â°C. Fluid Phase Equilibria, 2014, 381, 67-70.	2.5	2
20	Effect of zeolite A coating thickness on adsorption kinetics for heat pump applications. Microporous and Mesoporous Materials, 2014, 193, 115-121.	4.4	30
21	Adsorption kinetics and isotherms of zeolite coatings directly crystallized on fibrous plates for heat pump applications. Applied Thermal Engineering, 2013, 58, 273-280.	6.0	27
22	Post-synthesis treatment for improving zeolite coating stability. Microporous and Mesoporous Materials, 2012, 156, 262-269.	4.4	14
23	Artificial neural network methods for the prediction of framework crystal structures of zeolites from XRD data. Neural Computing and Applications, 2011, 20, 365-371.	5.6	20
24	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
25	Preparation of zeolite a coatings on copper plates by using the substrate heating method. Brazilian Journal of Chemical Engineering, 2010, 27, 619-626.	1.3	3
26	Investigation of the Use of an Artificial Neural Network Method for the Prediction of Crystal Structures of Zeolites from XRD Data. , 2009, , .		0
27	Coatings of Na-aluminosilicate zeolites prepared using predictions from an artificial neural network method. Journal of Porous Materials, 2008, 15, 389-395.	2.6	6
28	How fractal is dancing?. Chaos, Solitons and Fractals, 2008, 36, 1019-1027.	5.1	3
29	ELECTROCHEMICAL PROPERTIES OF GEL-TYPE ZEOLITE SYNTHESIS MIXTURES. Chemical Engineering Communications, 2008, 195, 661-673.	2.6	1
30	Substrate heating method for coating metal surfaces with high-silica zeolites: ZSM-5 coatings on stainless steel plates. Microporous and Mesoporous Materials, 2007, 101, 374-380.	4.4	14
31	Microwave vs. conventional synthesis of analcime from clear solutions. Journal of Crystal Growth, 2007, 306, 146-151.	1.5	30
32	InÂvitro evaluation of the use of zeolites as biomaterials: effects on simulated body fluid and two types of cells. Journal of Materials Science: Materials in Medicine, 2007, 18, 1557-1562.	3.6	17
33	Effects of ultrasound on the preparation of zeolite A coatings. Microporous and Mesoporous Materials, 2006, 88, 72-76.	4.4	19
34	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
35	Effects of ultrasound on zeolite A synthesis. Microporous and Mesoporous Materials, 2005, 79, 225-233.	4.4	77
36	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

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37	Electrochemical monitoring of zeolite synthesis. Materials Chemistry and Physics, 2005, 91, 99-103.	4.0	4
38	Catalytic activity of FeZSM-5 zeolites in benzene hydroxylation by N2O: The role of geometry characterized by fractal dimensions. Catalysis Communications, 2005, 6, 731-736.	3.3	7
39	Wet ball milling of zeolite HY. Powder Technology, 2004, 142, 121-128.	4.2	62
40	Polymeric heat exchangers to increase the COP values of adsorption heat pumps utilizing zeolite coatings. Applied Thermal Engineering, 2004, 24, 69-78.	6.0	13
41	Estimation of the effective diffusion coefficients in open zeolite coatings. Chemical Engineering Journal, 2004, 102, 209-216.	12.7	13
42	Simulation of the formation of thin zeolite coatings by direct synthesis from clear solutions. Studies in Surface Science and Catalysis, 2004, , 606-611.	1.5	0
43	Searching for clear solution compositions by using the substrate heating method. Studies in Surface Science and Catalysis, 2004, 154, 667-670.	1.5	2
44	Questioning the validity of present models for estimating the performances of zeolite-polymer mixed matrix membranes. Chemical Engineering Communications, 2003, 190, 677-692.	2.6	13
45	FRACTAL GROWTH OF ZEOLITE COATINGS PREPARED BY THE SUBSTRATE HEATING METHOD. Fractals, 2003, 11, 77-85.	3.7	7
46	Inorganic adsorbates classified by fractal analysis. Separation and Purification Technology, 2002, 29, 265-270.	7.9	2
47	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
48	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
49	Power-law scaling behavior of membranes. Journal of Membrane Science, 2001, 182, 183-193.	8.2	8
50	n-Pentane/i-pentane separation by using zeoliteâ€“PDMS mixed matrix membranes. Journal of Membrane Science, 2001, 189, 59-67.	8.2	38
51	Fractal dimension of zeolite surfaces by calculation. Chaos, Solitons and Fractals, 2001, 12, 1145-1155.	5.1	15
52	Lower temperatures for the preparation of thinner zeolite A coatings. Microporous and Mesoporous Materials, 2001, 47, 1-14.	4.4	22
53	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
54	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

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55	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
56	The relationship of the geometric factor in the Dubininâ€“Astakhov isotherm equation with the fractal dimension. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 173, 51-59.	4.7	26
57	Effects of fractality on the accessible surface area values of zeolite adsorbents. Chaos, Solitons and Fractals, 2000, 11, 953-960.	5.1	6
58	Effect of zeolite particle size on the performance of polymerâ€“zeolite mixed matrix membranes. Journal of Membrane Science, 2000, 175, 285-288.	8.2	185
59	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
60	The stability of zeolite coatings grown on metal supports for heat pump applications. Studies in Surface Science and Catalysis, 1999, , 101-108.	1.5	11
61	The effects of thermal gradients in a solar adsorption heat pump utilizing the zeoliteâ€“water pair. Applied Thermal Engineering, 1999, 19, 1157-1172.	6.0	23
62	A novel approach to enhance heat and mass transfer in adsorption heat pumps using the zeoliteâ€“water pair. Microporous and Mesoporous Materials, 1999, 27, 1-10.	4.4	87
63	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
64	Preparation of zeolite coatings by direct heating of the substrates. Microporous and Mesoporous Materials, 1999, 32, 331-343.	4.4	74
65	Method to Evaluate the Fractal Dimensions of Solid Adsorbents. Journal of Physical Chemistry B, 1999, 103, 4360-4365.	2.6	33
66	Fractal Dimension as a Tool to Guide Zeolite Synthesis. Chaos, Solitons and Fractals, 1998, 9, 1803-1812.	5.1	8
67	Desorption kinetics of thick zeolite coatings prepared by induction heating for adsorption heat pump applications. Journal of Porous Materials, 0, , 1.	2.6	0