

# Michael Tsapatsis

## List of Publications by Year in descending order

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245  
papers

17,053  
citations

13068

68  
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16605

123  
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259  
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259  
docs citations

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times ranked

11709  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Reactivity of Accessible Protons in Sodalite Cages of Faujasite Zeolite. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	8
2	Enhanced Reactivity of Accessible Protons in Sodalite Cages of Faujasite Zeolite. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	4
3	Solvent-free bottom-up patterning of zeolitic imidazolate frameworks. <i>Nature Communications</i> , 2022, 13, 420.	5.8	20
4	A Localized Enantioselective Catalytic Site on Short DNA Sequences and Their Amphiphiles. <i>Jacs Au</i> , 2022, 2, 483-491.	3.6	3
5	Twin-free, directly synthesized MFI nanosheets with improved thickness uniformity and their use in membrane fabrication. <i>Science Advances</i> , 2022, 8, eabm8162.	4.7	30
6	<i>In Situ</i> Tracking of Nonthermal Plasma Etching of ZIF-8 Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 19023-19030.	4.0	7
7	Zeolitic Imidazolate Framework Membranes: Novel Synthesis Methods and Progress Toward Industrial Use. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2022, 13, 529-555.	3.3	14
8	Acid Catalysis over Low-Silica Faujasite Zeolites. <i>Journal of the American Chemical Society</i> , 2022, 144, 9324-9329.	6.6	10
9	Molecular Simulations Probing the Adsorption and Diffusion of Ammonia, Nitrogen, Hydrogen, and Their Mixtures in Bulk MFI Zeolite and MFI Nanosheets at High Temperature and Pressure. <i>Journal of Chemical &amp; Engineering Data</i> , 2022, 67, 1779-1791.	1.0	4
10	Supramolecular Assembly of Single-Tail ssDNA-Amphiphiles through $\pi$ - $\pi$ Interactions. <i>Bioconjugate Chemistry</i> , 2022, 33, 2035-2040.	1.8	1
11	Facile synthesis of bifunctional Sn <sup>IV</sup> -self-pillared MFI zeolite nanosheets as highly selective catalyst for sucrose conversion to fructose. <i>Microporous and Mesoporous Materials</i> , 2022, 341, 112068.	2.2	1
12	Fabrication of b-oriented MFI membranes from MFI nanosheet layers by ammonium sulfate modifier for the separation of butane isomers. <i>Journal of Membrane Science</i> , 2022, 658, 120749.	4.1	11
13	Adsorption of furan, hexanoic acid, and alkanes in a hierarchical zeolite at reaction conditions: Insights from molecular simulations. <i>Journal of Computational Science</i> , 2021, 48, 101267.	1.5	4
14	Electron beam induced modification of ZIF-8 membrane permeation properties. <i>Chemical Communications</i> , 2021, 57, 5250-5253.	2.2	12
15	P-Site Structural Diversity and Evolution in a Zeosil Catalyst. <i>Journal of the American Chemical Society</i> , 2021, 143, 1968-1983.	6.6	17
16	Electron Beam Patterning of Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2021, 33, 754-760.	3.2	17
17	High-performance ammonia-selective MFI nanosheet membranes. <i>Chemical Communications</i> , 2021, 57, 580-582.	2.2	20
18	Mathematical modeling and parameter estimation of MFI membranes for para/ortho-xylene separation. <i>AIChE Journal</i> , 2021, 67, e17232.	1.8	6

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19	ZIF-8 Membrane Permselectivity Modification by Manganese(II) Acetylacetonate Vapor Treatment. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9316-9320.	7.2	36
20	ZIF-8 Membrane Permselectivity Modification by Manganese(II) Acetylacetonate Vapor Treatment. <i>Angewandte Chemie</i> , 2021, 133, 9402-9406.	1.6	7
21	Numerical simulation of atomic layer deposition for thin deposit formation in a mesoporous substrate. <i>AICHE Journal</i> , 2021, 67, e17305.	1.8	9
22	Enhanced Nitrogen Removal and Anammox Bacteria Retention with Zeolite-Coated Membrane in Simulated Mainstream Wastewater. <i>Environmental Science and Technology Letters</i> , 2021, 8, 468-473.	3.9	11
23	Two Distinct Stages of Structural Modification of ZIF-L MOF under Electron-Beam Irradiation. <i>Chemistry of Materials</i> , 2021, 33, 5681-5689.	3.2	16
24	Acid Sites of Phosphorus-Modified Zeolites. <i>ACS Catalysis</i> , 2021, 11, 9933-9948.	5.5	9
25	Few-Unit-Cell MFI Zeolite Synthesized using a Simple Di-quaternary Ammonium Structure as Directing Agent. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19214-19221.	7.2	19
26	Few-Unit-Cell MFI Zeolite Synthesized using a Simple Di-quaternary Ammonium Structure as Directing Agent. <i>Angewandte Chemie</i> , 2021, 133, 19363-19370.	1.6	8
27	Regenerable Sorbent Pellets for the Removal of Dilute H <sub>2</sub> S from Claus Process Tail Gas. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 18443-18451.	1.8	8
28	Vapor and liquid phase adsorption of alcohol and water in silicalite-1 synthesized in fluoride media. <i>AICHE Journal</i> , 2020, 66, e16868.	1.8	12
29	Catalysis-in-a-Box: Robotic Screening of Catalytic Materials in the Time of COVID-19 and Beyond. <i>Matter</i> , 2020, 3, 805-823.	5.0	13
30	Finned zeolite catalysts. <i>Nature Materials</i> , 2020, 19, 1074-1080.	13.3	116
31	Multi-modal surface analysis of porous films under <i>operando</i> conditions. <i>AIP Advances</i> , 2020, 10, .	0.6	19
32	Assembly of Graphene Oxide Nanosheets on Diamine-Treated PVDF Hollow Fiber as Nanofiltration Membranes. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3859-3866.	2.0	16
33	Fabrication of a sandwiched silicalite-1 membrane in a 2D confined space for enhanced alcohol/water separation. <i>Chemical Communications</i> , 2020, 56, 12586-12588.	2.2	12
34	The Catalytic Mechanics of Dynamic Surfaces: Stimulating Methods for Promoting Catalytic Resonance. <i>ACS Catalysis</i> , 2020, 10, 12666-12695.	5.5	54
35	Reversible Formation of Silanol Groups in Two-Dimensional Siliceous Nanomaterials under Mild Hydrothermal Conditions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18045-18053.	1.5	7
36	Zeolite Nanosheets Stabilize Catalyst Particles to Promote the Growth of Thermodynamically Unfavorable, Small-Diameter Carbon Nanotubes. <i>Small</i> , 2020, 16, e2002120.	5.2	7

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37	Role of Silica Support in Phosphoric Acid Catalyzed Production of <i>p</i> -Xylene from 2,5-Dimethylfuran and Ethylene. Industrial & Engineering Chemistry Research, 2020, 59, 22049-22056.	1.8	14
38	Modeling and simulation of gas separations with spiral-wound membranes. AIChE Journal, 2020, 66, e16274.	1.8	4
39	Phosphonate-Modified UiO-66 Brønsted Acid Catalyst and Its Use in Dehydro-Decyclization of 2-Methyltetrahydrofuran to Pentadienes. Angewandte Chemie - International Edition, 2020, 59, 13260-13266.	7.2	21
40	Phosphonate-Modified UiO-66 Brønsted Acid Catalyst and Its Use in Dehydro-Decyclization of 2-Methyltetrahydrofuran to Pentadienes. Angewandte Chemie, 2020, 132, 13362-13368.	1.6	4
41	One-dimensional intergrowths in two-dimensional zeolite nanosheets and their effect on ultra-selective transport. Nature Materials, 2020, 19, 443-449.	13.3	91
42	Steam-Induced Coarsening of Single-Unit-Cell MFI Zeolite Nanosheets and Its Effect on External Surface Brønsted Acid Catalysis. Angewandte Chemie, 2020, 132, 9666-9672.	1.6	5
43	Steam-Induced Coarsening of Single-Unit-Cell MFI Zeolite Nanosheets and Its Effect on External Surface Brønsted Acid Catalysis. Angewandte Chemie - International Edition, 2020, 59, 9579-9585.	7.2	26
44	On the Economics and Process Design of Renewable Butadiene from Biomass-Derived Furfural. ACS Sustainable Chemistry and Engineering, 2020, 8, 3273-3282.	3.2	22
45	Three-Dimensionally Ordered Macroporous Mixed Metal Oxide as an Indicator for Monitoring the Stability of ZIF-8. Chemistry of Materials, 2020, 32, 3850-3859.	3.2	15
46	Dehydro-decyclization of 2-methyltetrahydrofuran to pentadienes on boron-containing zeolites. Green Chemistry, 2020, 22, 4147-4160.	4.6	22
47	Diffusive Formation of Hollow Mesoporous Silica Shells from Core-Shell Composites: Insights from the Hydrogen Sulfide Capture Cycle of CuO@mSiO <sub>2</sub> Nanoparticles. Langmuir, 2020, 36, 6540-6549.	1.6	6
48	Environmental TEM Studies Reveal Catalyst/Support Registry on 2D Zeolites. Microscopy and Microanalysis, 2019, 25, 1458-1459.	0.2	1
49	Frontispiece: ZIF-8 Membrane Separation Performance Tuning by Vapor Phase Ligand Treatment. Angewandte Chemie - International Edition, 2019, 58, .	7.2	1
50	ZIF-8 Membrane Separation Performance Tuning by Vapor Phase Ligand Treatment. Angewandte Chemie, 2019, 131, 16542-16546.	1.6	26
51	ZIF-8 Membrane Separation Performance Tuning by Vapor Phase Ligand Treatment. Angewandte Chemie - International Edition, 2019, 58, 16390-16394.	7.2	54
52	Electron-Beam-Damage in Metal Organic Frameworks in the TEM. Microscopy and Microanalysis, 2019, 25, 1704-1705.	0.2	10
53	ssDNA-amphiphile architecture used to control dimensions of DNA nanotubes. Nanoscale, 2019, 11, 19850-19861.	2.8	8
54	Dehydro-Decyclization of Tetrahydrofuran on H-ZSM5: Mechanisms, Pathways, and Transition State Entropy. ACS Catalysis, 2019, 9, 10279-10293.	5.5	27

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55	Frontispiz: ZIF-8 Membrane Separation Performance Tuning by Vapor Phase Ligand Treatment. <i>Angewandte Chemie</i> , 2019, 131, .	1.6	0
56	Glucose isomerization in dioxane/water with Sn <sup>IV</sup> catalyst: improved catalyst stability and use for HMF production. <i>Chemical Communications</i> , 2019, 55, 14942-14945.	2.2	31
57	A quantitative study of the structure-activity relationship in hierarchical zeolites using liquid-phase reactions. <i>AIChE Journal</i> , 2019, 65, 1067-1075.	1.8	29
58	A Chromium Hydroxide/MIL-101(Cr) MOF Composite Catalyst and Its Use for the Selective Isomerization of Glucose to Fructose. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4926-4930.	7.2	73
59	A Chromium Hydroxide/MIL-101(Cr) MOF Composite Catalyst and Its Use for the Selective Isomerization of Glucose to Fructose. <i>Angewandte Chemie</i> , 2018, 130, 5020-5024.	1.6	30
60	C2 adsorption in zeolites: <i>in silico</i> screening and sensitivity to molecular models. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 619-626.	1.7	11
61	Reactions in Confined Spaces. <i>ChemPhysChem</i> , 2018, 19, 339-340.	1.0	11
62	Titelbild: <i>p</i> -Xylene Ultra-selective Zeolite MFI Membranes Fabricated from Nanosheet Monolayers at the Air-Water Interface ( <i>Angew. Chem.</i> 2/2018). <i>Angewandte Chemie</i> , 2018, 130, 367-367.	1.6	0
63	Large-Grain, Oriented, and Thin Zeolite MFI Films from Directly Synthesized Nanosheet Coatings. <i>Chemistry of Materials</i> , 2018, 30, 3545-3551.	3.2	29
64	Preparation of a graphene oxide/faujasite composite adsorbent. <i>Microporous and Mesoporous Materials</i> , 2018, 268, 243-250.	2.2	21
65	Selective Glucose-to-Fructose Isomerization over Modified Zirconium UiO-66 in Alcohol Media. <i>ChemCatChem</i> , 2018, 10, 2417-2423.	1.8	39
66	<i>p</i> -Xylene Ultra-selective Zeolite MFI Membranes Fabricated from Nanosheet Monolayers at the Air-Water Interface. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 480-485.	7.2	130
67	Direct Synthesis of 7 nm-Thick Zinc(II)-Benzimidazole-Acetate Metal-Organic Framework Nanosheets. <i>Chemistry of Materials</i> , 2018, 30, 69-73.	3.2	40
68	<i>p</i> -Xylene Ultra-selective Zeolite MFI Membranes Fabricated from Nanosheet Monolayers at the Air-Water Interface. <i>Angewandte Chemie</i> , 2018, 130, 489-494.	1.6	42
69	Understanding the Reactive Adsorption of H <sub>2</sub> S and CO <sub>2</sub> in Sodium-Exchanged Zeolites. <i>ChemPhysChem</i> , 2018, 19, 512-518.	1.0	12
70	Sulfidation-Oxidation Cycling of a H <sub>2</sub> S Adsorbing Hollow Sphere Array. <i>Microscopy and Microanalysis</i> , 2018, 24, 1800-1801.	0.2	0
71	Environmental Evaluation of the Improvements for Industrial Scaling of Zeolite Membrane Manufacturing by Life Cycle Assessment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15773-15780.	3.2	15
72	Controlling Dissolution and Transformation of Zeolitic Imidazolate Frameworks by using Electron-Beam-Induced Amorphization. <i>Angewandte Chemie</i> , 2018, 130, 13780-13785.	1.6	6

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73	Direct Synthesis and Pseudomorphic Transformation of Mixed Metal Oxide Nanostructures with Non-close-packed Hollow Sphere Arrays. <i>Angewandte Chemie</i> , 2018, 130, 15933-15937.	1.6	3
74	Direct Synthesis and Pseudomorphic Transformation of Mixed Metal Oxide Nanostructures with Non-close-packed Hollow Sphere Arrays. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15707-15711.	7.2	7
75	Zeolitic imidazolate framework membranes made by ligand-induced permselectivation. <i>Science</i> , 2018, 361, 1008-1011.	6.0	324
76	Controlling Dissolution and Transformation of Zeolitic Imidazolate Frameworks by using Electron-beam-Induced Amorphization. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13592-13597.	7.2	57
77	On the direct synthesis of Cu(BDC) MOF nanosheets and their performance in mixed matrix membranes. <i>Journal of Membrane Science</i> , 2018, 549, 312-320.	4.1	116
78	Understanding the unique sorption of alkane- $\pm$ , $\alpha$ -diols in silicalite-1. <i>Journal of Chemical Physics</i> , 2018, 149, 072331.	1.2	8
79	First principles Monte Carlo simulations of unary and binary adsorption: $\text{CO}_2$ , $\text{N}_2$ , and $\text{H}_2\text{O}$ in Mg-MOF-74. <i>Chemical Communications</i> , 2018, 54, 10816-10819.	2.2	31
80	Cooperative Catalysis by Surface Lewis Acid/Silanol for Selective Fructose Etherification on Sn-SPP Zeolite. <i>ACS Catalysis</i> , 2018, 8, 9056-9065.	5.5	17
81	Renewable Isoprene by Sequential Hydrogenation of Itaconic Acid and Dehydro-Decyclization of 3-Methyl-Tetrahydrofuran. <i>ACS Catalysis</i> , 2017, 7, 1428-1431.	5.5	72
82	Titelbild: Nanoscale Control of Homoepitaxial Growth on a Two-Dimensional Zeolite ( <i>Angew. Chem.</i> )	1.6	0
83	Sub-micrometer Zeolite Films on Gold-Coated Silicon Wafers with Single-Crystal-Like Dielectric Constant and Elastic Modulus. <i>Advanced Functional Materials</i> , 2017, 27, 1700864.	7.8	11
84	Transferable potentials for phase equilibria. Improved united-atom description of ethane and ethylene. <i>AIChE Journal</i> , 2017, 63, 5098-5110.	1.8	28
85	Biomass-Derived Butadiene by Dehydro-Decyclization of Tetrahydrofuran. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 3732-3736.	3.2	84
86	Ultra-selective high-flux membranes from directly synthesized zeolite nanosheets. <i>Nature</i> , 2017, 543, 690-694.	13.7	446
87	A Review of Biorefinery Separations for Bioproduct Production via Thermocatalytic Processing. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2017, 8, 115-137.	3.3	24
88	Nanoscale Control of Homoepitaxial Growth on a Two-Dimensional Zeolite. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 535-539.	7.2	50
89	Nanoscale Control of Homoepitaxial Growth on a Two-Dimensional Zeolite. <i>Angewandte Chemie</i> , 2017, 129, 550-554.	1.6	15
90	Epitaxial growth: rapid synthesis of highly permeable and selective zeolite-T membranes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17828-17832.	5.2	17

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91	Characterization of MEL defects in 2 - Dimensional MFI nanosheets. <i>Microscopy and Microanalysis</i> , 2017, 23, 1802-1803.	0.2	1
92	Simple quantification of zeolite acid site density by reactive gas chromatography. <i>Catalysis Science and Technology</i> , 2017, 7, 3831-3841.	2.1	51
93	Early Growth Stages of Directly Synthesized Large-Area Zeolite Nanosheets. <i>Microscopy and Microanalysis</i> , 2017, 23, 1986-1987.	0.2	0
94	Bioethanol enrichment using zeolite membranes: Molecular modeling, conceptual process design and techno-economic analysis. <i>Journal of Membrane Science</i> , 2017, 540, 464-476.	4.1	18
95	Hydrogen Sulfide Capture: From Absorption in Polar Liquids to Oxide, Zeolite, and Metal-Organic Framework Adsorbents and Membranes. <i>Chemical Reviews</i> , 2017, 117, 9755-9803.	23.0	434
96	Studying two-dimensional zeolites with the tools of surface science: MFI nanosheets on Au(111). <i>Catalysis Today</i> , 2017, 280, 283-288.	2.2	11
97	Renewable <i>p</i> -Xylene from 2,5-Dimethylfuran and Ethylene Using Phosphorus-Containing Zeolite Catalysts. <i>ChemCatChem</i> , 2017, 9, 398-402.	1.8	118
98	Modeling, optimization, and cost analysis of an IGCC plant with a membrane reactor for carbon capture. <i>AIChE Journal</i> , 2016, 62, 1568-1580.	1.8	20
99	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports ( <i>Angew. Chem.</i> 25/2016). <i>Angewandte Chemie</i> , 2016, 128, 7123-7123.	1.6	0
100	Identifying Optimal Zeolitic Sorbents for Sweetening of Highly Sour Natural Gas. <i>Angewandte Chemie</i> , 2016, 128, .	1.6	0
101	Pillared Sn-MWW Prepared by a Solid-State-Exchange Method and its Use as a Lewis Acid Catalyst. <i>ChemCatChem</i> , 2016, 8, 1274-1278.	1.8	40
102	Identifying Optimal Zeolitic Sorbents for Sweetening of Highly Sour Natural Gas. <i>Angewandte Chemie</i> , 2016, 128, 6042-6046.	1.6	9
103	A mathematical model for zeolite membrane module performance and its use for techno-economic evaluation of improved energy efficiency hybrid membrane-distillation processes for butane isomer separations. <i>Journal of Membrane Science</i> , 2016, 520, 434-449.	4.1	30
104	Identifying Optimal Zeolitic Sorbents for Sweetening of Highly Sour Natural Gas. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5938-5942.	7.2	41
105	Atomic Structure of Self-Pillared, Single-Unit-Cell Sn-MFI Zeolite Nanosheets. <i>Microscopy and Microanalysis</i> , 2016, 22, 1616-1617.	0.2	0
106	Observation of MEL stacking faults in two-dimensional MFI zeolite nanosheets. <i>Microscopy and Microanalysis</i> , 2016, 22, 1634-1635.	0.2	0
107	Hierarchical materials: Background and perspectives. <i>MRS Bulletin</i> , 2016, 41, 661-664.	1.7	18
108	Oxidation and Reduction under Cover: Chemistry at the Confined Space between Ultrathin Nanoporous Silicates and Ru(0001). <i>Journal of Physical Chemistry C</i> , 2016, 120, 8240-8245.	1.5	44

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109	Nucleation of open framework materials: Navigating the voids. MRS Bulletin, 2016, 41, 393-398.	1.7	42
110	Understanding Diffusion in Hierarchical Zeolites with House-of-Cards Nanosheets. ACS Nano, 2016, 10, 7612-7618.	7.3	56
111	Factors Governing the Formation of Hierarchically and Sequentially Intergrown MFI Zeolites by Using Simple Diquaternary Ammonium Structure-Directing Agents. Chemistry of Materials, 2016, 28, 8997-9007.	3.2	41
112	Interplay between hydrophilicity and surface barriers on water transport in zeolite membranes. Nature Communications, 2016, 7, 12762.	5.8	80
113	Tunable Oleo-Furan Surfactants by Acylation of Renewable Furans. ACS Central Science, 2016, 2, 820-824.	5.3	64
114	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports. Angewandte Chemie - International Edition, 2016, 55, 7184-7187.	7.2	100
115	Frontispiece: Identifying Optimal Zeolitic Sorbents for Sweetening of Highly Sour Natural Gas. Angewandte Chemie - International Edition, 2016, 55, .	7.2	0
116	Combining Pre- and Post-Nucleation Trajectories for the Synthesis of High FAU-Content Faujasite Nanocrystals from Organic-Free Sols. Chemistry of Materials, 2016, 28, 4204-4213.	3.2	30
117	Open-Pore Two-Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbon-Selective Membranes on Porous Polymer Supports. Angewandte Chemie, 2016, 128, 7300-7303.	1.6	9
118	Ethanol/water mixture pervaporation performance of oriented silicalite-1 membranes made by gel-free secondary growth. AIChE Journal, 2016, 62, 556-563.	1.8	55
119	Adsorptive Separation of 1-Butanol from Aqueous Solutions Using MFI- and FER-Type Zeolite Frameworks: A Monte Carlo Study. Langmuir, 2016, 32, 2093-2101.	1.6	28
120	Thermal Stabilization of Metal-Organic Framework-Derived Single-Site Catalytic Clusters through Nanocasting. Journal of the American Chemical Society, 2016, 138, 2739-2748.	6.6	83
121	Zeolite Membranes: Oriented MFI Membranes by Gel-Less Secondary Growth of Sub-100 nm MFI-Nanosheet Seed Layers (Adv. Mater. 21/2015). Advanced Materials, 2015, 27, 3339-3339.	11.1	0
122	Analytical Method for Thickness and Wrinkling Measurements of 2-D Zeolites. Microscopy and Microanalysis, 2015, 21, 2367-2368.	0.2	0
123	Oriented MFI Membranes by Gel-Less Secondary Growth of Sub-100 nm MFI-Nanosheet Seed Layers. Advanced Materials, 2015, 27, 3243-3249.	11.1	182
124	Self-Pillared, Single-Unit-Cell MFI Zeolite Nanosheets and Their Use for Glucose and Lactose Isomerization. Angewandte Chemie - International Edition, 2015, 54, 10848-10851.	7.2	138
125	Structural Rearrangement of 2-D Zeolite Nanosheets under Electron Beam. Microscopy and Microanalysis, 2015, 21, 1323-1324.	0.2	1
126	Quantification of thickness and wrinkling of exfoliated two-dimensional zeolite nanosheets. Nature Communications, 2015, 6, 7128.	5.8	39



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127	Economic assessment of Temperature Swing Adsorption systems as Claus Tail Gas Clean Up Units. <i>Chemical Engineering Science</i> , 2015, 126, 186-195.	1.9	19
128	Discovery of optimal zeolites for challenging separations and chemical transformations using predictive materials modeling. <i>Nature Communications</i> , 2015, 6, 5912.	5.8	94
129	Development of the Transferable Potentials for Phase Equilibria Model for Hydrogen Sulfide. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7041-7052.	1.2	59
130	Nucleation, Growth, and Robust Synthesis of SPP Zeolite: Effect of Ethanol, Sodium, and Potassium. <i>Topics in Catalysis</i> , 2015, 58, 545-558.	1.3	15
131	Activation of giant silicalite-1 monocrystals combining rapid thermal processing and ozone calcination. <i>RSC Advances</i> , 2015, 5, 18035-18040.	1.7	7
132	2D Zeolite Coatings: Langmuir-Schaefer Deposition of 3-nm Thick MFI Zeolite Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 6571-6575.	7.2	67
133	Monte Carlo Simulations Probing the Adsorptive Separation of Hydrogen Sulfide/Methane Mixtures Using All-Silica Zeolites. <i>Langmuir</i> , 2015, 31, 12268-12278.	1.6	37
134	Zeolites: On the Synthesis and Adsorption Properties of Single-Unit-Cell Hierarchical Zeolites Made by Rotational Intergrowths ( <i>Adv. Funct. Mater.</i> 2/2014). <i>Advanced Functional Materials</i> , 2014, 24, 200-200.	7.8	2
135	On the Synthesis and Adsorption Properties of Single-Unit-Cell Hierarchical Zeolites Made by Rotational Intergrowths. <i>Advanced Functional Materials</i> , 2014, 24, 201-208.	7.8	101
136	Concentration effects on the selective extraction of ethanol from aqueous solution using silicalite-1 and decanol isomers. <i>Fluid Phase Equilibria</i> , 2014, 362, 118-124.	1.4	7
137	2-dimensional zeolites. <i>AIChE Journal</i> , 2014, 60, 2374-2381.	1.8	101
138	A high-performance adsorbent for hydrogen sulfide removal. <i>Microporous and Mesoporous Materials</i> , 2014, 190, 152-155.	2.2	63
139	Understanding the Unusual Adsorption Behavior in Hierarchical Zeolite Nanosheets. <i>ChemPhysChem</i> , 2014, 15, 2225-2229.	1.0	22
140	Elucidating structure-properties relations for the design of highly selective carbon-based HMF sorbents. <i>Microporous and Mesoporous Materials</i> , 2014, 184, 72-82.	2.2	29
141	Challenges of and Insights into Acid-Catalyzed Transformations of Sugars. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22815-22833.	1.5	88
142	Maintenance of ischemic $\hat{I}^2$ cell viability through delivery of lipids and ATP by targeted liposomes. <i>Biomaterials Science</i> , 2014, 2, 548.	2.6	15
143	On the Rotational Intergrowth of Hierarchical FAU/EMT Zeolites. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9456-9461.	7.2	90
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