# Michael Tsapatsis

List of Publications by Year
in descending order



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|---|---|---|---|
| 245 papers | 17,053 citations | 13099 68 h-index | 16650 123 g-index |
| 259 all docs | 259 docs citations | 259 times ranked | 11709 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Merocyanine 540 as an optical probe of transmembrane electrical activity in the heart. Science, 2003, 191, 485-487. | 12.6 | 987 |
| 2 | Synthesis of Self-Pillared Zeolite Nanosheets by Repetitive Branching. Science, 2012, 336, 1684-1687. | 12.6 | 655 |
| 3 | Dispersible Exfoliated Zeolite Nanosheets and Their Application as a Selective Membrane. Science, 2011, 334, 72-75. | 12.6 | 601 |
| 4 | Hierarchical nanofabricationÂofÂmicroporous crystals with ordered mesoporosity. Nature Materials, 2008, 7, 984-991. | 27.5 | 553 |
| 5 | A titanosilicate molecular sieve with adjustable pores for size-selective adsorption of molecules. Nature, 2001, 412, 720-724. | 27.8 | 546 |
| 6 | Ultra-selective high-flux membranes from directly synthesized zeolite nanosheets. Nature, 2017, 543, 690-694. | 27.8 | 446 |
| 7 | Hydrogen Sulfide Capture: From Absorption in Polar Liquids to Oxide, Zeolite, and Metalâ€“Organic Framework Adsorbents and Membranes. Chemical Reviews, 2017, 117, 9755-9803. | 47.7 | 434 |
| 8 | Mechanistic principles of nanoparticle evolution to zeolite crystals. Nature Materials, 2006, 5, 400-408. | 27.5 | 416 |
| 9 | Microporous Metal Organic Framework Membrane on Porous Support Using the Seeded Growth Method. Chemistry of Materials, 2009, 21, 4920-4924. | 6.7 | 340 |
| 10 | Zeolitic imidazolate framework membranes made by ligand-induced permselectivation. Science, 2018, 361, 1008-1011. | 12.6 | 324 |
| 11 | Hierarchical Nanomanufacturing: From Shaped Zeolite Nanoparticles to Highâ€Performance Separation Membranes. Angewandte Chemie - International Edition, 2007, 46, 7560-7573. | 13.8 | 323 |
| 12 | Grain Boundary Defect Elimination in a Zeolite Membrane by Rapid Thermal Processing. Science, 2009, 325, 590-593. | 12.6 | 289 |
| 13 | Hydrothermal Synthesis of Zeolites with Three-Dimensionally Ordered Mesoporous-Imprinted Structure. Journal of the American Chemical Society, 2011, 133, 12390-12393. | 13.7 | 266 |
| 14 | Preferentially oriented submicron silicalite membranes. AICHE Journal, 1996, 42, 3020-3029. | 3.6 | 244 |
| 15 | Layer Structure Preservation during Swelling, Pillaring, and Exfoliation of a Zeolite Precursor. Journal of the American Chemical Society, 2008, 130, 1507-1516. | 13.7 | 240 |
| 16 | Separation of Xylene Isomer Vapors with Oriented MFI Membranes Made by Seeded Growth. Industrial & Engineering Chemistry Research, 2001, 40, 544-552. | 3.7 | 227 |
| 17 | Synthesis and characterization of oriented MFI membranes prepared by secondary growth. AICHE Journal, 1998, 44, 1903-1913. | 3.6 | 212 |
| 18 | On the Preferred Orientation and Microstructural Manipulation of Molecular Sieve Films Prepared by Secondary Growth. Chemistry of Materials, 1998, 10, 2497-2504. | 6.7 | 207 |

| # | Article | IF | Citations |
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| 19 | Oriented MFI Membranes by Gelâ€Less Secondary Growth of Subâ€100 nm MFIâ€Nanosheet Seed Layers. Advanced Materials, 2015, 27, 3243-3249. | 21.0 | 182 |
| 20 | Transport properties of alumina-supported MFI membranes made by secondary (seeded) growth. Microporous and Mesoporous Materials, 2000, 38, 61-73. | 4.4 | 173 |
| 21 | One-Pot Synthesis of 5-(Ethoxymethyl)furfural from Glucose Using Sn-BEA and Amberlyst Catalysts. Industrial & Engineering Chemistry Research, 2012, 51, 5364-5366. | 3.7 | 168 |
| 22 | Structure of the Silica Phase Extracted from Silica/(TPA)OH Solutions Containing Nanoparticles. Journal of Physical Chemistry B, 2003, 107, 10006-10016. | 2.6 | 164 |
| 23 | Zeolite (MFI) Crystal Morphology Control Using Organic Structure-Directing Agents. Chemistry of Materials, 2004, 16, 5697-5705. | 6.7 | 164 |
| 24 | Fabrication of Polymer/Selective-Flake Nanocomposite Membranes and Their Use in Gas Separation. Chemistry of Materials, 2004, 16, 3838-3845. | 6.7 | 152 |
| 25 | Characterization of Zeolite L Nanoclusters. Chemistry of Materials, 1995, 7, 1734-1741. | 6.7 | 149 |
| 26 | Uniformlya-Oriented MFI Zeolite Films by Secondary Growth. Angewandte Chemie - International Edition, 2006, 45, 1154-1158. | 13.8 | 138 |
| 27 | Selfâ€Pillared, Singleâ€Unitâ€Cell Snâ€MFI Zeolite Nanosheets and Their Use for Glucose and Lactose Isomerization. Angewandte Chemie - International Edition, 2015, 54, 10848-10851. | 13.8 | 138 |
| 28 | Continuous production of 5-hydroxymethylfurfural from fructose: a design case study. Energy and Environmental Science, 2010, 3, 1560. | 30.8 | 136 |
| 29 | paraâ€Xylene Ultraâ€selective Zeolite MFI Membranes Fabricated from Nanosheet Monolayers at the Airâ€“Water Interface. Angewandte Chemie - International Edition, 2018, 57, 480-485. | 13.8 | 130 |
| 30 | Synthesis of hydrogen permselective silicon dioxide, titanium dioxide, aluminum oxide, and boron oxide membranes from the chloride precursors. Industrial & Engineering Chemistry Research, 1991, 30, 2152-2159. | 3.7 | 128 |
| 31 | TraPPE-zeo: Transferable Potentials for Phase Equilibria Force Field for All-Silica Zeolites. Journal of Physical Chemistry C, 2013, 117, 24375-24387. | 3.1 | 124 |
| 32 | A highly crystalline layered silicate with three-dimensionally microporous layers. Nature Materials, 2003, 2, 53-58. | 27.5 | 120 |
| 33 | Renewable pâ€Xylene from 2,5â€Dimethylfuran and Ethylene Using Phosphorusâ€Containing Zeolite Catalysts. ChemCatChem, 2017, 9, 398-402. | 3.7 | 118 |
| 34 | Tin-containing zeolite for the isomerization of cellulosic sugars. Microporous and Mesoporous Materials, 2012, 153, 55-58. | 4.4 | 116 |
| 35 | On the direct synthesis of Cu(BDC) MOF nanosheets and their performance in mixed matrix membranes. Journal of Membrane Science, 2018, 549, 312-320. | 8.2 | 116 |
| 36 | Finned zeolite catalysts. Nature Materials, 2020, 19, 1074-1080. | 27.5 | 116 |

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| 37 | Synthesis and Structure Determination of ETS-4 Single Crystals. Chemistry of Materials, 2001, 13, 4247-4254. | 6.7 | 115 |
| 38 | Catalytic Behavior of BrÃ¸nsted Acid Sites in MWW and MFI Zeolites with Dual Meso- and Microporosity. ACS Catalysis, 2011, 1, 7-17. | 11.2 | 113 |
| 39 | Nanoparticles in Lysineâ˜Silica Sols. Chemistry of Materials, 2006, 18, 5814-5816. | 6.7 | 110 |
| 40 | A Structural Resolution Cryo-TEM Study of the Early Stages of MFI Growth. Journal of the American Chemical Society, 2008, 130, 17284-17286. | 13.7 | 110 |
| 41 | Layered Silicates by Swelling of AMHâ€3 and Nanocomposite Membranes. Angewandte Chemie - International Edition, 2008, 47, 552-555. | 13.8 | 107 |
| 42 | Toward High-Throughput Zeolite Membranes. Science, 2011, 334, 767-768. | 12.6 | 105 |
| 43 | On the Synthesis and Adsorption Properties of Singleâ€Unitâ€Cell Hierarchical Zeolites Made by Rotational Intergrowths. Advanced Functional Materials, 2014, 24, 201-208. | 14.9 | 101 |
| 44 | 2â€dimensional zeolites. AICHE Journal, 2014, 60, 2374-2381. | 3.6 | 101 |
| 45 | Openâ€Pore Twoâ€Dimensional MFI Zeolite Nanosheets for the Fabrication of Hydrocarbonâ€Isomerâ€Selective Membranes on Porous Polymer Supports. Angewandte Chemie - International Edition, 2016, 55, 7184-7187. | 13.8 | 100 |
| 46 | Surface Structure of Zeolite (MFI) Crystals. Chemistry of Materials, 2004, 16, 5226-5232. | 6.7 | 95 |
| 47 | Discovery of optimal zeolites for challenging separations and chemical transformations using predictive materials modeling. Nature Communications, 2015, 6, 5912. | 12.8 | 94 |
| 48 | Synthesis of Porous Inorganic Membranes. MRS Bulletin, 1999, 24, 30-35. | 3.5 | 92 |
| 49 | Adsorption of fermentation inhibitors from lignocellulosic biomass hydrolyzates for improved ethanol yield and value-added product recovery. Microporous and Mesoporous Materials, 2009, 122, 143-148. | 4.4 | 92 |
| 50 | Oriented Molecular Sieve Membranes by Heteroepitaxial Growth. Journal of the American Chemical Society, 2002, 124, 12966-12968. | 13.7 | 91 |
| 51 | Sub-40 nm Zeolite Suspensions via Disassembly of Three-Dimensionally Ordered Mesoporous-Imprinted Silicalite-1. Journal of the American Chemical Society, 2011, 133, 493-502. | 13.7 | 91 |
| 52 | One-dimensional intergrowths in two-dimensional zeolite nanosheets and their effect on ultra-selective transport. Nature Materials, 2020, 19, 443-449. | 27.5 | 91 |
| 53 | On the Rotational Intergrowth of Hierarchical FAU/EMT Zeolites. Angewandte Chemie - International Edition, 2014, 53, 9456-9461. | 13.8 | 90 |
| 54 | Challenges of and Insights into Acid-Catalyzed Transformations of Sugars. Journal of Physical Chemistry C, 2014, 118, 22815-22833. | 3.1 | 88 |

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| 55 | Spontaneous formation of inorganic helices. Nature, 2000, 405, 38-38. | 27.8 | 87 |
| 56 | Aggregative Growth of Silicalite-1. Journal of Physical Chemistry B, 2007, 111, 3398-3403. | 2.6 | 87 |
| 57 | Molecular sieves in the nanotechnology era. AICHE Journal, 2002, 48, 654-660. | 3.6 | 85 |
| 58 | Characterization of the Pore Structure of Three-Dimensionally Ordered Mesoporous Carbons Using High Resolution Gas Sorption. Langmuir, 2012, 28, 12647-12654. | 3.5 | 85 |
| 59 | Biomass-Derived Butadiene by Dehydra-Decyclization of Tetrahydrofuran. ACS Sustainable Chemistry and Engineering, 2017, 5, 3732-3736. | 6.7 | 84 |
| 60 | Thermal Stabilization of Metalâ€“Organic Framework-Derived Single-Site Catalytic Clusters through Nanocasting. Journal of the American Chemical Society, 2016, 138, 2739-2748. | 13.7 | 83 |
| 61 | High-resolution electron microscopy study on the growth of zeolite L nanoclusters. Microporous Materials, 1996, 5, 381-388. | 1.6 | 81 |
| 62 | Solutionâ€processable exfoliated zeolite nanosheets purified by density gradient centrifugation. AICHE Journal, 2013, 59, 3458-3467. | 3.6 | 80 |
| 63 | Interplay between hydrophilicity and surface barriers on water transport in zeolite membranes. Nature Communications, 2016, 7, 12762. | 12.8 | 80 |
| 64 | Silica Nanoparticle Crystals and Ordered Coatings Using Lys-Sil and a Novel Coating Device. Langmuir, 2007, 23, 9924-9928. | 3.5 | 78 |
| 65 | Progress in manipulating zeolite morphology and related applications. Current Opinion in Colloid and Interface Science, 2005, 10, 233-238. | 7.4 | 77 |
| 66 | A Chromium Hydroxide/MILâ€101(Cr) MOF Composite Catalyst and Its Use for the Selective Isomerization of Glucose to Fructose. Angewandte Chemie - International Edition, 2018, 57, 4926-4930. | 13.8 | 73 |
| 67 | Influence of layer structure preservation on the catalytic properties of the pillared zeolite MCM-36. Journal of Catalysis, 2010, 272, 298-308. | 6.2 | 72 |
| 68 | Renewable Isoprene by Sequential Hydrogenation of Itaconic Acid and Dehydra-Decyclization of 3-Methyl-Tetrahydrofuran. ACS Catalysis, 2017, 7, 1428-1431. | 11.2 | 72 |
| 69 | H2S adsorption by Ag and Cu ion exchanged faujasites. Microporous and Mesoporous Materials, 2011, 146, 127-133. | 4.4 | 71 |
| 70 | Multicomponent Adsorption of Alcohols onto Silicalite-1 from Aqueous Solution: Isotherms, Structural Analysis, and Assessment of Ideal Adsorbed Solution Theory. Langmuir, 2012, 28, 15566-15576. | 3.5 | 71 |
| 71 | Reactive Deposition of Metal Thin Films within Porous Supports from Supercritical Fluids. Chemistry of Materials, 2001, 13, 2023-2031. | 6.7 | 68 |
| 72 | 2D Zeolite Coatings: Langmuirâ€“Schaefer Deposition of 3â€…nm Thick MFI Zeolite Nanosheets. Angewandte Chemie - International Edition, 2015, 54, 6571-6575. | 13.8 | 67 |

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| 73 | MFI zeolite membranes from a- and randomly oriented monolayers. Adsorption, 2006, 12, 339-360. | 3.0 | 64 |
| 74 | Tunable Oleo-Furan Surfactants by Acylation of Renewable Furans. ACS Central Science, 2016, 2, 820-824. | 11.3 | 64 |
| 75 | A high-performance adsorbent for hydrogen sulfide removal. Microporous and Mesoporous Materials, 2014, 190, 152-155. | 4.4 | 63 |
| 76 | Rapid thermal processing and separation performance of columnar MFI membranes on porous stainless steel tubes. Energy and Environmental Science, 2011, 4, 3479. | 30.8 | 62 |
| 77 | Development of the Transferable Potentials for Phase Equilibria Model for Hydrogen Sulfide. Journal of Physical Chemistry B, 2015, 119, 7041-7052. | 2.6 | 59 |
| 78 | On the kinetics of the isomerization of glucose to fructose using Sn-Beta. Chemical Engineering Science, 2014, 116, 235-242. | 3.8 | 57 |
| 79 | Controlling Dissolution and Transformation of Zeolitic Imidazolate Frameworks by using Electronâ€Beamâ€Induced Amorphization. Angewandte Chemie - International Edition, 2018, 57, 13592-13597. | 13.8 | 57 |
| 80 | A model for the performance of microporous mixed matrix membranes with oriented selective flakes. Journal of Membrane Science, 2007, 295, 50-70. | 8.2 | 56 |
| 81 | Understanding Diffusion in Hierarchical Zeolites with House-of-Cards Nanosheets. ACS Nano, 2016, 10, 7612-7618. | 14.6 | 56 |
| 82 | Ethanol/water mixture pervaporation performance of <scp>b</scp>â€oriented silicaliteâ€1 membranes made by gelâ€free secondary growth. AICHE Journal, 2016, 62, 556-563. | 3.6 | 55 |
| 83 | Continuousc-Oriented AlPO4-5 Films by Tertiary Growth. Chemistry of Materials, 2007, 19, 792-797. | 6.7 | 54 |
| 84 | ZIFâ€8 Membrane Separation Performance Tuning by Vapor Phase Ligand Treatment. Angewandte Chemie - International Edition, 2019, 58, 16390-16394. | 13.8 | 54 |
| 85 | The Catalytic Mechanics of Dynamic Surfaces: Stimulating Methods for Promoting Catalytic Resonance. ACS Catalysis, 2020, 10, 12666-12695. | 11.2 | 54 |
| 86 | Heteroepitaxial Growth of a Zeolite. Angewandte Chemie - International Edition, 2001, 40, 1069-1071. | 13.8 | 53 |
| 87 | On the performance of c-oriented MFI zeolite Membranes treated by rapid thermal processing. Journal of Membrane Science, 2013, 436, 79-89. | 8.2 | 52 |
| 88 | On the TEM and AFM Evidence of Zeosil Nanoslabs Present during the Synthesis of Silicalite-1. Angewandte Chemie - International Edition, 2004, 43, 4558-4561. | 13.8 | 51 |
| 89 | Probing the Relationship between Silicalite-1 Defects and Polyol Adsorption Properties. Langmuir, 2013, 29, 6546-6555. | 3.5 | 51 |
| 90 | Simple quantification of zeolite acid site density by reactive gas chromatography. Catalysis Science and Technology, 2017, 7, 3831-3841. | 4.1 | 51 |

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| 91 | Nanoscale Control of Homoepitaxial Growth on a Twoâ€Dimensional Zeolite. Angewandte Chemie - International Edition, 2017, 56, 535-539. | 13.8 | 50 |
| 92 | Preparation ofb-Oriented MFI Films on Porous Stainless Steel Substrates. Industrial & Engineering Chemistry Research, 2005, 44, 9086-9095. | 3.7 | 48 |
| 93 | Structure and Colloidal Stability of Nanosized Zeolite Beta Precursors. Langmuir, 2010, 26, 1260-1270. | 3.5 | 47 |
| 94 | A Study of Heat-Treatment Induced Framework Contraction in Strontium-ETS-4 by Powder Neutron Diffraction and Vibrational Spectroscopy. Journal of the American Chemical Society, 2001, 123, 12781-12790. | 13.7 | 46 |
| 95 | Physicochemical Characterization of Silicalite-1 Surface and Its Implications on Crystal Growth. Langmuir, 2003, 19, 4619-4626. | 3.5 | 44 |
| 96 | Epitaxially Grown Layered MFIâ€“Bulk MFI Hybrid Zeolitic Materials. ACS Nano, 2012, 6, 9978-9988. | 14.6 | 44 |
| 97 | Oxidation and Reduction under Cover: Chemistry at the Confined Space between Ultrathin Nanoporous Silicates and Ru(0001). Journal of Physical Chemistry C, 2016, 120, 8240-8245. | 3.1 | 44 |
| 98 | Selective adsorption of HMF on porous carbons from fructose/DMSO mixtures. Microporous and Mesoporous Materials, 2012, 158, 253-256. | 4.4 | 42 |
| 99 | Activity and selectivity differences of external BrÃ¸nsted acid sites of single-unit-cell thick and conventional MFI and MWW zeolites. Microporous and Mesoporous Materials, 2014, 200, 287-290. | 4.4 | 42 |
| 100 | Nucleation of open framework materials: Navigating the voids. MRS Bulletin, 2016, 41, 393-398. | 3.5 | 42 |
| 101 | para â€Xylene Ultraâ€selective Zeolite MFI Membranes Fabricated from Nanosheet Monolayers at the Airâ€“Water Interface. Angewandte Chemie, 2018, 130, 489-494. | 2.0 | 42 |
| 102 | Identifying Optimal Zeolitic Sorbents for Sweetening of Highly Sour Natural Gas. Angewandte Chemie - International Edition, 2016, 55, 5938-5942. | 13.8 | 41 |
| 103 | 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. | 6.7 | 41 |
| 104 | MCM-22/Silica Selective Flake Nanocomposite Membranes for Hydrogen Separations. Journal of the American Chemical Society, 2010, 132, 448-449. | 13.7 | 40 |
| 105 | Pillared Snâ€MWW Prepared by a Solidâ€Stateâ€Exchange Method and its Use as a Lewis Acid Catalyst. ChemCatChem, 2016, 8, 1274-1278. | 3.7 | 40 |
| 106 | Direct Synthesis of 7 nm-Thick Zinc(II)â€“Benzimidazoleâ€“Acetate Metalâ€“Organic Framework Nanosheets. Chemistry of Materials, 2018, 30, 69-73. | 6.7 | 40 |
| 107 | Quantification of thickness and wrinkling of exfoliated two-dimensional zeolite nanosheets. Nature Communications, 2015, 6, 7128. | 12.8 | 39 |
| 108 | Selective Glucoseâ€toâ€Fructose Isomerization over Modified Zirconium UiOâ€66 in Alcohol Media. ChemCatChem, 2018, 10, 2417-2423. | 3.7 | 39 |

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| 109 | Strain of MFI crystals in membranes: An in situ synchrotron X-ray study. Microporous and Mesoporous Materials, 2005, 84, 332-337. | 4.4 | 38 |
| 110 | A semi-empirical approach for predicting the performance of mixed matrix membranes containing selective flakes. Journal of Membrane Science, 2009, 326, 595-607. | 8.2 | 38 |
| 111 | Catalysis Center for Energy Innovation for Biomass Processing: Research Strategies and Goals. Catalysis Letters, 2010, 140, 77-84. | 2.6 | 38 |
| 112 | Growth of zeolite crystals with graphene oxide nanosheets. Chemical Communications, 2012, 48, 2249. | 4.1 | 38 |
| 113 | Synthesis and Structure of Ultrafine Zeolite KL (LTL) Crystallites and their Use for Thin Film Zeolite Processing. Materials Research Society Symposia Proceedings, 1994, 371, 21. | 0.1 | 37 |
| 114 | Coating of Open Cell Foams. Industrial & Engineering Chemistry Research, 2012, 51, 9250-9259. | 3.7 | 37 |
| 115 | Density Functional Theory Study on the Adsorption of H<sub>2</sub>S and Other Claus Process Tail Gas Components on Copper- and Silver-Exchanged Y Zeolites. Journal of Physical Chemistry C, 2012, 116, 3561-3575. | 3.1 | 37 |
| 116 | Monte Carlo Simulations Probing the Adsorptive Separation of Hydrogen Sulfide/Methane Mixtures Using All-Silica Zeolites. Langmuir, 2015, 31, 12268-12278. | 3.5 | 37 |
| 117 | ZIFâ€8 Membrane Permselectivity Modification by Manganese(II) Acetylacetonate Vapor Treatment. Angewandte Chemie - International Edition, 2021, 60, 9316-9320. | 13.8 | 36 |
| 118 | On the nucleation and crystallization of silicalite-1 from a dilute clear sol. Microporous and Mesoporous Materials, 2011, 144, 74-81. | 4.4 | 35 |
| 119 | On defects in highly a-oriented MFI membranes. Microporous and Mesoporous Materials, 2013, 170, 1-8. | 4.4 | 35 |
| 120 | Spontaneous Formation of Inorganic Helical Fibers and Rings. Journal of the American Chemical Society, 2000, 122, 12158-12163. | 13.7 | 33 |
| 121 | Layer-by-Layer Deposition of Barrier and Permselective c-Oriented-MCM-22/Silica Composite Films. Industrial & Engineering Chemistry Research, 2007, 46, 7096-7106. | 3.7 | 33 |
| 122 | Growth of AlPO4-5 and CoAPO-5 films from amorphous seeds. Microporous and Mesoporous Materials, 2008, 115, 11-22. | 4.4 | 32 |
| 123 | Toward Submicrometer c-Oriented Nanoporous Films with Unidimensional Pore Network: AFI Film Morphology Control by Precursor Mixture Manipulation. Chemistry of Materials, 2010, 22, 1492-1502. | 6.7 | 31 |
| 124 | First principles Monte Carlo simulations of unary and binary adsorption: CO<sub>2</sub>, N<sub>2</sub>, and H<sub>2</sub>O in Mg-MOF-74. Chemical Communications, 2018, 54, 10816-10819. | 4.1 | 31 |
| 125 | Glucose isomerization in dioxane/water with Sn-Î² catalyst: improved catalyst stability and use for HMF production. Chemical Communications, 2019, 55, 14942-14945. | 4.1 | 31 |
| 126 | Oriented CoSAPOâ€5 Membranes by Microwaveâ€Enhanced Growth on TiO<sub>2</sub>â€Coated Porous Alumina. Angewandte Chemie - International Edition, 2012, 51, 2470-2473. | 13.8 | 30 |

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| 127 | 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. Journal of Membrane Science, 2016, 520, 434-449. | 8.2 | 30 |
| 128 | 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. | 6.7 | 30 |
| 129 | A Chromium Hydroxide/MILâ€101(Cr) MOF Composite Catalyst and Its Use for the Selective Isomerization of Glucose to Fructose. Angewandte Chemie, 2018, 130, 5020-5024. | 2.0 | 30 |
| 130 | Twin-free, directly synthesized MFI nanosheets with improved thickness uniformity and their use in membrane fabrication. Science Advances, 2022, 8, eabm8162. | 10.3 | 30 |
| 131 | Pores by Pillaring: Not Always a Maze. Angewandte Chemie - International Edition, 2008, 47, 4262-4263. | 13.8 | 29 |
| 132 | On stability and performance of highly c-oriented columnar AlPO4-5 and CoAPO-5 membranes. Microporous and Mesoporous Materials, 2012, 147, 286-294. | 4.4 | 29 |
| 133 | Elucidating structureâ€“properties relations for the design of highly selective carbon-based HMF sorbents. Microporous and Mesoporous Materials, 2014, 184, 72-82. | 4.4 | 29 |
| 134 | Large-Grain, Oriented, and Thin Zeolite MFI Films from Directly Synthesized Nanosheet Coatings. Chemistry of Materials, 2018, 30, 3545-3551. | 6.7 | 29 |
| 135 | A quantitative study of the structureâ€“activity relationship in hierarchical zeolites using liquidâ€phase reactions. AICHE Journal, 2019, 65, 1067-1075. | 3.6 | 29 |
| 136 | Role of ethanol in sodalite crystallization in an ethanolâ€“Na2Oâ€“Al2O3â€“SiO2â€“H2O system. CrystEngComm, 2011, 13, 4714. | 2.6 | 28 |
| 137 | Silicaâ€Nanoparticle Coatings by Adsorption from Lysineâ€“Silicaâ€Nanoparticle Sols on Inorganic and Biological Surfaces. Angewandte Chemie - International Edition, 2011, 50, 1617-1621. | 13.8 | 28 |
| 138 | Melt Compounding of Swollen Titanosilicate JDF-L1 with Polysulfone To Obtain Mixed Matrix Membranes for H2/CH4 Separation. Industrial & Engineering Chemistry Research, 2013, 52, 1901-1907. | 3.7 | 28 |
| 139 | Adsorptive Separation of 1-Butanol from Aqueous Solutions Using MFI- and FER-Type Zeolite Frameworks: A Monte Carlo Study. Langmuir, 2016, 32, 2093-2101. | 3.5 | 28 |
| 140 | Transferable potentials for phase equilibria. Improved unitedâ€atom description of ethane and ethylene. AICHE Journal, 2017, 63, 5098-5110. | 3.6 | 28 |
| 141 | Dehydra-Decyclization of Tetrahydrofuran on H-ZSM5: Mechanisms, Pathways, and Transition State Entropy. ACS Catalysis, 2019, 9, 10279-10293. | 11.2 | 27 |
| 142 | ZIFâ€8 Membrane Separation Performance Tuning by Vapor Phase Ligand Treatment. Angewandte Chemie, 2019, 131, 16542-16546. | 2.0 | 26 |
| 143 | Steamâ€Induced Coarsening of Singleâ€Unitâ€Cell MFI Zeolite Nanosheets and Its Effect on External Surface BrÃ¸nsted Acid Catalysis. Angewandte Chemie - International Edition, 2020, 59, 9579-9585. | 13.8 | 26 |
| 144 | A Review of Biorefinery Separations for Bioproduct Production via Thermocatalytic Processing. Annual Review of Chemical and Biomolecular Engineering, 2017, 8, 115-137. | 6.8 | 24 |

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| 145 | Understanding the Unusual Adsorption Behavior in Hierarchical Zeolite Nanosheets. ChemPhysChem, 2014, 15, 2225-2229. | 2.1 | 22 |
| 146 | On the Economics and Process Design of Renewable Butadiene from Biomass-Derived Furfural. ACS Sustainable Chemistry and Engineering, 2020, 8, 3273-3282. | 6.7 | 22 |
| 147 | Dehydra-decyclization of 2-methyltetrahydrofuran to pentadienes on boron-containing zeolites. Green Chemistry, 2020, 22, 4147-4160. | 9.0 | 22 |
| 148 | Long-term steam stability of MWW structure zeolites (MCM-22 and ITQ-1). Microporous and Mesoporous Materials, 2014, 193, 134-144. | 4.4 | 21 |
| 149 | Preparation of a graphene oxide/faujasite composite adsorbent. Microporous and Mesoporous Materials, 2018, 268, 243-250. | 4.4 | 21 |
| 150 | Phosphonateâ€Modified UiOâ€66 BrÃ¸nsted Acid Catalyst and Its Use in Dehydraâ€Decyclization of 2â€Methyltetrahydrofuran to Pentadienes. Angewandte Chemie - International Edition, 2020, 59, 13260-13266. | 13.8 | 21 |
| 151 | Modeling, optimization, and cost analysis of an IGCC plant with a membrane reactor for carbon capture. AICHE Journal, 2016, 62, 1568-1580. | 3.6 | 20 |
| 152 | High-performance ammonia-selective MFI nanosheet membranes. Chemical Communications, 2021, 57, 580-582. | 4.1 | 20 |
| 153 | Solvent-free bottom-up patterning of zeolitic imidazolate frameworks. Nature Communications, 2022, 13, 420. | 12.8 | 20 |
| 154 | Modeling and Optimization of Membrane Reactors for Carbon Capture in Integrated Gasification Combined Cycle Units. Industrial & Engineering Chemistry Research, 2012, 51, 5480-5489. | 3.7 | 19 |
| 155 | Economic assessment of Temperature Swing Adsorption systems as Claus Tail Gas Clean Up Units. Chemical Engineering Science, 2015, 126, 186-195. | 3.8 | 19 |
| 156 | Multi-modal surface analysis of porous films under operando conditions. AIP Advances, 2020, 10, . | 1.3 | 19 |
| 157 | Fewâ€Unitâ€Cell MFI Zeolite Synthesized using a Simple Diâ€quaternary Ammonium Structureâ€Directing Agent. Angewandte Chemie - International Edition, 2021, 60, 19214-19221. | 13.8 | 19 |
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