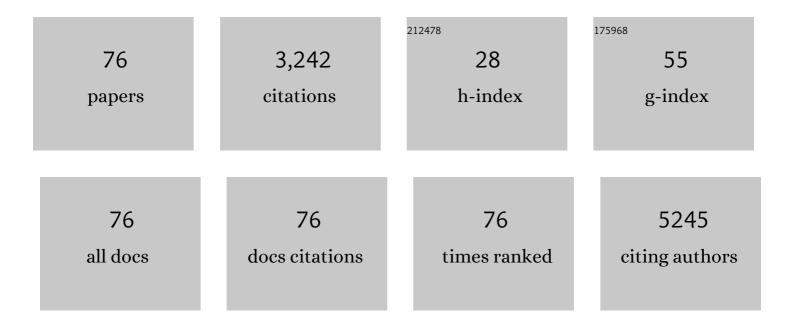
## List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fabrication of b-oriented silicalite-1 membrane by confined space dissolution and recrystallization. Journal of Porous Materials, 2022, 29, 423-431.	1.3	2
2	Innovations Toward the Valorization of Plastics Waste. Annual Review of Materials Research, 2022, 52, 249-280.	4.3	21
3	Mechanistic study on boron adsorption and isotopic separation with magnetic magnetite nanoparticles. Journal of Materials Science, 2021, 56, 4624-4640.	1.7	13
4	Fine-tuning the pore structure of metal–organic frameworks by linker substitution for enhanced hydrogen storage and gas separation. CrystEngComm, 2021, 23, 3026-3032.	1.3	15
5	Direct synthesis of hierarchical zeolites through mesoporous 3D wormhole framework using single-head quaternary ammonium salt as structure-directing agent. Journal of Materials Science, 2021, 56, 6110-6123.	1.7	0
6	First-Principles Grand-Canonical Simulations of Water Adsorption in Proton-Exchanged Zeolites. Journal of Physical Chemistry C, 2021, 125, 6090-6098.	1.5	11
7	Novel Fluorine-Pillared Metal–Organic Framework for Highly Effective Lithium Enrichment from Brine. ACS Applied Materials & Interfaces, 2021, 13, 47793-47799.	4.0	15
8	Nitrogen-Doped Lithium Lanthanum Titanate Nanofiber-Polymer Composite Electrolytes for All-Solid-State Lithium Batteries. Journal of the Electrochemical Society, 2021, 168, 110507.	1.3	8
9	A comprehensive economic optimization methodology of divided wall columns for biopolyol separation. Royal Society Open Science, 2020, 7, 191748.	1.1	1
10	Fabrication of a sandwiched silicalite-1 membrane in a 2D confined space for enhanced alcohol/water separation. Chemical Communications, 2020, 56, 12586-12588.	2.2	12
11	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
12	Understanding solvent effects on adsorption and protonation in porous catalysts. Nature Communications, 2020, 11, 1060.	5.8	71
13	Phase Transitions in Metal–Organic Frameworks Directly Monitored through In Situ Variable Temperature Liquid-Cell Transmission Electron Microscopy and In Situ X-ray Diffraction. Journal of the American Chemical Society, 2020, 142, 4609-4615.	6.6	69
14	Novel Isopropoxy Group-Functionalized UiO-66 with a High Hydrogen Chloride Adsorption Capacity. Journal of Chemical & Engineering Data, 2019, 64, 3576-3584.	1.0	2
15	Modular Synthesis of Highly Porous Zr-MOFs Assembled from Simple Building Blocks for Oxygen Storage. ACS Applied Materials & Interfaces, 2019, 11, 42179-42185.	4.0	17
16	Adsorptive Nature of Surface Barriers in MFI Nanocrystals. Langmuir, 2019, 35, 12407-12417.	1.6	12
17	Topology and porosity control of metal–organic frameworks through linker functionalization. Chemical Science, 2019, 10, 1186-1192.	3.7	129
18	Tuning Adsorption Capacity by Alkoxy Groups: A Study on Acetic Acid Adsorption on UiO-66 Analogues from Aqueous Solution. Industrial & Engineering Chemistry Research, 2019, 58, 12272-12279.	1.8	5

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19	Exploring the Role of Hexanuclear Clusters as Lewis Acidic Sites in Isostructural Metal–Organic Frameworks. Chemistry of Materials, 2019, 31, 4166-4172.	3.2	80
20	Electrochemically Driven, Ni-Catalyzed Aryl Amination: Scope, Mechanism, and Applications. Journal of the American Chemical Society, 2019, 141, 6392-6402.	6.6	251
21	Effects of chloride ions in acid-catalyzed biomass dehydration reactions in polar aprotic solvents. Nature Communications, 2019, 10, 1132.	5.8	117
22	Synthesis, Characterization, Adsorption, and Isotopic Separation Studies of Pyrocatechol-Modified MCM-41 for Efficient Boron Removal. Industrial & Engineering Chemistry Research, 2019, 58, 3282-3292.	1.8	27
23	Alkoxy-Group-Functionalized UiO-66 as Highly Efficient Adsorbents for Hydrogen Chloride Removal from Aqueous Solution. Journal of Chemical & Engineering Data, 2019, 64, 286-295.	1.0	4
24	A modular engineering strategy for highâ€level production of protopanaxadiol from ethanol by <i>Saccharomyces cerevisiae</i> . AICHE Journal, 2019, 65, 866-874.	1.8	31
25	Solvent-enabled control of reactivity for liquid-phase reactions of biomass-derived compounds. Nature Catalysis, 2018, 1, 199-207.	16.1	211
26	Cathodic Corrosion at the Bismuth–Ionic Liquid Electrolyte Interface under Conditions for CO <sub>2</sub> Reduction. Chemistry of Materials, 2018, 30, 2362-2373.	3.2	38
27	Theoretical study on complexes and reactions of boron isotopic exchange separation with fluorinated anisoles as novel donors. Journal of Radioanalytical and Nuclear Chemistry, 2018, 316, 587-594.	0.7	3
28	Hierarchical Hexagonal Zeolites: Intrinsic Transformation Directed by Precise Control of Synthetic Conditions. Industrial & Engineering Chemistry Research, 2018, 57, 5282-5290.	1.8	2
29	Isobaric Vapor–Liquid Equilibrium for Binary and Ternary Systems of 2-Methoxyethanol, Ethylbenzene, and Dimethyl Sulfoxide at 100.00 kPa. Journal of Chemical & Engineering Data, 2018, 63, 3345-3352.	1.0	2
30	Nanosheet-based magadiite: a controllable two-dimensional trap for selective capture of heavy metals. Journal of Materials Chemistry A, 2018, 6, 13624-13632.	5.2	21
31	Assessment and Optimization of Configurational-Bias Monte Carlo Particle Swap Strategies for Simulations of Water in the Gibbs Ensemble. Journal of Chemical Theory and Computation, 2017, 13, 431-440.	2.3	23
32	Isobaric Vapor–Liquid Equilibrium Data for the Binary System of Water + 2-Methylpyridine at 101.3, 60.0, and 20.0 kPa. Journal of Chemical & Engineering Data, 2017, 62, 684-690.	1.0	7
33	Metal–Organic Framework UiO-66 as an Efficient Adsorbent for Boron Removal from Aqueous Solution. Industrial & Engineering Chemistry Research, 2017, 56, 2565-2572.	1.8	55
34	Subâ€Micrometer Zeolite Films on Goldâ€Coated Silicon Wafers with Singleâ€Crystalâ€Like Dielectric Constant and Elastic Modulus. Advanced Functional Materials, 2017, 27, 1700864.	7.8	11
35	Ultra-selective high-flux membranes from directly synthesized zeolite nanosheets. Nature, 2017, 543, 690-694.	13.7	446
36	Metal–organic frameworks (MOFs) as highly efficient agents for boron removal and boron isotope separation. RSC Advances, 2017, 7, 16022-16026.	1.7	16

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37	Growth of two-dimensional silicalite-1 on graphene oxide with controllable electrical conductivity. RSC Advances, 2017, 7, 17629-17632.	1.7	9
38	Enhancing Saccharomyces cerevisiae reactive oxygen species and ethanol stress tolerance for high-level production of protopanoxadiol. Bioresource Technology, 2017, 227, 308-316.	4.8	48
39	Deconstructing the Confinement Effect upon the Organization and Dynamics of Water in Hydrophobic Nanoporous Materials: Lessons Learned from Zeolites. Journal of Physical Chemistry C, 2017, 121, 22015-22024.	1.5	27
40	Conversion of n-hexane and n-dodecane over H-ZSM-5, H-Y and Al-MCM-41 at supercritical conditions. Applied Catalysis A: General, 2017, 546, 149-158.	2.2	27
41	Separation of Xylene Isomers: A Review of Recent Advances in Materials. Industrial & Engineering Chemistry Research, 2017, 56, 14725-14753.	1.8	174
42	Bioethanol enrichment using zeolite membranes: Molecular modeling, conceptual process design and techno-economic analysis. Journal of Membrane Science, 2017, 540, 464-476.	4.1	18
43	Computational Screening of Nanoporous Materials for Hexane and Heptane Isomer Separation. Chemistry of Materials, 2017, 29, 6315-6328.	3.2	65
44	Optimization of a cytochrome P450 oxidation system for enhancing protopanaxadiol production in <i>Saccharomyces cerevisiae</i> . Biotechnology and Bioengineering, 2016, 113, 1787-1795.	1.7	81
45	Adsorption of acetic acid from dilute solution on zeolite 13X: Isotherm, kinetic and thermodynamic studies. , 2016, , .		0
46	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.	4.1	30
47	Dynamic-accumulative operation policy of continuous distillation for the purification of anisole. Polish Journal of Chemical Technology, 2016, 18, 33-39.	0.3	2
48	Understanding Diffusion in Hierarchical Zeolites with House-of-Cards Nanosheets. ACS Nano, 2016, 10, 7612-7618.	7.3	56
49	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
50	Adsorptive Separation of Acetic Acid from Dilute Aqueous Solutions: Adsorption Kinetic, Isotherms, and Thermodynamic Studies. Journal of Chemical & Engineering Data, 2016, 61, 213-219.	1.0	27
51	Accurate and precise determination of critical properties from Gibbs ensemble Monte Carlo simulations. Journal of Chemical Physics, 2015, 143, 114113.	1.2	50
52	A review on the methods of preparation of elemental boron. Asia-Pacific Journal of Chemical Engineering, 2015, 10, 325-338.	0.8	16
53	Morphology and structure of nano MgO prepared by a novel nitrogen-protective pressurization method. RSC Advances, 2015, 5, 44778-44782.	1.7	2
54	Discovery of optimal zeolites for challenging separations and chemical transformations using predictive materials modeling. Nature Communications, 2015, 6, 5912.	5.8	94

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55	Ab Initio Derived Force Fields for Predicting CO <sub>2</sub> Adsorption and Accessibility of Metal Sites in the Metal–Organic Frameworks M-MOF-74 (M = Mn, Co, Ni, Cu). Journal of Physical Chemistry C, 2015, 119, 16058-16071.	1.5	84
56	Renewable Chemicals: Production or Purification by Adsorption Process. Journal of Dispersion Science and Technology, 2015, 36, 1297-1308.	1.3	1
57	Advances in separation methods for large-scale production of silicon isotopes. Journal of Radioanalytical and Nuclear Chemistry, 2015, 304, 989-999.	0.7	5
58	Concentration effects on the selective extraction of ethanol from aqueous solution using silicalite-1 and decanol isomers. Fluid Phase Equilibria, 2014, 362, 118-124.	1.4	7
59	Optimal operation policy of multivessel batch distillation with constant total reflux operation for separation of a binary mixture. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 239-247.	0.8	6
60	Isolation and characterization of phosphate-solubilizing bacteria from betel nut (Areca catechu) and their effects on plant growth and phosphorus mobilization in tropical soils. Biology and Fertility of Soils, 2014, 50, 927-937.	2.3	84
61	Understanding the Unusual Adsorption Behavior in Hierarchical Zeolite Nanosheets. ChemPhysChem, 2014, 15, 2225-2229.	1.0	22
62	Water 26-mers Drawn from Bulk Simulations: Benchmark Binding Energies for Unprecedentedly Large Water Clusters and Assessment of the Electrostatically Embedded Three-Body and Pairwise Additive Approximations. Journal of Physical Chemistry Letters, 2014, 5, 666-670.	2.1	49
63	Isobaric vapor–liquid equilibrium data for methylcyclohexane+2-methoxyethanol and methylcyclohexane+2-ethoxyethanol at 50.00 and 101.33kPa. Fluid Phase Equilibria, 2014, 380, 140-146.	1.4	7
64	2,4-Difluoro anisole: a promising complexing agent for boron isotopes separation by chemical exchange reaction and distillation. Journal of Radioanalytical and Nuclear Chemistry, 2014, 300, 897-902.	0.7	11
65	A computational study of the adsorption of n-perfluorohexane in zeolite BCR-704. Fluid Phase Equilibria, 2014, 366, 146-151.	1.4	14
66	Deconstructing Hydrogen-Bond Networks in Confined Nanoporous Materials: Implications for Alcohol–Water Separation. Journal of Physical Chemistry C, 2014, 118, 19723-19732.	1.5	50
67	Selective adsorption from dilute solutions: Gibbs ensemble Monte Carlo simulations. Fluid Phase Equilibria, 2013, 351, 1-6.	1.4	10
68	TraPPE-zeo: Transferable Potentials for Phase Equilibria Force Field for All-Silica Zeolites. Journal of Physical Chemistry C, 2013, 117, 24375-24387.	1.5	124
69	Adsorption of glucose into zeolite beta from aqueous solution. AICHE Journal, 2013, 59, 3523-3529.	1.8	52
70	Isobaric Vapor–Liquid Equilibrium of Binary and Ternary Systems with 2-Ethoxyethanol + Ethylbenzene + Dimethyl Sulfoxide. Journal of Chemical & Engineering Data, 2013, 58, 3216-3221.	1.0	12
71	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.	1.6	71
72	New Operation Strategy for Separation of Ethanol–Water by Extractive Distillation. Industrial & Engineering Chemistry Research, 2012, 51, 2723-2729.	1.8	85

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73	Gibbs ensemble Monte Carlo simulations for the liquid–liquid phase equilibria of dipropylene glycol dimethyl ether and water: A preliminary report. Fluid Phase Equilibria, 2011, 310, 11-18.	1.4	17
74	Advances in boron-10 isotope separation by chemical exchange distillation. Annals of Nuclear Energy, 2010, 37, 1-4.	0.9	10
75	Proton transfer in 1,4-dioxane/ammonia hydrogen bond clusters. Physical Chemistry Chemical Physics, 2004, 6, 2281.	1.3	5
76	DESIGN AND OPERATION OF A BATCH EXTRACTIVE RECTIFICATION COLUMN WITH A BOTTOM EQUILIBRIUM DISTILLATION STILL. , 2004, , .		0