

Lifeng Yang

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

2,666
citations

201674

27
h-index

265206

42
g-index

43
all docs

43
docs citations

43
times ranked

1754
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Energy-efficient separation alternatives: metal-organic frameworks and membranes for hydrocarbon separation. <i>Chemical Society Reviews</i> , 2020, 49, 5359-5406. | 38.1 | 370 |
| 2 | Ultrahigh and Selective SO ₂ Uptake in Inorganic Anion-Pillared Hybrid Porous Materials. <i>Advanced Materials</i> , 2017, 29, 1606929. | 21.0 | 183 |
| 3 | A Microporous Metal-Organic Framework Supramolecularly Assembled from a Cu ^{II} Dodecaborate Cluster Complex for Selective Gas Separation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8145-8150. | 13.8 | 165 |
| 4 | Benchmark C ₂ H ₂ /CO ₂ Separation in an Ultra-Microporous Metal-Organic Framework via Copper(I)-Alkynyl Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15995-16002. | 13.8 | 148 |
| 5 | Sorting of C ₄ Olefins with Interpenetrated Hybrid Ultramicroporous Materials by Combining Molecular Recognition and Size Sieving. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16282-16287. | 13.8 | 146 |
| 6 | A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials. <i>Advanced Materials</i> , 2018, 30, 1705374. | 21.0 | 133 |
| 7 | Rational Design of Microporous MOFs with Anionic Boron Cluster Functionality and Cooperative Dihydrogen Binding Sites for Highly Selective Capture of Acetylene. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17664-17669. | 13.8 | 110 |
| 8 | Confining Noble Metal (Pd, Au, Pt) Nanoparticles in Surfactant Ionic Liquids: Active Non-Mercury Catalysts for Hydrochlorination of Acetylene. <i>ACS Catalysis</i> , 2015, 5, 6724-6731. | 11.2 | 94 |
| 9 | Highly efficient separation of methane from nitrogen on a squarate-based metal-organic framework. <i>AIChE Journal</i> , 2018, 64, 3681-3689. | 3.6 | 94 |
| 10 | Separation of Xe from Kr with Record Selectivity and Productivity in Anion-Pillared Ultramicroporous Materials by Inverse Size Sieving. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3423-3428. | 13.8 | 91 |
| 11 | A thermostable anion-pillared metal-organic framework for C ₂ H ₂ /C ₂ H ₄ and C ₂ H ₂ /CO ₂ separations. <i>Chemical Engineering Journal</i> , 2018, 352, 803-810. | 12.7 | 85 |
| 12 | An Asymmetric Anion-Pillared Metal-Organic Framework as a Multisite Adsorbent Enables Simultaneous Removal of Propyne and Propadiene from Propylene. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13145-13149. | 13.8 | 85 |
| 13 | Pillar iodination in functional boron cage hybrid supramolecular frameworks for high performance separation of light hydrocarbons. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27560-27566. | 10.3 | 71 |
| 14 | Hexafluorogermanate (GeFSIX) Anion-Functionalized Hybrid Ultramicroporous Materials for Efficiently Trapping Acetylene from Ethylene. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 7266-7274. | 3.7 | 70 |
| 15 | Bioinspired Binders Actively Controlling Ion Migration and Accommodating Volume Change in High Sulfur Loading Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1902938. | 19.5 | 70 |
| 16 | Efficient separation of xylene isomers by a guest-responsive metal-organic framework with rotational anionic sites. <i>Nature Communications</i> , 2020, 11, 5456. | 12.8 | 68 |
| 17 | A highly sensitive flexible metal-organic framework sets a new benchmark for separating propyne from propylene. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24452-24458. | 10.3 | 67 |
| 18 | Separation of Xe from Kr with Record Selectivity and Productivity in Anion-Pillared Ultramicroporous Materials by Inverse Size Sieving. <i>Angewandte Chemie</i> , 2020, 132, 3451-3456. | 2.0 | 63 |

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|----|--|------|-----------|
| 19 | Synthesis of Ionic Ultramicroporous Polymers for Selective Separation of Acetylene from Ethylene. <i>Advanced Materials</i> , 2020, 32, e1907601. | 21.0 | 54 |
| 20 | Polycatenated Molecular Cage-Based Propane Trap for Propylene Purification with Recorded Selectivity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2525-2530. | 8.0 | 50 |
| 21 | Anion Pillared Metal-Organic Framework Embedded with Molecular Rotors for Size-Selective Capture of CO ₂ from CH ₄ and N ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 3138-3144. | 6.7 | 47 |
| 22 | A Microporous Metal-Organic Framework Supramolecularly Assembled from a Cu ^{II} Dodecaborate Cluster Complex for Selective Gas Separation. <i>Angewandte Chemie</i> , 2019, 131, 8229-8234. | 2.0 | 45 |
| 23 | Efficient Separation of Propene and Propane Using Anion-Pillared Metal-Organic Frameworks. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 3531-3537. | 3.7 | 44 |
| 24 | Benchmark C ₂ H ₂ /CO ₂ Separation in an Ultra-Microporous Metal-Organic Framework via Copper(I)-Alkynyl Chemistry. <i>Angewandte Chemie</i> , 2021, 133, 16131-16138. | 2.0 | 43 |
| 25 | Sorting of C ₄ Olefins with Interpenetrated Hybrid Ultramicroporous Materials by Combining Molecular Recognition and Size-Sieving. <i>Angewandte Chemie</i> , 2017, 129, 16500-16505. | 2.0 | 41 |
| 26 | A novel interpenetrated anion-pillared porous material with high water tolerance afforded efficient C ₂ H ₂ /C ₂ H ₄ separation. <i>Chemical Communications</i> , 2019, 55, 5001-5004. | 4.1 | 41 |
| 27 | An Asymmetric Anion-Pillared Metal-Organic Framework as a Multisite Adsorbent Enables Simultaneous Removal of Propyne and Propadiene from Propylene. <i>Angewandte Chemie</i> , 2018, 130, 13329-13333. | 2.0 | 34 |
| 28 | Rational Design of Microporous MOFs with Anionic Boron Cluster Functionality and Cooperative Dihydrogen Binding Sites for Highly Selective Capture of Acetylene. <i>Angewandte Chemie</i> , 2020, 132, 17817-17822. | 2.0 | 28 |
| 29 | Nanoporous Water-Stable Zr-Based Metal-Organic Frameworks for Water Adsorption. <i>ACS Applied Nano Materials</i> , 2021, 4, 4346-4350. | 5.0 | 22 |
| 30 | One-step removal of alkynes and propadiene from cracking gases using a multi-functional molecular separator. <i>Nature Communications</i> , 2022, 13, . | 12.8 | 22 |
| 31 | Metal nanoparticles in ionic liquid-solvent biphasic systems as active catalysts for acetylene hydrochlorination. <i>AIChE Journal</i> , 2018, 64, 2536-2544. | 3.6 | 18 |
| 32 | Remarkable separation of C5 olefins in anion-pillared hybrid porous materials. <i>Nano Research</i> , 2021, 14, 541-545. | 10.4 | 16 |
| 33 | Geometry control of adsorption sites in sulfonate-pillared hybrid ultramicroporous materials for efficient C4 olefin separations. <i>Chemical Engineering Journal</i> , 2021, 425, 130580. | 12.7 | 13 |
| 34 | Pillared-layer ultramicroporous material for highly selective SO ₂ capture from CO ₂ mixtures. <i>Separation and Purification Technology</i> , 2022, 295, 121337. | 7.9 | 8 |
| 35 | Highly Microporous Activated Carbons with Industrial Potential for Selective Adsorption of Ethane over Ethylene. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 13301-13308. | 3.7 | 6 |
| 36 | Responsive Porous Material for Discrimination and Selective Capture of Low-Concentration SO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 5936-5941. | 3.7 | 6 |

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|----|---|------|-----------|
| 37 | Amphiphilic Super-Wetting Ionic-Liquid-Based Lower Critical Solution Temperature System: Preparation, Characterization, and Excellent Dispersion Performance for Nanostructured Materials. ACS Sustainable Chemistry and Engineering, 2020, 8, 3253-3260. | 6.7 | 4 |
| 38 | Gas Purification: Ultrahigh and Selective SO ₂ Uptake in Inorganic Anion-Pillared Hybrid Porous Materials (Adv. Mater. 28/2017). Advanced Materials, 2017, 29, . | 21.0 | 3 |
| 39 | Gas Separation: A Single-Molecule Propyne Trap: Highly Efficient Removal of Propyne from Propylene with Anion-Pillared Ultramicroporous Materials (Adv. Mater. 10/2018). Advanced Materials, 2018, 30, 1870068. | 21.0 | 3 |
| 40 | Innentitelbild: Sorting of C ₄ Olefins with Interpenetrated Hybrid Ultramicroporous Materials by Combining Molecular Recognition and Size-Sieving (Angew. Chem. 51/2017). Angewandte Chemie, 2017, 129, 16310-16310. | 2.0 | 1 |
| 41 | Titelbild: Separation of Xe from Kr with Record Selectivity and Productivity in Anion-Pillared Ultramicroporous Materials by Inverse Size-Sieving (Angew. Chem. 9/2020). Angewandte Chemie, 2020, 132, 3365-3365. | 2.0 | 0 |