# Wei Zhou

## List of PR Articles by Year in descending order

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|---|---|---|---|
| 225<br>PR articles | 29,550<br>PR citations | 3133<br>81<br>PR h-index | 3075<br>167<br>g-index |
| 232<br>documents | 34826<br>doc citations | 3638<br>86<br>h-index | 24796<br>citing authors |

| # | Article | IF | PR Citations |
|---|---|---|---|
| 1 | Hetero-bimetallic paddlewheel complexes for enhanced CO<sub>2</sub> reduction selectivity in MOFs: a first principles study. Physical Chemistry Chemical Physics, 2024, 26, 7627-7637. | 2.7 | 4 |
| 2 | Sulfur substitution in Fe-MOF-74: implications for electrocatalytic CO<sub>2</sub> and CO reduction from an ab initio perspective. Catalysis Science and Technology, 2024, 14, 2541-2548. | 4.0 | 2 |
| 3 | Water-enhanced CO<sub>2</sub> capture with molecular salt sodium guanidinate. Journal of Materials Chemistry A, 2024, 12, 16748-16759. | 9.3 | 2 |
| 4 | Single-Crystalline 3D Covalent Organic Frameworks with Exceptionally High Specific Surface Areas and Gas Storage Capacities. Journal of the American Chemical Society, 2024, 146, 28932-28940. | 15.0 | 69 |
| 5 | Promotion of methane storage capacity with metalâ€“organic frameworks of high porosity. Inorganic Chemistry Frontiers, 2023, 10, 454-459. | 6.4 | 28 |
| 6 | Flexing of a Metalâ€“Organic Framework upon Hydrocarbon Adsorption: Atomic Level Insights from Neutron Scattering. Chemistry of Materials, 2023, 35, 1387-1394. | 6.7 | 8 |
| 7 | Thermal Polymorphism in CsCB11H12. Molecules, 2023, 28, 2296. | 4.3 | 3 |
| 8 | Electrically Conductive Ï€â€Intercalated Graphitic Metalâ€Organic Framework Containing Alternate Ï€â€Donor/Acceptor Stacks. Angewandte Chemie, 2023, 135, . | 1.4 | 0 |
| 9 | Electrically Conductive Ï€â€Intercalated Graphitic Metalâ€Organic Framework Containing Alternate Ï€â€Donor/Acceptor Stacks. Angewandte Chemie - International Edition, 2023, 62, . | 14.4 | 12 |
| 10 | Linkage conversions in single-crystalline covalent organic frameworks. Nature Chemistry, 2023, 16, 114-121. | 18.8 | 191 |
| 11 | Adaptive Pore Opening to Form Tailored Adsorption Sites in a Cooperatively Flexible Framework Enables Record Inverse Propane/Propylene Separation. Journal of the American Chemical Society, 2023, 145, 21955-21965. | 15.0 | 40 |
| 12 | Incorporation of multiple supramolecular binding sites into a robust MOF for benchmark one-step ethylene purification. Nature Communications, 2023, 14, . | 13.9 | 120 |
| 13 | Catalyst Engineering for the Selective Reduction of CO<sub>2</sub> to CH<sub>4</sub>: A Firstâ€Principles Study on Xâ€MOFâ€74 (X=Mg, Mn, Fe, Co, Ni, Cu, Zn). ChemPhysChem, 2023, 24, . | 1.9 | 9 |
| 14 | Observation of Interpenetrated Topology Isomerism for Covalent Organic Frameworks with Atom-Resolution Single Crystal Structures. Journal of the American Chemical Society, 2023, 145, 25332-25340. | 15.0 | 47 |
| 15 | Investigating the non-classical M-H2 bonding in OsClH3(PPh3)3. Journal of Alloys and Compounds, 2022, 894, 162445. | 6.0 | 2 |
| 16 | Maximizing Electroactive Sites in a Threeâ€Dimensional Covalent Organic Framework for Significantly Improved Carbon Dioxide Reduction Electrocatalysis. Angewandte Chemie - International Edition, 2022, 61, . | 14.4 | 140 |
| 17 | Maximizing Electroactive Sites in a Threeâ€Dimensional Covalent Organic Framework for Significantly Improved Carbon Dioxide Reduction Electrocatalysis. Angewandte Chemie, 2022, 134, . | 1.4 | 36 |
| 18 | A novel lanthanide metalâ^'organic frameworks: Multi-responsive luminescent sensor for detecting organic compounds and pesticides. Journal of Solid State Chemistry, 2022, 306, 122723. | 3.3 | 1 |

| # | Article | IF | PR Citations |
|---|---|---|---|
| 19 | Hydrogenâ€Bonded Metalâ€“Nucleobase Frameworks for Efficient Separation of Xenon and Krypton. Angewandte Chemie - International Edition, 2022, 61, . | 14.4 | 68 |
| 20 | An Adaptive Hydrogenâ€Bonded Organic Framework for the Exclusive Recognition of pâ€Xylene. Chemistry - A European Journal, 2022, 28, . | 3.4 | 40 |
| 21 | Hydrogenâ€Bonded Metalâ€“Nucleobase Frameworks for Efficient Separation of Xenon and Krypton. Angewandte Chemie, 2022, 134, . | 1.4 | 9 |
| 22 | Immobilization of Lewis Basic Sites into a Stable Ethane-Selective MOF Enabling One-Step Separation of Ethylene from a Ternary Mixture. Journal of the American Chemical Society, 2022, 144, 2614-2623. | 15.0 | 283 |
| 23 | Photoresponsive Covalent Organic Frameworks with Diarylethene Switch for Tunable Singlet Oxygen Generation. Chemistry of Materials, 2022, 34, 1956-1964. | 6.7 | 69 |
| 24 | Solvent-Dependent Self-Assembly of Hydrogen-Bonded Organic Porphyrinic Frameworks. Crystal Growth and Design, 2022, 22, 3808-3814. | 3.4 | 13 |
| 25 | Effects of intervalence charge transfer interaction between Ï€-stacked mixed valent tetrathiafulvalene ligands on the electrical conductivity of 3D metalâ€“organic frameworks. Chemical Science, 2021, 12, 13379-13391. | 7.1 | 41 |
| 26 | A novel anion-pillared metalâ€“organic framework for highly efficient separation of acetylene from ethylene and carbon dioxide. Journal of Materials Chemistry A, 2021, 9, 9248-9255. | 9.3 | 93 |
| 27 | Interplay between the Reorientational Dynamics of the B<sub>3</sub>H<sub>8</sub><sup>â€“</sup> Anion and the Structure in KB<sub>3</sub>H<sub>8</sub>. Journal of Physical Chemistry C, 2021, 125, 3716-3724. | 3.1 | 14 |
| 28 | Electrostatically Driven Selective Adsorption of Carbon Dioxide over Acetylene in an Ultramicroporous Material. Angewandte Chemie, 2021, 133, 9690-9695. | 1.4 | 22 |
| 29 | Robust Biological Hydrogenâ€Bonded Organic Framework with Postâ€Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visibleâ€Lightâ€Driven CO<sub>2</sub> Reduction. Angewandte Chemie - International Edition, 2021, 60, 8983-8989. | 14.4 | 132 |
| 30 | Robust Biological Hydrogenâ€Bonded Organic Framework with Postâ€Functionalized Rhenium(I) Sites for Efficient Heterogeneous Visibleâ€Lightâ€Driven CO<sub>2</sub> Reduction. Angewandte Chemie, 2021, 133, 9065-9071. | 1.4 | 32 |
| 31 | Two-Dimensional Covalent Organic Frameworks with Cobalt(II)-Phthalocyanine Sites for Efficient Electrocatalytic Carbon Dioxide Reduction. Journal of the American Chemical Society, 2021, 143, 7104-7113. | 15.0 | 340 |
| 32 | Polymorphism of Calcium Decahydrido-closo-decaborate and Characterization of Its Hydrates. Inorganic Chemistry, 2021, 60, 10943-10957. | 4.6 | 7 |
| 33 | Neutron Scattering Investigations of the Global and Local Structures of Ammine Yttrium Borohydrides. Journal of Physical Chemistry C, 2021, 125, 15415-15423. | 3.1 | 9 |
| 34 | Fast Lithium Ionic Conductivity in Complex Hydrideâ€Sulfide Electrolytes by Double Anions Substitution. Small Methods, 2021, 5, . | 9.0 | 18 |
| 35 | Developing Ideal Metalorganic Hydrides for Hydrogen Storage: From Theoretical Prediction to Rational Fabrication. , 2021, 3, 1417-1425. | | 31 |
| 36 | A Solid Transformation into Carboxyl Dimers Based on a Robust Hydrogenâ€Bonded Organic Framework for Propyne/Propylene Separation. Angewandte Chemie - International Edition, 2021, 60, 25942-25948. | 14.4 | 123 |

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| 37 | A Solid Transformation into Carboxyl Dimers Based on a Robust Hydrogenâ€Bonded Organic Framework for Propyne/Propylene Separation. Angewandte Chemie, 2021, 133, 26146-26152. | 1.4 | 17 |
| 38 | A microporous metalâ€“organic framework with naphthalene diimide groups for high methane storage. Dalton Transactions, 2020, 49, 3658-3661. | 3.0 | 39 |
| 39 | Reversed ethane/ethylene adsorption in a metalâ€“organic framework via introduction of oxygen. Chinese Journal of Chemical Engineering, 2020, 28, 593-597. | 3.6 | 22 |
| 40 | Engineering microporous ethane-trapping metalâ€“organic frameworks for boosting ethane/ethylene separation. Journal of Materials Chemistry A, 2020, 8, 3613-3620. | 9.3 | 183 |
| 41 | Structural and reorientational dynamics of tetrahydroborate (BH<sub>4</sub><sup>â^’</sup>) and tetrahydrofuran (THF) in a Mg(BH<sub>4</sub>)<sub>2</sub>Â·3THF adduct: neutron-scattering characterization. Physical Chemistry Chemical Physics, 2020, 22, 368-378. | 2.7 | 8 |
| 42 | Metallo-N-Heterocycles - A new family of hydrogen storage material. Energy Storage Materials, 2020, 26, 198-202. | 18.1 | 40 |
| 43 | Microporous Metal-Organic Framework Materials for Gas Separation. CheM, 2020, 6, 337-363. | 16.6 | 842 |
| 44 | Selective Ethane/Ethylene Separation in a Robust Microporous Hydrogen-Bonded Organic Framework. Journal of the American Chemical Society, 2020, 142, 633-640. | 15.0 | 297 |
| 45 | Creation of Active Sites in MOFâ€808(Zr) by a Facile Route for Oxidative Desulfurization of Model Diesel Oil. ChemistrySelect, 2020, 5, 244-251. | 1.7 | 43 |
| 46 | Porous organic cages as synthetic water channels. Nature Communications, 2020, 11, . | 13.9 | 87 |
| 47 | A novel expanded metalâ€“organic framework for balancing volumetric and gravimetric methane storage working capacities. Chemical Communications, 2020, 56, 13117-13120. | 3.4 | 13 |
| 48 | Structural and Dynamical Properties of Potassium Dodecahydro-monocarba-closo-dodecaborate: KCB<sub>11</sub>H<sub>12</sub>. Journal of Physical Chemistry C, 2020, 124, 17992-18002. | 3.1 | 39 |
| 49 | Electrically Conductive 3D Metalâ€“Organic Framework Featuring Ï€-Acidic Hexaazatriphenylene Hexacarbonitrile Ligands with Anionâ^’Ï€ Interaction and Efficient Charge-Transport Capabilities. ACS Applied Materials & Interfaces, 2020, 12, 40613-40619. | 8.0 | 29 |
| 50 | Optimization of the Pore Structures of MOFs for Record High Hydrogen Volumetric Working Capacity. Advanced Materials, 2020, 32, . | 24.5 | 191 |
| 51 | Reversible Switching between Nonporous and Porous Phases of a New SIFSIX Coordination Network Induced by a Flexible Linker Ligand. Journal of the American Chemical Society, 2020, 142, 6896-6901. | 15.0 | 88 |
| 52 | Structure and dynamics of ethane confined in silica nanopores in the presence of CO2. Journal of Chemical Physics, 2020, 152, . | 2.8 | 18 |
| 53 | Synthesis of Defect-Rich Titanium Terephthalate with the Assistance of Acetic Acid for Room-Temperature Oxidative Desulfurization of Fuel Oil. ACS Catalysis, 2020, 10, 2384-2394. | 12.4 | 138 |
| 54 | Understanding Superionic Conductivity in Lithium and Sodium Salts of Weakly Coordinating Closo-Hexahalocarbaborate Anions. Chemistry of Materials, 2020, 32, 1475-1487. | 6.7 | 44 |

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| 55 | Salenâ€Based Conjugated Microporous Polymers for Efficient Oxygen Evolution Reaction. Chemistry - A European Journal, 2020, 26, 7720-7726. | 3.4 | 30 |
| 56 | A microporous aluminum-based metal-organic framework for high methane, hydrogen, and carbon dioxide storage. Nano Research, 2020, 14, 507-511. | 8.6 | 87 |
| 57 | An Ultramicroporous Metalâ€“Organic Framework for High Sieving Separation of Propylene from Propane. Journal of the American Chemical Society, 2020, 142, 17795-17801. | 15.0 | 272 |
| 58 | A calix[4]resorcinarene-based giant coordination cage: controlled assembly and iodine uptake. Chemical Communications, 2020, 56, 2491-2494. | 3.4 | 45 |
| 59 | A Flexible Microporous Hydrogen-Bonded Organic Framework. Crystal Growth and Design, 2019, 19, 5184-5188. | 3.4 | 61 |
| 60 | Low-Temperature Rotational Tunneling of Tetrahydroborate Anions in Lithium Benzimidazolate-Borohydride Li<sub>2</sub>(bIm)BH<sub>4</sub>. Journal of Physical Chemistry C, 2019, 123, 20789-20799. | 3.1 | 10 |
| 61 | The effect of pore size and layer number of metalâ€“porphyrin coordination nanosheets on sensing DNA. Journal of Materials Chemistry C, 2019, 7, 10240-10246. | 5.1 | 33 |
| 62 | Enhanced Gas Uptake in a Microporous Metalâ€“Organic Framework via a Sorbate Induced-Fit Mechanism. Journal of the American Chemical Society, 2019, 141, 17703-17712. | 15.0 | 184 |
| 63 | Inserting Amide into NOTT-101 to Sharply Enhance Volumetric and Gravimetric Methane Storage Working Capacity. Inorganic Chemistry, 2019, 58, 13782-13787. | 4.6 | 12 |
| 64 | Elucidating J-Aggregation Effect in Boosting Singlet-Oxygen Evolution Using Zirconiumâ€“Porphyrin Frameworks: A Comprehensive Structural, Catalytic, and Spectroscopic Study. ACS Applied Materials & Interfaces, 2019, 11, 45118-45125. | 8.0 | 35 |
| 65 | Tailoring the pore geometry and chemistry in microporous metalâ€“organic frameworks for high methane storage working capacity. Chemical Communications, 2019, 55, 11402-11405. | 3.4 | 20 |
| 66 | Multifunctional porous hydrogen-bonded organic framework materials. Chemical Society Reviews, 2019, 48, 1362-1389. | 37.8 | 1,174 |
| 67 | Our journey of developing multifunctional metal-organic frameworks. Coordination Chemistry Reviews, 2019, 384, 21-36. | 23.2 | 153 |
| 68 | A metalâ€“organic framework with suitable pore size and dual functionalities for highly efficient post-combustion CO<sub>2</sub> capture. Journal of Materials Chemistry A, 2019, 7, 3128-3134. | 9.3 | 177 |
| 69 | Postsynthetic Metalation of a Robust Hydrogen-Bonded Organic Framework for Heterogeneous Catalysis. Journal of the American Chemical Society, 2019, 141, 8737-8740. | 15.0 | 254 |
| 70 | Potassium octahydridotriborate: diverse polymorphism in a potential hydrogen storage material and potassium ion conductor. Dalton Transactions, 2019, 48, 8872-8881. | 3.0 | 45 |
| 71 | Green and scalable synthesis of nitro- and amino-functionalized UiO-66(Zr) and the effect of functional groups on the oxidative desulfurization performance. Inorganic Chemistry Frontiers, 2019, 6, 1267-1274. | 6.4 | 45 |
| 72 | Pore Space Partition within a Metalâ€“Organic Framework for Highly Efficient C<sub>2</sub>H<sub>2</sub>/CO<sub>2</sub> Separation. Journal of the American Chemical Society, 2019, 141, 4130-4136. | 15.0 | 456 |

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| 73 | Microporous Metalâ€“Organic Framework with Dual Functionalities for Efficient Separation of Acetylene from Light Hydrocarbon Mixtures. ACS Sustainable Chemistry and Engineering, 2019, 7, 4897-4902. | 6.9 | 93 |
| 74 | Exploration of porous metalâ€“organic frameworks for gas separation and purification. Coordination Chemistry Reviews, 2019, 378, 87-103. | 23.2 | 671 |
| 75 | A Metalâ€“Organic Framework with Optimized Porosity and Functional Sites for High Gravimetric and Volumetric Methane Storage Working Capacities. Advanced Materials, 2018, 30, . | 24.5 | 130 |
| 76 | Controlling Pore Shape and Size of Interpenetrated Anion-Pillared Ultramicroporous Materials Enables Molecular Sieving of CO<sub>2</sub> Combined with Ultrahigh Uptake Capacity. ACS Applied Materials & Interfaces, 2018, 10, 16628-16635. | 8.0 | 100 |
| 77 | Fine Tuning and Specific Binding Sites with a Porous Hydrogen-Bonded Metal-Complex Framework for Gas Selective Separations. Journal of the American Chemical Society, 2018, 140, 4596-4603. | 15.0 | 246 |
| 78 | Fine-tuning of nano-traps in a stable metalâ€“organic framework for highly efficient removal of propyne from propylene. Journal of Materials Chemistry A, 2018, 6, 6931-6937. | 9.3 | 84 |
| 79 | Porous metalâ€“organic frameworks for fuel storage. Coordination Chemistry Reviews, 2018, 373, 167-198. | 23.2 | 246 |
| 80 | Li<sub>2</sub>NHâ€“LiBH<sub>4</sub>: a Complex Hydride with Near Ambient Hydrogen Adsorption and Fast Lithium Ion Conduction. Chemistry - A European Journal, 2018, 24, 1342-1347. | 3.4 | 19 |
| 81 | MIL-100Cr with open Cr sites for a record N<sub>2</sub>O capture. Chemical Communications, 2018, 54, 14061-14064. | 3.4 | 51 |
| 82 | Nanospace within metalâ€“organic frameworks for gas storage and separation. Materials Today Nano, 2018, 2, 21-49. | 5.1 | 96 |
| 83 | A Metalâ€“Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. Angewandte Chemie - International Edition, 2018, 57, 15183-15188. | 14.4 | 167 |
| 84 | A Metalâ€“Organic Framework with Suitable Pore Size and Specific Functional Sites for the Removal of Trace Propyne from Propylene. Angewandte Chemie, 2018, 130, 15403-15408. | 1.4 | 124 |
| 85 | Molecular Sieving of Ethane from Ethylene through the Molecular Crossâ€Section Size Differentiation in Gallateâ€based Metalâ€“Organic Frameworks. Angewandte Chemie, 2018, 130, 16252-16257. | 1.4 | 94 |
| 86 | Molecular Sieving of Ethane from Ethylene through the Molecular Crossâ€Section Size Differentiation in Gallateâ€based Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 16020-16025. | 14.4 | 282 |
| 87 | Molecular sieving of ethylene from ethane using a rigid metalâ€“organic framework. Nature Materials, 2018, 17, 1128-1133. | 35.2 | 721 |
| 88 | Boosting Ethane/Ethylene Separation within Isoreticular Ultramicroporous Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 12940-12946. | 15.0 | 425 |
| 89 | CH<sub>3</sub>NH<sub>3</sub>PbBr<sub>3</sub> Perovskite Nanocrystals Encapsulated in Lanthanide Metalâ€“Organic Frameworks as a Photoluminescence Converter for Anti-Counterfeiting. ACS Applied Materials & Interfaces, 2018, 10, 27875-27884. | 8.0 | 198 |
| 90 | Visualizing Structural Transformation and Guest Binding in a Flexible Metalâ€“Organic Framework under High Pressure and Room Temperature. ACS Central Science, 2018, 4, 1194-1200. | 9.2 | 58 |

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| 91 | Kinetic separation of propylene over propane in a microporous metal-organic framework. Chemical Engineering Journal, 2018, 354, 977-982. | 12.0 | 138 |
| 92 | Nature of Decahydro-closo-decaborate Anion Reorientations in an Ordered Alkali-Metal Salt: Rb<sub>2</sub>B<sub>10</sub>H<sub>10</sub>. Journal of Physical Chemistry C, 2018, 122, 15198-15207. | 3.1 | 9 |
| 93 | Highly Enhanced Gas Uptake and Selectivity via Incorporating Methoxy Groups into a Microporous Metalâ€“Organic Framework. Crystal Growth and Design, 2017, 17, 2172-2177. | 3.4 | 31 |
| 94 | A microporous hydrogen-bonded organic framework with amine sites for selective recognition of small molecules. Journal of Materials Chemistry A, 2017, 5, 8292-8296. | 9.3 | 100 |
| 95 | Transition and Alkali Metal Complex Ternary Amides for Ammonia Synthesis and Decomposition. Chemistry - A European Journal, 2017, 23, 9766-9771. | 3.4 | 43 |
| 96 | Versatile Assembly of Metal-Coordinated Calix[4]resorcinarene Cavitands and Cages through Ancillary Linker Tuning. Journal of the American Chemical Society, 2017, 139, 7648-7656. | 15.0 | 102 |
| 97 | Optimized Separation of Acetylene from Carbon Dioxide and Ethylene in a Microporous Material. Journal of the American Chemical Society, 2017, 139, 8022-8028. | 15.0 | 536 |
| 98 | Flexibleâ€“Robust Metalâ€“Organic Framework for Efficient Removal of Propyne from Propylene. Journal of the American Chemical Society, 2017, 139, 7733-7736. | 15.0 | 284 |
| 99 | Comparison of the Coordination of B<sub>12</sub>H<sub>12</sub><sup>2â€“</sup>, B<sub>12</sub>Cl<sub>12</sub><sup>2â€“</sup>, and B<sub>12</sub>H<sub>12</sub><sup>2â€“</sup> to Na<sup>+</sup> in the Solid State: Crystal Structures and Thermal Behavior of Na<sub>2</sub>(B<sub>12</sub>F<sub>12</sub>), Na<sub>2</sub>(H<sub>2</sub>O)<sub>4</sub>(B<sub>12</sub>F<sub>12</sub>), Na<sub>2</sub>(B<sub>12</sub>Cl<sub>12</sub>), and Na<sub>2</sub>(H<sub>2</sub>O)<sub>6</sub>(B<sub>12</sub>Cl<sub>12</sub>) | 4.6 | 43 |
| 100 | High-Pressure Methane Adsorption in Two Isoreticular Zr-Based Metalâ€“Organic Frameworks Constructed from C3-Symmetrical Tricarboxylates. Crystal Growth and Design, 2017, 17, 248-254. | 3.4 | 7 |
| 101 | A flexible metalâ€“organic framework with a high density of sulfonic acid sites for proton conduction. Nature Energy, 2017, 2, 877-883. | 50.9 | 713 |
| 102 | Construction of ntt-Type Metalâ€“Organic Framework from C<sub>2</sub>-Symmetry Hexacarboxylate Linker for Enhanced Methane Storage. Crystal Growth and Design, 2017, 17, 4795-4800. | 3.4 | 14 |
| 103 | Latent Porosity in Alkali-Metal M2B12F12 Salts: Structures and Rapid Room-Temperature Hydration/Dehydration Cycles. Inorganic Chemistry, 2017, 56, 12023-12041. | 4.6 | 13 |
| 104 | Two solvent-induced porous hydrogen-bonded organic frameworks: solvent effects on structures and functionalities. Chemical Communications, 2017, 53, 11150-11153. | 3.4 | 125 |
| 105 | Lowering Band Gap of an Electroactive Metalâ€“Organic Framework via Complementary Guest Intercalation. ACS Applied Materials & Interfaces, 2017, 9, 32413-32417. | 8.0 | 92 |
| 106 | Efficient separation of ethylene from acetylene/ethylene mixtures by a flexible-robust metalâ€“organic framework. Journal of Materials Chemistry A, 2017, 5, 18984-18988. | 9.3 | 111 |
| 107 | Fine Tuning of MOFâ€505 Analogues To Reduce Lowâ€Pressure Methane Uptake and Enhance Methane Working Capacity. Angewandte Chemie, 2017, 129, 11584-11588. | 1.4 | 36 |
| 108 | Fine Tuning of MOFâ€505 Analogues To Reduce Lowâ€Pressure Methane Uptake and Enhance Methane Working Capacity. Angewandte Chemie - International Edition, 2017, 56, 11426-11430. | 14.4 | 141 |

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| 109 | Orderâ€“Disorder Transitions and Superionic Conductivity in the Sodium nido-Undeca(carba)borates. Chemistry of Materials, 2017, 29, 10496-10509. | 6.7 | 66 |
| 110 | A metalâ€“organic framework functionalized with piperazine exhibiting enhanced CH<sub>4</sub> storage. Journal of Materials Chemistry A, 2017, 5, 349-354. | 9.3 | 47 |
| 111 | Structural and Dynamical Trends in Alkali-Metal Silanides Characterized by Neutron-Scattering Methods. Journal of Physical Chemistry C, 2016, 120, 21218-21227. | 3.1 | 11 |
| 112 | High methane storage and working capacities in a NbO-type metalâ€“organic framework. Dalton Transactions, 2016, 45, 7559-7562. | 3.0 | 33 |
| 113 | A Fluorinated Metalâ€“Organic Framework for High Methane Storage at Room Temperature. Crystal Growth and Design, 2016, 16, 3395-3399. | 3.4 | 37 |
| 114 | Liquidâ€Like Ionic Conduction in Solid Lithium and Sodium Monocarbaâ€closoâ€Decaborates Near or at Room Temperature. Advanced Energy Materials, 2016, 6, . | 22.6 | 236 |
| 115 | Development of potential organic-molecule-based hydrogen storage materials: Converting C N bond-breaking thermolysis of guanidine to N H bond-breaking dehydrogenation. International Journal of Hydrogen Energy, 2016, 41, 18542-18549. | 9.1 | 7 |
| 116 | A new family of metal borohydride guanidinate complexes: Synthesis, structures and hydrogen-storage properties. Journal of Solid State Chemistry, 2016, 242, 186-192. | 3.3 | 17 |
| 117 | The low-temperature structural behavior of sodium 1-carba-closo-decaborate: NaCB9H10. Journal of Solid State Chemistry, 2016, 243, 162-167. | 3.3 | 15 |
| 118 | Structure-dependent vibrational dynamics of Mg(BH<sub>4</sub>)<sub>2</sub> polymorphs probed with neutron vibrational spectroscopy and first-principles calculations. Physical Chemistry Chemical Physics, 2016, 18, 25546-25552. | 2.7 | 19 |
| 119 | Porous Metal-Organic Frameworks: Promising Materials for Methane Storage. CheM, 2016, 1, 557-580. | 16.6 | 376 |
| 120 | Metalâ€“Organic Frameworks as Platforms for Functional Materials. Accounts of Chemical Research, 2016, 49, 483-493. | 17.1 | 1,624 |
| 121 | Modulating the electrical conductivity of metalâ€“organic framework films with intercalated guest Ï€-systems. Journal of Materials Chemistry C, 2016, 4, 894-899. | 5.1 | 92 |
| 122 | An Iodide-Based Li<sub>7</sub>P<sub>2</sub>S<sub>8</sub>I Superionic Conductor. Journal of the American Chemical Society, 2015, 137, 1384-1387. | 15.0 | 343 |
| 123 | A Flexible Microporous Hydrogen-Bonded Organic Framework for Gas Sorption and Separation. Journal of the American Chemical Society, 2015, 137, 9963-9970. | 15.0 | 453 |
| 124 | Porous metalâ€“organic frameworks with Lewis basic nitrogen sites for high-capacity methane storage. Energy and Environmental Science, 2015, 8, 2504-2511. | 30.9 | 145 |
| 125 | Lithium amidoborane hydrazinates: synthesis, structure and hydrogen storage properties. Journal of Materials Chemistry A, 2015, 3, 10100-10106. | 9.3 | 10 |
| 126 | Novel Microporous Metalâ€“Organic Framework Exhibiting High Acetylene and Methane Storage Capacities. Inorganic Chemistry, 2015, 54, 4377-4381. | 4.6 | 38 |

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| 127 | Structural Behavior of Li<sub>2</sub>B<sub>10</sub>H<sub>10</sub>. Journal of Physical Chemistry C, 2015, 119, 6481-6487. | 3.1 | 43 |
| 128 | The structure of monoclinic Na<sub>2</sub>B<sub>10</sub>H<sub>10</sub>: a combined diffraction, spectroscopy, and theoretical approach. CrystEngComm, 2015, 17, 3533-3540. | 2.4 | 27 |
| 129 | A NbO-type metalâ€“organic framework exhibiting high deliverable capacity for methane storage. Chemical Communications, 2015, 51, 8508-8511. | 3.4 | 81 |
| 130 | Unparalleled lithium and sodium superionic conduction in solid electrolytes with large monovalent cage-like anions. Energy and Environmental Science, 2015, 8, 3637-3645. | 30.9 | 299 |
| 131 | A microporous metalâ€“organic framework with polarized trifluoromethyl groups for high methane storage. Chemical Communications, 2015, 51, 14789-14792. | 3.4 | 41 |
| 132 | Synthesis, structures and dehydrogenation of magnesium borohydrideâ€“ethylenediamine composites. International Journal of Hydrogen Energy, 2015, 40, 412-419. | 9.1 | 31 |
| 133 | Lithiated Primary Amineâ€”A New Material for Hydrogen Storage. Chemistry - A European Journal, 2014, 20, 6632-6635. | 3.4 | 16 |
| 134 | A highly porous NbO type metalâ€“organic framework constructed from an expanded tetracarboxylate. Chemical Communications, 2014, 50, 1552. | 3.4 | 45 |
| 135 | An ammonia-stabilized mixed-cation borohydride: synthesis, structure and thermal decomposition behavior. Physical Chemistry Chemical Physics, 2014, 16, 135-143. | 2.7 | 38 |
| 136 | Synthesis, Thermal Behavior, and Dehydrogenation Kinetics Study of Lithiated Ethylenediamine. Chemistry - A European Journal, 2014, 20, 13636-13643. | 3.4 | 14 |
| 137 | Methane storage in metalâ€“organic frameworks. Chemical Society Reviews, 2014, 43, 5657-5678. | 37.8 | 1,613 |
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