# Timur Islamoglu

List of Publications by Year
in descending order



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|---|---|---|---|
| 143 papers | 11,262 citations | 18482 62 h-index | 32842 100 g-index |
| 148 all docs | 148 docs citations | 148 times ranked | 9793 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Discovery of spontaneous de-interpenetration through charged point-point repulsions. CheM, 2022, 8, 225-242. | 11.7 | 11 |
| 2 | Development of a Metalâ€“Organic Framework/Textile Composite for the Rapid Degradation and Sensitive Detection of the Nerve Agent VX. Chemistry of Materials, 2022, 34, 1269-1277. | 6.7 | 22 |
| 3 | Investigating the Influence of Hexanuclear Clusters in Isostructural Metalâ€“Organic Frameworks on Toxic Gas Adsorption. ACS Applied Materials & Interfaces, 2022, 14, 3048-3056. | 8.0 | 18 |
| 4 | Direct Observation of Modulated Radical Spin States in Metalâ€“Organic Frameworks by Controlled Flexibility. Journal of the American Chemical Society, 2022, 144, 2685-2693. | 13.7 | 23 |
| 5 | Exchange of coordinated carboxylates with azolates as a route to obtain a microporous zincâ€“azolate framework. Chemical Communications, 2022, 58, 4028-4031. | 4.1 | 2 |
| 6 | A Catalytically Accessible Polyoxometalate in a Porous Fiber for Degradation of a Mustard Gas Simulant. ACS Applied Materials & Interfaces, 2022, 14, 16687-16693. | 8.0 | 14 |
| 7 | BODIPY-Based Polymers of Intrinsic Microporosity for the Photocatalytic Detoxification of a Chemical Threat. ACS Applied Materials & Interfaces, 2022, 14, 12596-12605. | 8.0 | 6 |
| 8 | Environmentally Benign Biosynthesis of Hierarchical MOF/Bacterial Cellulose Composite Sponge for Nerve Agent Protection. Angewandte Chemie - International Edition, 2022, 61, . | 13.8 | 28 |
| 9 | Insights into Mass Transfer Barriers in Metalâ€“Organic Frameworks. Chemistry of Materials, 2022, 34, 4134-4141. | 6.7 | 16 |
| 10 | How Reproducible are Surface Areas Calculated from the BET Equation?. Advanced Materials, 2022, 34, . | 21.0 | 82 |
| 11 | Aggregation-Suppressed Porous Processable Hexa-Zirconium/Polymer Composites for Detoxification of a Nerve Agent Simulant. Chemistry of Materials, 2022, 34, 4983-4991. | 6.7 | 7 |
| 12 | Interfacial Unit-Dependent Catalytic Activity for CO Oxidation over Cerium Oxysulfate Cluster Assemblies. ACS Applied Materials & Interfaces, 2022, 14, 33515-33524. | 8.0 | 2 |
| 13 | Hot Press Synthesis of MOF/Textile Composites for Nerve Agent Detoxification. , 2022, 4, 1511-1515. | | 14 |
| 14 | Heteroatom-Doped Porous Carbons as Effective Adsorbers for Toxic Industrial Gasses. ACS Applied Materials & Interfaces, 2022, 14, 33173-33180. | 8.0 | 8 |
| 15 | Separation of Aromatic Hydrocarbons in Porous Materials. Journal of the American Chemical Society, 2022, 144, 12212-12218. | 13.7 | 47 |
| 16 | A historical perspective on porphyrin-based metalâ€“organic frameworks and their applications. Coordination Chemistry Reviews, 2021, 429, 213615. | 18.8 | 140 |
| 17 | Transient Catenation in a Zirconium-Based Metalâ€“Organic Framework and Its Effect on Mechanical Stability and Sorption Properties. Journal of the American Chemical Society, 2021, 143, 1503-1512. | 13.7 | 28 |
| 18 | Proton Conductivity via Trapped Water in Phosphonate-Based Metalâ€“Organic Frameworks Synthesized in Aqueous Media. Inorganic Chemistry, 2021, 60, 1086-1091. | 4.0 | 20 |

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|---|---|---|---|
| 19 | An Amidoxime-Functionalized Porous Reactive Fiber against Toxic Chemicals. , 2021, 3, 320-326. | | 13 |
| 20 | Postsynthetically Modified Polymers of Intrinsic Microporosity (PIMs) for Capturing Toxic Gases. ACS Applied Materials & Interfaces, 2021, 13, 10409-10415. | 8.0 | 30 |
| 21 | Small Molecules, Big Effects: Tuning Adsorption and Catalytic Properties of Metalâ€“Organic Frameworks. Chemistry of Materials, 2021, 33, 1444-1454. | 6.7 | 56 |
| 22 | Nanoporous Water-Stable Zr-Based Metalâ€“Organic Frameworks for Water Adsorption. ACS Applied Nano Materials, 2021, 4, 4346-4350. | 5.0 | 22 |
| 23 | Efficient Removal of Per- and Polyfluoroalkyl Substances from Water with Zirconium-Based Metalâ€“Organic Frameworks. Chemistry of Materials, 2021, 33, 3276-3285. | 6.7 | 79 |
| 24 | Zirconium Metalâ€“Organic Frameworks Integrating Chloride Ions for Ammonia Capture and/or Chemical Separation. ACS Applied Materials & Interfaces, 2021, 13, 22485-22494. | 8.0 | 27 |
| 25 | Insights into Catalytic Hydrolysis of Organophosphonates at Mâ€“OH Sites of Azolate-Based Metal Organic Frameworks. Journal of the American Chemical Society, 2021, 143, 9893-9900. | 13.7 | 45 |
| 26 | Near-instantaneous catalytic hydrolysis of organophosphorus nerve agents with zirconium-based MOF/hydrogel composites. Chem Catalysis, 2021, 1, 721-733. | 6.1 | 49 |
| 27 | Benign Synthesis and Modification of a Znâ€“Azolate Metalâ€“Organic Framework for Enhanced Ammonia Uptake and Catalytic Hydrolysis of an Organophosphorus Chemical. , 2021, 3, 1363-1368. | | 13 |
| 28 | Immobilized Regenerable Active Chlorine within a Zirconium-Based MOF Textile Composite to Eliminate Biological and Chemical Threats. Journal of the American Chemical Society, 2021, 143, 16777-16785. | 13.7 | 64 |
| 29 | Micropore environment regulation of zirconium MOFs for instantaneous hydrolysis of an organophosphorus chemical. Cell Reports Physical Science, 2021, 2, 100612. | 5.6 | 10 |
| 30 | Systematic Study on the Removal of Per- and Polyfluoroalkyl Substances from Contaminated Groundwater Using Metalâ€“Organic Frameworks. Environmental Science & Technology, 2021, 55, 15162-15171. | 10.0 | 73 |
| 31 | Linker Contribution toward Stability of Metalâ€“Organic Frameworks under Ionizing Radiation. Chemistry of Materials, 2021, 33, 9285-9294. | 6.7 | 16 |
| 32 | Fine-Tuning a Robust Metalâ€“Organic Framework toward Enhanced Clean Energy Gas Storage. Journal of the American Chemical Society, 2021, 143, 18838-18843. | 13.7 | 79 |
| 33 | Are you using the right probe molecules for assessing the textural properties of metalâ€“organic frameworks?. Journal of Materials Chemistry A, 2021, 10, 157-173. | 10.3 | 33 |
| 34 | Post-Synthetically Elaborated BODIPY-Based Porous Organic Polymers (POPs) for the Photochemical Detoxification of a Sulfur Mustard Simulant. Journal of the American Chemical Society, 2020, 142, 18554-18564. | 13.7 | 88 |
| 35 | Benign Integration of a Zn-Azolate Metalâ€“Organic Framework onto Textile Fiber for Ammonia Capture. ACS Applied Materials & Interfaces, 2020, 12, 47747-47753. | 8.0 | 37 |
| 36 | Modulation of crystal growth and structure within cerium-based metalâ€“organic frameworks. CrystEngComm, 2020, 22, 8182-8188. | 2.6 | 17 |

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| 37 | Observation of reduced thermal conductivity in a metal-organic framework due to the presence of adsorbates. Nature Communications, 2020, 11, 4010. | 12.8 | 97 |
| 38 | Insights into the Structureâ€“Activity Relationships in Metalâ€“Organic Framework-Supported Nickel Catalysts for Ethylene Hydrogenation. ACS Catalysis, 2020, 10, 8995-9005. | 11.2 | 40 |
| 39 | Catalytic Degradation of an Organophosphorus Agent at Znâ€“OH Sites in a Metalâ€“Organic Framework. Chemistry of Materials, 2020, 32, 6998-7004. | 6.7 | 32 |
| 40 | Reactive Porous Polymers for Detoxification of a Chemical Warfare Agent Simulant. Chemistry of Materials, 2020, 32, 9299-9306. | 6.7 | 38 |
| 41 | Fiber Composites of Metalâ€“Organic Frameworks. Chemistry of Materials, 2020, 32, 7120-7140. | 6.7 | 82 |
| 42 | Maximizing Magnetic Resonance Contrast in Gd(III) Nanoconjugates: Investigation of Proton Relaxation in Zirconium Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2020, 12, 41157-41166. | 8.0 | 20 |
| 43 | Supramolecular Porous Assemblies of Atomically Precise Catalytically Active Cerium-Based Clusters. Chemistry of Materials, 2020, 32, 8522-8529. | 6.7 | 23 |
| 44 | Tuning the Atrazine Binding Sites in an Indium-Based Flexible Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2020, 12, 44762-44768. | 8.0 | 11 |
| 45 | Controlling Polymorphism and Orientation of NU-901/NU-1000 Metalâ€“Organic Framework Thin Films. Chemistry of Materials, 2020, 32, 10556-10565. | 6.7 | 23 |
| 46 | Structural Diversity of Zirconium Metalâ€“Organic Frameworks and Effect on Adsorption of Toxic Chemicals. Journal of the American Chemical Society, 2020, 142, 21428-21438. | 13.7 | 95 |
| 47 | Control of the Porosity in Manganese Trimer-Based Metalâ€“Organic Frameworks by Linker Functionalization. Inorganic Chemistry, 2020, 59, 8444-8450. | 4.0 | 11 |
| 48 | Metalâ€“Organic Frameworks against Toxic Chemicals. Chemical Reviews, 2020, 120, 8130-8160. | 47.7 | 406 |
| 49 | Precise Control of Cu Nanoparticle Size and Catalytic Activity through Pore Templating in Zr Metalâ€“Organic Frameworks. Chemistry of Materials, 2020, 32, 3078-3086. | 6.7 | 21 |
| 50 | Structural Features of Zirconium-Based Metalâ€“Organic Frameworks Affecting Radiolytic Stability. Industrial & Engineering Chemistry Research, 2020, 59, 7520-7526. | 3.7 | 41 |
| 51 | Process-level modelling and optimization to evaluate metalâ€“organic frameworks for post-combustion capture of CO<sub>2</sub>. Molecular Systems Design and Engineering, 2020, 5, 1205-1218. | 3.4 | 37 |
| 52 | Isothermal Titration Calorimetry to Explore the Parameter Space of Organophosphorus Agrochemical Adsorption in MOFs. Journal of the American Chemical Society, 2020, 142, 12357-12366. | 13.7 | 53 |
| 53 | Tuning the Redox Activity of Metalâ€“Organic Frameworks for Enhanced, Selective O<sub>2</sub> Binding: Design Rules and Ambient Temperature O<sub>2</sub> Chemisorption in a Cobaltâ€“Triazolate Framework. Journal of the American Chemical Society, 2020, 142, 4317-4328. | 13.7 | 67 |
| 54 | Tailoring Pore Aperture and Structural Defects in Zirconium-Based Metalâ€“Organic Frameworks for Krypton/Xenon Separation. Chemistry of Materials, 2020, 32, 3776-3782. | 6.7 | 89 |

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| 55 | Solvent-assisted linker exchange enabled preparation of cerium-based metalâ€“organic frameworks constructed from redox active linkers. Inorganic Chemistry Frontiers, 2020, 7, 984-990. | 6.0 | 39 |
| 56 | Zirconium-Based Metalâ€“Organic Frameworks for the Catalytic Hydrolysis of Organophosphorus Nerve Agents. ACS Applied Materials & Interfaces, 2020, 12, 14702-14720. | 8.0 | 175 |
| 57 | A Flexible Interpenetrated Zirconiumâ€Based Metalâ€“Organic Framework with High Affinity toward Ammonia. ChemSusChem, 2020, 13, 1710-1714. | 6.8 | 36 |
| 58 | Designing Porous Materials to Resist Compression: Mechanical Reinforcement of a Zr-MOF with Structural Linkers. Chemistry of Materials, 2020, 32, 3545-3552. | 6.7 | 36 |
| 59 | Benzothiazolium-functionalized NU-1000: a versatile material for carbon dioxide adsorption and cyanide luminescence sensing. Journal of Materials Chemistry C, 2020, 8, 7492-7500. | 5.5 | 22 |
| 60 | Balancing volumetric and gravimetric uptake in highly porous materials for clean energy. Science, 2020, 368, 297-303. | 12.6 | 429 |
| 61 | Time-Resolved <i>in Situ</i> Polymorphic Transformation from One 12-Connected Zr-MOF to Another. , 2020, 2, 499-504. | | 16 |
| 62 | Uncovering the Role of Metalâ€“Organic Framework Topology on the Capture and Reactivity of Chemical Warfare Agents. Chemistry of Materials, 2020, 32, 4609-4617. | 6.7 | 70 |
| 63 | Realization of Lithium-Ion Capacitors with Enhanced Energy Density via the Use of Gadolinium Hexacyanocobaltate as a Cathode Material. ACS Applied Materials & Interfaces, 2019, 11, 31799-31805. | 8.0 | 28 |
| 64 | Mechanistic Study on the Origin of the <i>Trans</i> Selectivity in Alkyne Semihydrogenation by a Heterobimetallic Rhodiumâ€“Gallium Catalyst in a Metalâ€“Organic Framework. Organometallics, 2019, 38, 3466-3473. | 2.3 | 16 |
| 65 | Interplay of Lewis and BrÃ¸nsted Acid Sites in Zr-Based Metalâ€“Organic Frameworks for Efficient Esterification of Biomass-Derived Levulinic Acid. ACS Applied Materials & Interfaces, 2019, 11, 32090-32096. | 8.0 | 44 |
| 66 | Ligand-Directed Reticular Synthesis of Catalytically Active Missing Zirconium-Based Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 12229-12235. | 13.7 | 58 |
| 67 | Uniform, Binary Functionalization of a Metalâ€“Organic Framework Material. Inorganic Chemistry, 2019, 58, 8906-8909. | 4.0 | 9 |
| 68 | Modular Synthesis of Highly Porous Zr-MOFs Assembled from Simple Building Blocks for Oxygen Storage. ACS Applied Materials & Interfaces, 2019, 11, 42179-42185. | 8.0 | 17 |
| 69 | Metalâ€“organic frameworks: A tunable platform to access single-site heterogeneous catalysts. Applied Catalysis A: General, 2019, 586, 117214. | 4.3 | 96 |
| 70 | Ammonia Capture within Isoreticular Metalâ€“Organic Frameworks with Rod Secondary Building Units. , 2019, 1, 476-480. | | 56 |
| 71 | Scalable and Template-Free Aqueous Synthesis of Zirconium-Based Metalâ€“Organic Framework Coating on Textile Fiber. Journal of the American Chemical Society, 2019, 141, 15626-15633. | 13.7 | 148 |
| 72 | Zirconium-Based Metalâ€“Organic Framework with 9-Connected Nodes for Ammonia Capture. ACS Applied Nano Materials, 2019, 2, 6098-6102. | 5.0 | 59 |

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| 73 | Energy-based descriptors to rapidly predict hydrogen storage in metalâ€“organic frameworks. Molecular Systems Design and Engineering, 2019, 4, 162-174. | 3.4 | 179 |
| 74 | Exploiting Ï€â€“Ï€ Interactions to Design an Efficient Sorbent for Atrazine Removal from Water. ACS Applied Materials & Interfaces, 2019, 11, 6097-6103. | 8.0 | 96 |
| 75 | Zirconium-Based Metalâ€“Organic Frameworks for the Removal of Protein-Bound Uremic Toxin from Human Serum Albumin. Journal of the American Chemical Society, 2019, 141, 2568-2576. | 13.7 | 105 |
| 76 | Topology and porosity control of metalâ€“organic frameworks through linker functionalization. Chemical Science, 2019, 10, 1186-1192. | 7.4 | 129 |
| 77 | Cross-linked porous polyurethane materials featuring dodecaborate clusters as inorganic polyol equivalents. Chemical Communications, 2019, 55, 8852-8855. | 4.1 | 11 |
| 78 | Facile and Scalable Coating of Metalâ€“Organic Frameworks on Fibrous Substrates by a Coordination Replication Method at Room Temperature. ACS Applied Materials & Interfaces, 2019, 11, 22714-22721. | 8.0 | 42 |
| 79 | Zirconium Metalâ€“Organic Frameworks for Organic Pollutant Adsorption. Trends in Chemistry, 2019, 1, 304-317. | 8.5 | 147 |
| 80 | Vanadium Catalyst on Isostructural Transition Metal, Lanthanide, and Actinide Based Metalâ€“Organic Frameworks for Alcohol Oxidation. Journal of the American Chemical Society, 2019, 141, 8306-8314. | 13.7 | 112 |
| 81 | Torsion Angle Effect on the Activation of UiO Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2019, 11, 15788-15794. | 8.0 | 31 |
| 82 | Enhanced Activity of Heterogeneous Pd(II) Catalysts on Acid-Functionalized Metalâ€“Organic Frameworks. ACS Catalysis, 2019, 9, 5383-5390. | 11.2 | 77 |
| 83 | Green Synthesis of a Functionalized Zirconium-Based Metalâ€“Organic Framework for Water and Ethanol Adsorption. Inorganics, 2019, 7, 56. | 2.7 | 24 |
| 84 | Scalable, room temperature, and water-based synthesis of functionalized zirconium-based metalâ€“organic frameworks for toxic chemical removal. CrystEngComm, 2019, 21, 2409-2415. | 2.6 | 67 |
| 85 | Synthetic Control of Thorium Polyoxo-Clusters in Metalâ€“Organic Frameworks toward New Thorium-Based Materials. ACS Applied Nano Materials, 2019, 2, 2260-2265. | 5.0 | 34 |
| 86 | Tuning the Properties of Zr<sub>6</sub>O<sub>8</sub> Nodes in the Metal Organic Framework UiO-66 by Selection of Node-Bound Ligands and Linkers. Chemistry of Materials, 2019, 31, 1655-1663. | 6.7 | 97 |
| 87 | Reticular Access to Highly Porous <b>acs</b>-MOFs with Rigid Trigonal Prismatic Linkers for Water Sorption. Journal of the American Chemical Society, 2019, 141, 2900-2905. | 13.7 | 150 |
| 88 | Reticular chemistry in the rational synthesis of functional zirconium cluster-based MOFs. Coordination Chemistry Reviews, 2019, 386, 32-49. | 18.8 | 326 |
| 89 | Toward Base Heterogenization: A Zirconium Metalâ€“Organic Framework/Dendrimer or Polymer Mixture for Rapid Hydrolysis of a Nerve-Agent Simulant. ACS Applied Nano Materials, 2019, 2, 1005-1008. | 5.0 | 57 |
| 90 | A Bismuth Metalâ€“Organic Framework as a Contrast Agent for X-ray Computed Tomography. ACS Applied Bio Materials, 2019, 2, 1197-1203. | 4.6 | 68 |

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| 91 | Porosity Dependence of Compression and Lattice Rigidity in Metalâ€“Organic Framework Series. Journal of the American Chemical Society, 2019, 141, 4365-4371. | 13.7 | 51 |
| 92 | Metalâ€“Organic-Framework-Supported and -Isolated Ceria Clusters with Mixed Oxidation States. ACS Applied Materials & Interfaces, 2019, 11, 47822-47829. | 8.0 | 39 |
| 93 | Controlling the Polymorphism and Topology Transformation in Porphyrinic Zirconium Metalâ€“Organic Frameworks via Mechanochemistry. Journal of the American Chemical Society, 2019, 141, 19214-19220. | 13.7 | 73 |
| 94 | Air oxidation of sulfur mustard gas simulants using a pyrene-based metalâ€“organic framework photocatalyst. Beilstein Journal of Nanotechnology, 2019, 10, 2422-2427. | 2.8 | 14 |
| 95 | Integration of Metalâ€“Organic Frameworks on Protective Layers for Destruction of Nerve Agents under Relevant Conditions. Journal of the American Chemical Society, 2019, 141, 20016-20021. | 13.7 | 106 |
| 96 | Linker Competition within a Metalâ€“Organic Framework for Topological Insights. Inorganic Chemistry, 2019, 58, 1513-1517. | 4.0 | 29 |
| 97 | Guest-Dependent Single-Crystal-to-Single-Crystal Phase Transitions in a Two-Dimensional Uranyl-Based Metalâ€“Organic Framework. Crystal Growth and Design, 2019, 19, 506-512. | 3.0 | 29 |
| 98 | Direct Imaging of Isolated Single-Molecule Magnets in Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 2997-3005. | 13.7 | 71 |
| 99 | Benchmark Study of Hydrogen Storage in Metalâ€“Organic Frameworks under Temperature and Pressure Swing Conditions. ACS Energy Letters, 2018, 3, 748-754. | 17.4 | 147 |
| 100 | NanoMOFs: little crystallites for substantial applications. Journal of Materials Chemistry A, 2018, 6, 7338-7350. | 10.3 | 79 |
| 101 | Lignin-derived heteroatom-doped porous carbons for supercapacitor and CO<sub>2</sub> capture applications. International Journal of Energy Research, 2018, 42, 2686-2700. | 4.5 | 94 |
| 102 | Photoexcited Naphthalene Diimide Radical Anion Linking the Nodes of a Metalâ€“Organic Framework: A Heterogeneous Super-reductant. Chemistry of Materials, 2018, 30, 2488-2492. | 6.7 | 37 |
| 103 | Computer-aided discovery of a metalâ€“organic framework with superior oxygen uptake. Nature Communications, 2018, 9, 1378. | 12.8 | 136 |
| 104 | A porous, electrically conductive hexa-zirconium(<scp>iv</scp>) metalâ€“organic framework. Chemical Science, 2018, 9, 4477-4482. | 7.4 | 158 |
| 105 | Presence versus Proximity: The Role of Pendant Amines in the Catalytic Hydrolysis of a Nerve Agent Simulant. Angewandte Chemie - International Edition, 2018, 57, 1949-1953. | 13.8 | 121 |
| 106 | Presence versus Proximity: The Role of Pendant Amines in the Catalytic Hydrolysis of a Nerve Agent Simulant. Angewandte Chemie, 2018, 130, 1967-1971. | 2.0 | 24 |
| 107 | Efficient Capture of Perrhenate and Pertechnetate by a Mesoporous Zr Metalâ€“Organic Framework and Examination of Anion Binding Motifs. Chemistry of Materials, 2018, 30, 1277-1284. | 6.7 | 125 |
| 108 | Revisiting the structural homogeneity of NU-1000, a Zr-based metalâ€“organic framework. CrystEngComm, 2018, 20, 5913-5918. | 2.6 | 136 |

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| 109 | Room Temperature Synthesis of an 8-Connected Zr-Based Metalâ€“Organic Framework for Top-Down Nanoparticle Encapsulation. Chemistry of Materials, 2018, 30, 2193-2197. | 6.7 | 80 |
| 110 | Synthesis and functionalization of phase-pure NU-901 for enhanced CO<sub>2</sub>adsorption: the influence of a zirconium salt and modulator on the topology and phase purity. CrystEngComm, 2018, 20, 7066-7070. | 2.6 | 43 |
| 111 | New Talent 2018. CrystEngComm, 2018, 20, 5870-5871. | 2.6 | 0 |
| 112 | From Transition Metals to Lanthanides to Actinides: Metal-Mediated Tuning of Electronic Properties of Isostructural Metalâ€“Organic Frameworks. Inorganic Chemistry, 2018, 57, 13246-13251. | 4.0 | 80 |
| 113 | Benign by Design: Green and Scalable Synthesis of Zirconium UiO-Metalâ€“Organic Frameworks by Water-Assisted Mechanochemistry. ACS Sustainable Chemistry and Engineering, 2018, 6, 15841-15849. | 6.7 | 120 |
| 114 | Phosphonates Meet Metalâˆ’Organic Frameworks: Towards CO 2 Adsorption. Israel Journal of Chemistry, 2018, 58, 1164-1170. | 2.3 | 4 |
| 115 | Rational Design of Pore Size and Functionality in a Series of Isoreticular Zwitterionic Metalâ€“Organic Frameworks. Chemistry of Materials, 2018, 30, 8332-8342. | 6.7 | 28 |
| 116 | Efficient extraction of inorganic selenium from water by a Zr metalâ€“organic framework: investigation of volumetric uptake capacity and binding motifs. CrystEngComm, 2018, 20, 6140-6145. | 2.6 | 33 |
| 117 | A Flexible Metalâ€“Organic Framework with 4-Connected Zr<sub>6</sub> Nodes. Journal of the American Chemical Society, 2018, 140, 11179-11183. | 13.7 | 158 |
| 118 | Metalâ€“organic frameworks as platforms for the nanostructuration of single-molecule magnets: new insights from HRTEM. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, a348-a348. | 0.1 | 0 |
| 119 | Room-Temperature Synthesis of UiO-66 and Thermal Modulation of Densities of Defect Sites. Chemistry of Materials, 2017, 29, 1357-1361. | 6.7 | 346 |
| 120 | Cerium(IV) vs Zirconium(IV) Based Metalâ€“Organic Frameworks for Detoxification of a Nerve Agent. Chemistry of Materials, 2017, 29, 2672-2675. | 6.7 | 135 |
| 121 | Postsynthetic Tuning of Metalâ€“Organic Frameworks for Targeted Applications. Accounts of Chemical Research, 2017, 50, 805-813. | 15.6 | 644 |
| 122 | Improvement of Methaneâ€“Framework Interaction by Controlling Pore Size and Functionality of Pillared MOFs. Inorganic Chemistry, 2017, 56, 2581-2588. | 4.0 | 59 |
| 123 | Atomistic Approach toward Selective Photocatalytic Oxidation of a Mustard-Gas Simulant: A Case Study with Heavy-Chalcogen-Containing PCN-57 Analogues. ACS Applied Materials & Interfaces, 2017, 9, 19535-19540. | 8.0 | 63 |
| 124 | Selective Metalâ€“Organic Framework Catalysis of Glucose to 5-Hydroxymethylfurfural Using Phosphate-Modified NU-1000. Industrial & Engineering Chemistry Research, 2017, 56, 7141-7148. | 3.7 | 95 |
| 125 | Metalâ€“organic frameworks for the removal of toxic industrial chemicals and chemical warfare agents. Chemical Society Reviews, 2017, 46, 3357-3385. | 38.1 | 707 |
| 126 | Noninvasive Substitution of K<sup>+</sup> Sites in Cyclodextrin Metalâ€“Organic Frameworks by Li<sup>+</sup> Ions. Journal of the American Chemical Society, 2017, 139, 11020-11023. | 13.7 | 79 |

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| 127 | Detoxification of a Sulfur Mustard Simulant Using a BODIPY-Functionalized Zirconium-Based Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2017, 9, 24555-24560. | 8.0 | 112 |
| 128 | Benzothiazole- and benzoxazole-linked porous polymers for carbon dioxide storage and separation. Journal of Materials Chemistry A, 2017, 5, 258-265. | 10.3 | 87 |
| 129 | Enhanced Carbon Dioxide Capture from Landfill Gas Using Bifunctionalized Benzimidazole-Linked Polymers. ACS Applied Materials & Interfaces, 2016, 8, 14648-14655. | 8.0 | 76 |
| 130 | A cost-effective synthesis of heteroatom-doped porous carbons as efficient CO<sub>2</sub> sorbents. Journal of Materials Chemistry A, 2016, 4, 14693-14702. | 10.3 | 90 |
| 131 | Tuning the Surface Chemistry of Metal Organic Framework Nodes: Proton Topology of the Metal-Oxide-Like Zr<sub>6</sub> Nodes of UiO-66 and NU-1000. Journal of the American Chemical Society, 2016, 138, 15189-15196. | 13.7 | 155 |
| 132 | Combining solvent-assisted linker exchange and transmetallation strategies to obtain a new non-catenated nickel (II) pillared-paddlewheel MOF. Inorganic Chemistry Communication, 2016, 67, 60-63. | 3.9 | 13 |
| 133 | Systematic Postsynthetic Modification of Nanoporous Organic Frameworks for Enhanced CO<sub>2</sub> Capture from Flue Gas and Landfill Gas. Journal of Physical Chemistry C, 2016, 120, 2592-2599. | 3.1 | 69 |
| 134 | An ultra-microporous organic polymer for high performance carbon dioxide capture and separation. Chemical Communications, 2015, 51, 13393-13396. | 4.1 | 71 |
| 135 | Effect of Acid-Catalyzed Formation Rates of Benzimidazole-Linked Polymers on Porosity and Selective CO<sub>2</sub> Capture from Gas Mixtures. Environmental Science & Technology, 2015, 49, 4715-4723. | 10.0 | 41 |
| 136 | Synthesis and evaluation of porous azo-linked polymers for carbon dioxide capture and separation. Journal of Materials Chemistry A, 2015, 3, 20586-20594. | 10.3 | 84 |
| 137 | Highly Selective CO<sub>2</sub> Capture by Triazine-Based Benzimidazole-Linked Polymers. Macromolecules, 2014, 47, 8328-8334. | 4.8 | 141 |
| 138 | Copper(I)-Catalyzed Synthesis of Nanoporous Azo-Linked Polymers: Impact of Textural Properties on Gas Storage and Selective Carbon Dioxide Capture. Chemistry of Materials, 2014, 26, 1385-1392. | 6.7 | 276 |
| 139 | Application of pyrene-derived benzimidazole-linked polymers to CO<sub>2</sub> separation under pressure and vacuum swing adsorption settings. Journal of Materials Chemistry A, 2014, 2, 12492-12500. | 10.3 | 85 |
| 140 | Impact of post-synthesis modification of nanoporous organic frameworks on small gas uptake and selective CO2 capture. Journal of Materials Chemistry A, 2013, 1, 10259. | 10.3 | 134 |
| 141 | Targeted synthesis of a mesoporous triptycene-derived covalent organic framework. CrystEngComm, 2013, 15, 1524-1527. | 2.6 | 131 |
| 142 | Rapid Quantification of Mass Transfer Barriers in Metalâ€“Organic Framework Crystals. Chemistry of Materials, 0, , . | 6.7 | 10 |
| 143 | Environmentally Benign Biosynthesis of Hierarchical MOF/Bacterial Cellulose Composite Sponge for Nerve Agent Protection. Angewandte Chemie, 0, , . | 2.0 | 0 |