

Eric D Bloch

List of Publications by Year in descending order

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76
papers

14,455
citations

101543

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69250

77
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78
all docs

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docs citations

78
times ranked

12879
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Templated synthesis of zirconium(IV)-based metal-organic layers (MOLs) with accessible chelating sites. <i>Chemical Communications</i> , 2022, 58, 957-960. | 4.1 | 6 |
| 2 | Utilization of a Mixed-Ligand Strategy to Tune the Properties of Cuboctahedral Porous Coordination Cages. <i>Inorganic Chemistry</i> , 2022, 61, 4609-4617. | 4.0 | 7 |
| 3 | Gas Storage in Porous Molecular Materials. <i>Chemistry - A European Journal</i> , 2021, 27, 4531-4547. | 3.3 | 30 |
| 4 | Synthesis, characterization, and polymerization of capped paddlewheel porous cages. <i>Dalton Transactions</i> , 2021, 50, 3127-3131. | 3.3 | 6 |
| 5 | Tuning water adsorption, stability, and phase in Fe-MIL-101 and Fe-MIL-88 analogs with amide functionalization. <i>Chemical Communications</i> , 2021, 57, 8312-8315. | 4.1 | 11 |
| 6 | Synthesis and Characterization of an Isorecticular Family of Calixarene-Capped Porous Coordination Cages. <i>Inorganic Chemistry</i> , 2021, 60, 5607-5616. | 4.0 | 18 |
| 7 | Frontispiece: Gas Storage in Porous Molecular Materials. <i>Chemistry - A European Journal</i> , 2021, 27, . | 3.3 | 0 |
| 8 | Manipulating solvent and solubility in the synthesis, activation, and modification of permanently porous coordination cages. <i>Coordination Chemistry Reviews</i> , 2021, 430, 213679. | 18.8 | 20 |
| 9 | Stabilizing Porosity in Organic Cages through Coordination Chemistry. <i>Inorganic Chemistry</i> , 2021, 60, 7044-7050. | 4.0 | 9 |
| 10 | Using Helium Pycnometry to Study the Apparent Densities of Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51925-51932. | 8.0 | 5 |
| 11 | Facile and Rapid Room-Temperature Electrosynthesis and Controlled Surface Growth of Fe-MIL-101 and Fe-MIL-101-NH ₂ . <i>ACS Central Science</i> , 2021, 7, 1427-1433. | 11.3 | 25 |
| 12 | Elaboration of Porous Salts. <i>Journal of the American Chemical Society</i> , 2021, 143, 14956-14961. | 13.7 | 25 |
| 13 | Porous metal-organic alloys based on soluble coordination cages. <i>Chemical Science</i> , 2020, 11, 12540-12546. | 7.4 | 16 |
| 14 | Evaluating UiO-66 Metal-Organic Framework Nanoparticles as Acid-Sensitive Carriers for Pulmonary Drug Delivery Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38989-39004. | 8.0 | 102 |
| 15 | Elucidating the Structure of the Metal-Organic Framework Ru-HKUST-1. <i>Chemistry of Materials</i> , 2020, 32, 7710-7715. | 6.7 | 9 |
| 16 | Using Low-Pressure Methane Adsorption Isotherms for Higher-Throughput Screening of Methane Storage Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40318-40327. | 8.0 | 19 |
| 17 | Structure and redox tuning of gas adsorption properties in calixarene-supported Fe(II)-based porous cages. <i>Chemical Science</i> , 2020, 11, 5273-5279. | 7.4 | 19 |
| 18 | A Charged Coordination Cage-Based Porous Salt. <i>Journal of the American Chemical Society</i> , 2020, 142, 9594-9598. | 13.7 | 60 |

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|----|--|------|-----------|
| 19 | Ligand-Based Phase Control in Porous Zirconium Coordination Cages. <i>Chemistry of Materials</i> , 2020, 32, 5872-5878. | 6.7 | 37 |
| 20 | Synthesis and characterization of low-nuclearity lantern-type porous coordination cages. <i>Chemical Communications</i> , 2020, 56, 8924-8927. | 4.1 | 7 |
| 21 | Permanently Microporous Metal-Organic Polyhedra. <i>Chemical Reviews</i> , 2020, 120, 8987-9014. | 47.7 | 209 |
| 22 | Design and synthesis of aryl-functionalized carbazole-based porous coordination cages. <i>Chemical Communications</i> , 2020, 56, 9352-9355. | 4.1 | 8 |
| 23 | MOF-mimetic molecules: carboxylate-based supramolecular complexes as molecular metal-organic framework analogues. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4217-4229. | 10.3 | 28 |
| 24 | Neutron diffraction structural study of CO ₂ binding in mixed-metal CPM-200 metal-organic frameworks. <i>Chemical Communications</i> , 2020, 56, 2574-2577. | 4.1 | 5 |
| 25 | Atomically Precise Crystalline Materials Based on Kinetically Inert Metal Ions via Reticular Mechanopolymerization. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10878-10883. | 13.8 | 13 |
| 26 | Atomically Precise Crystalline Materials Based on Kinetically Inert Metal Ions via Reticular Mechanopolymerization. <i>Angewandte Chemie</i> , 2020, 132, 10970-10975. | 2.0 | 3 |
| 27 | Tuning the Porosity, Solubility, and Gas-Storage Properties of Cuboctahedral Coordination Cages via Amide or Ester Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24913-24919. | 8.0 | 34 |
| 28 | Novel syntheses of carbazole-3,6-dicarboxylate ligands and their utilization for porous coordination cages. <i>Dalton Transactions</i> , 2020, 49, 16340-16347. | 3.3 | 11 |
| 29 | Design and synthesis of capped-paddlewheel-based porous coordination cages. <i>Chemical Communications</i> , 2019, 55, 9527-9530. | 4.1 | 19 |
| 30 | Electrochemically Mediated Syntheses of Titanium(III)-Based Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2019, 141, 11383-11387. | 13.7 | 29 |
| 31 | Understanding Gas Storage in Cuboctahedral Porous Coordination Cages. <i>Journal of the American Chemical Society</i> , 2019, 141, 12128-12138. | 13.7 | 73 |
| 32 | High-pressure methane storage and selective gas adsorption in a cyclohexane-functionalised porous organic cage. <i>Supramolecular Chemistry</i> , 2019, 31, 508-513. | 1.2 | 16 |
| 33 | Controlling Size, Defectiveness, and Fluorescence in Nanoparticle UiO-66 through Water and Ligand Modulation. <i>Chemistry of Materials</i> , 2019, 31, 4831-4839. | 6.7 | 41 |
| 34 | Mechanochemical synthesis of two-dimensional metal-organic frameworks. <i>Powder Diffraction</i> , 2019, 34, 119-123. | 0.2 | 7 |
| 35 | An experimental and computational study of CO ₂ adsorption in the sodalite-type M-BTT (M = Cr, Mn, Fe,). <i>Journal of Materials Chemistry A</i> , 2019, 7, 7431-7443. | 7.4 | 43 |
| 36 | Separation of Xylene Isomers through Multiple Metal Site Interactions in Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 3412-3422. | 13.7 | 150 |

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|----|---|------|-----------|
| 37 | Structurally characterized terminal manganese(IV) oxo tris(alkoxide) complex. <i>Chemical Science</i> , 2018, 9, 4524-4528. | 7.4 | 28 |
| 38 | Ligand-Based Phase Control in Porous Molecular Assemblies. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11420-11424. | 8.0 | 41 |
| 39 | Mechanochemical Synthesis of Porous Molecular Assemblies. <i>Chemistry of Materials</i> , 2018, 30, 3975-3978. | 6.7 | 17 |
| 40 | Gas adsorption in an isostructural series of pillared coordination cages. <i>Chemical Communications</i> , 2018, 54, 6392-6395. | 4.1 | 19 |
| 41 | Design and Synthesis of Porous Nickel(II) and Cobalt(II) Cages. <i>Inorganic Chemistry</i> , 2018, 57, 11847-11850. | 4.0 | 25 |
| 42 | Methane Storage in Paddlewheel-Based Porous Coordination Cages. <i>Journal of the American Chemical Society</i> , 2018, 140, 11153-11157. | 13.7 | 84 |
| 43 | Oxygen activation at a dicobalt centre of a dipyriddyethane naphthyridine complex. <i>Dalton Transactions</i> , 2018, 47, 11903-11908. | 3.3 | 9 |
| 44 | Structural characterization of framework-gas interactions in the metal-organic framework $\text{Co}_2(\text{dobdc})$ by in situ single-crystal X-ray diffraction. <i>Chemical Science</i> , 2017, 8, 4387-4398. | 7.4 | 80 |
| 45 | Metal Insertion in a Methylamine-Functionalized Zirconium Metal-Organic Framework for Enhanced Carbon Dioxide Capture. <i>Inorganic Chemistry</i> , 2017, 56, 4308-4316. | 4.0 | 11 |
| 46 | Selective Gas Adsorption in Highly Porous Chromium(II)-Based Metal-Organic Polyhedra. <i>Chemistry of Materials</i> , 2017, 29, 8583-8587. | 6.7 | 68 |
| 47 | Hydrogen Storage and Selective, Reversible O_2 Adsorption in a Metal-Organic Framework with Open Chromium(II) Sites. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8605-8609. | 13.8 | 102 |
| 48 | Hydrogen Storage and Selective, Reversible O_2 Adsorption in a Metal-Organic Framework with Open Chromium(II) Sites. <i>Angewandte Chemie</i> , 2016, 128, 8747-8751. | 2.0 | 23 |
| 49 | Electronic Structure of Copper Corroles. <i>Angewandte Chemie</i> , 2016, 128, 2216-2220. | 2.0 | 26 |
| 50 | Electronic Structure of Copper Corroles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2176-2180. | 13.8 | 76 |
| 51 | Hydrogen Storage in the Expanded Pore Metal-Organic Frameworks $\text{M}_2(\text{dobpc})$ ($\text{M} = \text{Mg}$), <i>Journal of the American Chemical Society</i> , 2016, 138, 11431-11434. | 6.7 | 171 |
| 52 | Influence of Solvent-Like Sidechains on the Adsorption of Light Hydrocarbons in Metal-Organic Frameworks. <i>Chemistry - A European Journal</i> , 2015, 21, 18764-18769. | 3.3 | 32 |
| 53 | NMR relaxation and exchange in metal-organic frameworks for surface area screening. <i>Microporous and Mesoporous Materials</i> , 2015, 205, 65-69. | 4.4 | 14 |
| 54 | Gradual Release of Strongly Bound Nitric Oxide from $\text{Fe}_2(\text{NO})_2(\text{dobdc})$. <i>Journal of the American Chemical Society</i> , 2015, 137, 3466-3469. | 13.7 | 81 |

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|----|---|------|-----------|
| 55 | Single-Crystal-to-Single-Crystal Metalation of a Metal-Organic Framework: A Route toward Structurally Well-Defined Catalysts. <i>Inorganic Chemistry</i> , 2015, 54, 2995-3005. | 4.0 | 161 |
| 56 | Cooperative insertion of CO ₂ in diamine-appended metal-organic frameworks. <i>Nature</i> , 2015, 519, 303-308. | 27.8 | 1,026 |
| 57 | Carbohydrate-Mediated Purification of Petrochemicals. <i>Journal of the American Chemical Society</i> , 2015, 137, 5706-5719. | 13.7 | 112 |
| 58 | Critical Factors Driving the High Volumetric Uptake of Methane in Cu ₃ (btc) ₂ . <i>Journal of the American Chemical Society</i> , 2015, 137, 10816-10825. | 13.7 | 73 |
| 59 | Counteranion effects on the catalytic activity of copper salts immobilized on the 2,2'-bipyridine-functionalized metal-organic framework MOF-253. <i>Catalysis Today</i> , 2015, 246, 55-59. | 4.4 | 27 |
| 60 | Multifunctional, Defect-Engineered Metal-Organic Frameworks with Ruthenium Centers: Sorption and Catalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7058-7062. | 13.8 | 237 |
| 61 | Oxidation of ethane to ethanol by N ₂ O in a metal-organic framework with coordinatively unsaturated iron(II) sites. <i>Nature Chemistry</i> , 2014, 6, 590-595. | 13.6 | 398 |
| 62 | Design of a Metal-Organic Framework with Enhanced Back Bonding for Separation of N ₂ and CH ₄ . <i>Journal of the American Chemical Society</i> , 2014, 136, 698-704. | 13.7 | 157 |
| 63 | Selective Propene Oligomerization with Nickel(II)-Based Metal-Organic Frameworks. <i>ACS Catalysis</i> , 2014, 4, 717-721. | 11.2 | 87 |
| 64 | Hydrocarbon Separations in Metal-Organic Frameworks. <i>Chemistry of Materials</i> , 2014, 26, 323-338. | 6.7 | 517 |
| 65 | Comprehensive study of carbon dioxide adsorption in the metal-organic frameworks M ₂ (dobdc) (M = Mg, Mn, Fe, Co, Ni, Cu, Zn). <i>Chemical Science</i> , 2014, 5, 4569-4581. | 7.4 | 342 |
| 66 | CO ₂ Adsorption in Fe ₂ (dobdc): A Classical Force Field Parameterized from Quantum Mechanical Calculations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 12230-12240. | 3.1 | 45 |
| 67 | Reversible CO Binding Enables Tunable CO/H ₂ and CO/N ₂ Separations in Metal-Organic Frameworks with Exposed Divalent Metal Cations. <i>Journal of the American Chemical Society</i> , 2014, 136, 10752-10761. | 13.7 | 210 |
| 68 | Impact of Metal and Anion Substitutions on the Hydrogen Storage Properties of M-BTT Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2013, 135, 1083-1091. | 13.7 | 139 |
| 69 | Selective adsorption of ethylene over ethane and propylene over propane in the metal-organic frameworks M ₂ (dobdc) (M = Mg, Mn, Fe, Co, Ni, Zn). <i>Chemical Science</i> , 2013, 4, 2054. | 7.4 | 398 |
| 70 | Highly Selective Quantum Sieving of D ₂ from H ₂ by a Metal-Organic Framework As Determined by Gas Manometry and Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2013, 135, 9458-9464. | 13.7 | 116 |
| 71 | Hydrogen adsorption in the metal-organic frameworks Fe ₂ (dobdc) and Fe ₂ (O ₂)(dobdc). <i>Dalton Transactions</i> , 2012, 41, 4180. | 3.3 | 78 |
| 72 | Carbon Dioxide Capture in Metal-Organic Frameworks. <i>Chemical Reviews</i> , 2012, 112, 724-781. | 47.7 | 5,612 |

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|----|--|------|-----------|
| 73 | Hydrocarbon Separations in a Metal-Organic Framework with Open Iron(II) Coordination Sites. <i>Science</i> , 2012, 335, 1606-1610. | 12.6 | 1,635 |
| 74 | Acetylene Adsorption on CPO^{M} Metal-Organic Frameworks (M=Fe, Co and Ni). <i>ChemPhysChem</i> , 2012, 13, 445-448. | 2.1 | 38 |
| 75 | Selective Binding of O_2 over N_2 in a Redox-Active Metal-Organic Framework with Open Iron(II) Coordination Sites. <i>Journal of the American Chemical Society</i> , 2011, 133, 14814-14822. | 13.7 | 470 |
| 76 | Metal Insertion in a Microporous Metal-Organic Framework Lined with 2,2'-Bipyridine. <i>Journal of the American Chemical Society</i> , 2010, 132, 14382-14384. | 13.7 | 514 |