# Michael J Katz

List of Publications by Year
in descending order

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|---|---|---|---|
| 60 papers | 6,936 citations | 126907 33 h-index | 123424 61 g-index |
| 65 all docs | 65 docs citations | 65 times ranked | 9216 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A facile synthesis of UiO-66, UiO-67 and their derivatives. Chemical Communications, 2013, 49, 9449. | 4.1 | 1,340 |
| 2 | Destruction of chemical warfare agents using metalâ€“organic frameworks. Nature Materials, 2015, 14, 512-516. | 27.5 | 790 |
| 3 | Simple and Compelling Biomimetic Metalâ€“Organic Framework Catalyst for the Degradation of Nerve Agent Simulants. Angewandte Chemie - International Edition, 2014, 53, 497-501. | 13.8 | 364 |
| 4 | The use of aurophilic and other metalâ€“metal interactions as crystal engineering design elements to increase structural dimensionality. Chemical Society Reviews, 2008, 37, 1884. | 38.1 | 332 |
| 5 | High Efficiency Adsorption and Removal of Selenate and Selenite from Water Using Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2015, 137, 7488-7494. | 13.7 | 330 |
| 6 | Are Zr<sub>6</sub>-based MOFs water stable? Linker hydrolysis vs. capillary-force-driven channel collapse. Chemical Communications, 2014, 50, 8944. | 4.1 | 277 |
| 7 | Directed Growth of Electroactive Metalâ€Organic Framework Thin Films Using Electrophoretic Deposition. Advanced Materials, 2014, 26, 6295-6300. | 21.0 | 265 |
| 8 | Exploiting parameter space in MOFs: a 20-fold enhancement of phosphate-ester hydrolysis with UiO-66-NH<sub>2</sub>. Chemical Science, 2015, 6, 2286-2291. | 7.4 | 265 |
| 9 | Remnant PbI2, an unforeseen necessity in high-efficiency hybrid perovskite-based solar cells?. APL Materials, 2014, 2, . | 5.1 | 264 |
| 10 | Toward solar fuels: Water splitting with sunlight and â€œrustâ€?. Coordination Chemistry Reviews, 2012, 256, 2521-2529. | 18.8 | 209 |
| 11 | Turning On Catalysis: Incorporation of a Hydrogen-Bond-Donating Squaramide Moiety into a Zr Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 919-925. | 13.7 | 186 |
| 12 | Polymorphism of Zn[Au(CN)<sub>2</sub>]<sub>2</sub> and Its Luminescent Sensory Response to NH<sub>3</sub> Vapor. Journal of the American Chemical Society, 2008, 130, 10662-10673. | 13.7 | 182 |
| 13 | The dual capture of As<sup>V</sup> and As<sup>III</sup> by UiO-66 and analogues. Chemical Science, 2016, 7, 6492-6498. | 7.4 | 181 |
| 14 | A historical perspective on porphyrin-based metalâ€“organic frameworks and their applications. Coordination Chemistry Reviews, 2021, 429, 213615. | 18.8 | 140 |
| 15 | A UiO-66 analogue with uncoordinated carboxylic acids for the broad-spectrum removal of toxic chemicals. New Journal of Chemistry, 2015, 39, 2396-2399. | 2.8 | 133 |
| 16 | Dihydrolevoglucosenone (Cyrene) As a Green Alternative to N,N-Dimethylformamide (DMF) in MOF Synthesis. ACS Sustainable Chemistry and Engineering, 2016, 4, 7186-7192. | 6.7 | 123 |
| 17 | Impact of Metallophilicity on â€œColossalâ€•Positive and Negative Thermal Expansion in a Series of Isostructural Dicyanometallate Coordination Polymers. Journal of the American Chemical Society, 2009, 131, 4866-4871. | 13.7 | 109 |
| 18 | High volumetric uptake of ammonia using Cu-MOF-74/Cu-CPO-27. Dalton Transactions, 2016, 45, 4150-4153. | 3.3 | 102 |

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|---|---|---|---|
| 19 | Bistable Dithienylethene-Based Metalâ€“Organic Framework Illustrating Optically Induced Changes in Chemical Separations. Journal of the American Chemical Society, 2017, 139, 13280-13283. | 13.7 | 98 |
| 20 | One Step Backward Is Two Steps Forward: Enhancing the Hydrolysis Rate of UiO-66 by Decreasing [OH<sup>â€“</sup>]. ACS Catalysis, 2015, 5, 4637-4642. | 11.2 | 84 |
| 21 | Structure and Multinuclear Solid-State NMR of a Highly Birefringent Leadâ^'Gold Cyanide Coordination Polymer. Journal of the American Chemical Society, 2006, 128, 3669-3676. | 13.7 | 73 |
| 22 | Highly Birefringent Materials Designed Using Coordination Polymer Synthetic Methodology. Angewandte Chemie - International Edition, 2007, 46, 8804-8807. | 13.8 | 63 |
| 23 | NHC Complexes of Osmium Clusters: A Structural and Reactivity Study. Organometallics, 2008, 27, 5777-5799. | 2.3 | 53 |
| 24 | Diamido-Ether Actinide Complexes as Initiators for Lactide Ring-Opening Polymerization. Organometallics, 2013, 32, 1183-1192. | 2.3 | 53 |
| 25 | Synthesis and structure of diamido ether uranium(iv) and thorium(iv) halide â€œateâ€•complexes and their conversion to salt-free bis(alkyl) complexes. Dalton Transactions, 2005, , 3083. | 3.3 | 51 |
| 26 | Structural and Spectroscopic Impact of Tuning the Stereochemical Activity of the Lone Pair in Lead(II) Cyanoaurate Coordination Polymers via Ancillary Ligands. Inorganic Chemistry, 2008, 47, 6353-6363. | 4.0 | 50 |
| 27 | Characterising Loneâ€Pair Activity of Lead(II) by <sup>207</sup>Pb Solidâ€State NMR Spectroscopy: Coordination Polymers of [N(CN)<sub>2</sub>]<sup>â^'</sup> and [Au(CN)<sub>2</sub>]<sup>â^'</sup> with Terpyridine Ancillary Ligands. Chemistry - A European Journal, 2011, 17, 3609-3618. | 3.3 | 49 |
| 28 | Catalytic conversion of glucose to 5-hydroxymethylfurfural using zirconium-containing metalâ€“organic frameworks using microwave heating. RSC Advances, 2018, 8, 31618-31627. | 3.6 | 49 |
| 29 | One Electron Changes Everything. A Multispecies Copper Redox Shuttle for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2016, 120, 3731-3740. | 3.1 | 45 |
| 30 | Highly Birefringent Cyanoaurate Coordination Polymers: The Effect of Polarizable Câ^'X Bonds (X = Cl,) Tj ETQq0 0 0 rgBT /Overlock 10 T | 13.7 | 44 |
| 31 | Determining the structural stability of UiO-67 with respect to time: a solid-state NMR investigation. Chemical Communications, 2016, 52, 4971-4974. | 4.1 | 41 |
| 32 | Effects of Adsorbed Pyridine Derivatives and Ultrathin Atomic-Layer-Deposited Alumina Coatings on the Conduction Band-Edge Energy of TiO<sub>2</sub> and on Redox-Shuttle-Derived Dark Currents. Langmuir, 2013, 29, 806-814. | 3.5 | 34 |
| 33 | A New Basic Motif in Cyanometallate Coordination Polymers: Structure and Magnetic Behavior of M(Î¼-OH2)2[Au(CN)2]2 (M=Cu, Ni). Chemistry - A European Journal, 2006, 12, 6748-6761. | 3.3 | 33 |
| 34 | Classâ€…III Delocalization and Exciton Coupling in a Bimetallic Bisâ€ligand Radical Complex. Chemistry - A European Journal, 2013, 19, 9606-9618. | 3.3 | 32 |
| 35 | Vapochromic Behaviour of M[Au(CN)2]2-Based Coordination Polymers (M = Co, Ni). Sensors, 2012, 12, 3669-3692. | 3.8 | 31 |
| 36 | Alkaline Earth Metalâ€“Organic Frameworks with Tailorable Ion Release: A Path for Supporting Biomineralization. ACS Applied Materials & Interfaces, 2019, 11, 32739-32745. | 8.0 | 30 |

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|---|---|---|---|
| 37 | [Au(CN)4]-as Both an Intramolecular and Intermolecular Bidentate Ligand with [(tmeda)Cu(Î¼-OH)] Dimers:Â from Antiferro- to Ferromagnetic Coupling in Polymorphs. Inorganic Chemistry, 2006, 45, 1757-1765. | 4.0 | 29 |
| 38 | Fabrication of Transparent-Conducting-Oxide-Coated Inverse Opals as Mesostructured Architectures for Electrocatalysis Applications: A Case Study with NiO. ACS Applied Materials & Interfaces, 2014, 6, 12290-12294. | 8.0 | 28 |
| 39 | Selective decontamination of the reactive air pollutant nitrous acid via node-linker cooperativity in a metalâ€“organic framework. Chemical Science, 2019, 10, 5576-5581. | 7.4 | 28 |
| 40 | Changes in Electronic Properties of Polymeric One-Dimensional {[M(CN)<sub>2</sub>]<sup>â^'</sup>}<sub>n</sub> (M = Au, Ag) Chains Due to Neighboring Closed-Shell Zn(II) or Open-Shell Cu(II) Ions. Inorganic Chemistry, 2011, 50, 231-237. | 4.0 | 24 |
| 41 | Structural Design Parameters for Highly Birefringent Coordination Polymers. Inorganic Chemistry, 2015, 54, 6462-6471. | 4.0 | 23 |
| 42 | Analysis of the Water Adsorption Isotherms in UiO-Based Metalâ€“Organic Frameworks. Journal of Physical Chemistry C, 2022, 126, 1107-1114. | 3.1 | 21 |
| 43 | Natural abundance 13C and 15N solid-state NMR analysis of paramagnetic transition-metal cyanide coordination polymers. Physical Chemistry Chemical Physics, 2009, 11, 6925. | 2.8 | 20 |
| 44 | High-Surface-Area Architectures for Improved Charge Transfer Kinetics at the Dark Electrode in Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 8646-8650. | 8.0 | 17 |
| 45 | Significant Variability in the Photocatalytic Activity of Natural Titanium-Containing Minerals: Implications for Understanding and Predicting Atmospheric Mineral Dust Photochemistry. Environmental Science & Technology, 2020, 54, 13509-13516. | 10.0 | 17 |
| 46 | Diamidosilylether complexes of yttrium(III) and chromium(III): Synthetic challenges and surprises. Inorganica Chimica Acta, 2006, 359, 2826-2834. | 2.4 | 15 |
| 47 | Dynamics of Back Electron Transfer in Dye-Sensitized Solar Cells Featuring 4-tert-Butyl-Pyridine and Atomic-Layer-Deposited Alumina as Surface Modifiers. Journal of Physical Chemistry B, 2015, 119, 7162-7169. | 2.6 | 15 |
| 48 | The perils and opportunities of reactive building blocks: Attempted synthesis of new Hg(CN)2-based coordination polymers and the structures of the resulting products. Journal of Molecular Structure, 2006, 796, 223-229. | 3.6 | 14 |
| 49 | Preparation and characterization of two chiral Au(CN)2-based coordination polymers containing (1R,2R)-N,Nâ€²-dimethylcyclohexanediamine. CrystEngComm, 2007, 9, 1078. | 2.6 | 14 |
| 50 | Synthesis and characterization of a series of halide-bridged, multinuclear iron(ii) and cobalt(ii) diamido complexes and a dinuclear, high-spin cobalt(ii) alkyl derivative. Dalton Transactions, 2010, 39, 9889. | 3.3 | 12 |
| 51 | A Concert of Weak Interactions Generates the Very Complex {Cu(tmeda)[Au(CN)4]2}Â·3H2O Structure. Crystal Growth and Design, 2007, 7, 1946-1948. | 3.0 | 11 |
| 52 | Barrier-Layer-Mediated Electron Transfer from Semiconductor Electrodes to Molecules in Solution: Sensitivity of Mechanism to Barrier-Layer Thickness. Journal of Physical Chemistry C, 2016, 120, 20922-20928. | 3.1 | 9 |
| 53 | Synthesis, Structures, and Kinetics of Mixed-Donor Amidoâ^'Aminoâ^'Siloxo Ligands from Symmetrical Diamidosilyl Ether Ligands via a Retro-Brook Rearrangement. Inorganic Chemistry, 2008, 47, 812-822. | 4.0 | 8 |
| 54 | Ultrahigh Size Exclusion Selectivity for Carbon Dioxide from Nitrogen/Methane in an Ultramicroporous Metalâ€“Organic Framework. Inorganic Chemistry, 2022, 61, 7970-7979. | 4.0 | 8 |

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| 55 | Directed ortho,ortho'-dimetalation of hydrobenzoin: Rapid access to hydrobenzoin derivatives useful for asymmetric synthesis. Beilstein Journal of Organic Chemistry, 2011, 7, 1315-1322. | 2.2 | 7 |
| 56 | Structural Pitstops and Turnoffs on the Way to the Birefringent 2-D Layer Structure $${hbox{(tmeda)M[Hg(CN)}_{2}]_{2}}[hbox{HgCl}_{4}]$$ (M=Cu, Ni). Journal of Inorganic and Organometallic Polymers and Materials, 2005, 15, 447-458. | 3.7 | 6 |
| 57 | Investigating the cheletropic reaction between sulfur dioxide and butadiene-containing linkers in UiO-66. Canadian Journal of Chemistry, 2018, 96, 139-143. | 1.1 | 5 |
| 58 | Photochromic benzo[g]quinoxalines. Canadian Journal of Chemistry, 2011, 89, 297-302. | 1.1 | 4 |
| 59 | Investigating the crystal engineering of the pillared paddlewheel metalâ€“organic framework Zn2(NH2BDC)2DABCO. CrystEngComm, 2018, 20, 6082-6087. | 2.6 | 3 |
| 60 | Unexpected Transformation of a Schiff Base Pyridine N-Oxide in the Presence of Pr(NO3)3 Â· 6H2O. Phosphorus, Sulfur and Silicon and the Related Elements, 2013, 188, 111-115. | 1.6 | 0 |