

# Andrew S Rosen

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

986  
citations

687363

13  
h-index

752698

20  
g-index

26  
all docs

26  
docs citations

26  
times ranked

1079  
citing authors

#	ARTICLE	IF	CITATIONS
1	Realizing the data-driven, computational discovery of metal-organic framework catalysts. <i>Current Opinion in Chemical Engineering</i> , 2022, 35, 100760.	7.8	28
2	Exploring mechanistic routes for light alkane oxidation with an iron-triazolate metal-organic framework. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8129-8141.	2.8	6
3	High-throughput predictions of metal-organic framework electronic properties: theoretical challenges, graph neural networks, and data exploration. <i>Npj Computational Materials</i> , 2022, 8, .	8.7	43
4	Machine learning the quantum-chemical properties of metal-organic frameworks for accelerated materials discovery. <i>Matter</i> , 2021, 4, 1578-1597.	10.0	170
5	Fine-Tuning a Robust Metal-Organic Framework toward Enhanced Clean Energy Gas Storage. <i>Journal of the American Chemical Society</i> , 2021, 143, 18838-18843.	13.7	79
6	Zr <sub>6</sub> O <sub>8</sub> Node-Catalyzed Butene Hydrogenation and Isomerization in the Metal-Organic Framework NU-1000. <i>ACS Catalysis</i> , 2020, 10, 14959-14970.	11.2	24
7	Supramolecular Porous Assemblies of Atomically Precise Catalytically Active Cerium-Based Clusters. <i>Chemistry of Materials</i> , 2020, 32, 8522-8529.	6.7	23
8	Topological effects on separation of alkane isomers in metal-organic frameworks. <i>Fluid Phase Equilibria</i> , 2020, 519, 112642.	2.5	8
9	Comparing GGA, GGA+U, and meta-GGA functionals for redox-dependent binding at open metal sites in metal-organic frameworks. <i>Journal of Chemical Physics</i> , 2020, 152, 224101.	3.0	16
10	High-Valent Metal-Oxo Species at the Nodes of Metal-Triazolate Frameworks: The Effects of Ligand Exchange and Two-State Reactivity for C-H Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19494-19502.	13.8	14
11	High-Valent Metal-Oxo Species at the Nodes of Metal-Triazolate Frameworks: The Effects of Ligand Exchange and Two-State Reactivity for C-H Bond Activation. <i>Angewandte Chemie</i> , 2020, 132, 19662-19670.	2.0	9
12	Tuning the Redox Activity of Metal-Organic Frameworks for Enhanced, Selective O <sub>2</sub> Binding: Design Rules and Ambient Temperature O <sub>2</sub> Chemisorption in a Cobalt-Triazolate Framework. <i>Journal of the American Chemical Society</i> , 2020, 142, 4317-4328.	13.7	67
13	Identification Schemes for Metal-Organic Frameworks To Enable Rapid Search and Cheminformatics Analysis. <i>Crystal Growth and Design</i> , 2019, 19, 6682-6697.	3.0	123
14	Structure-Activity Relationships That Identify Metal-Organic Framework Catalysts for Methane Activation. <i>ACS Catalysis</i> , 2019, 9, 3576-3587.	11.2	105
15	Identifying promising metal-organic frameworks for heterogeneous catalysis via high-throughput periodic density functional theory. <i>Journal of Computational Chemistry</i> , 2019, 40, 1305-1318.	3.3	87
16	Correlations, trends and potential biases among publicly accessible web-based student evaluations of teaching: a large-scale study of RateMyProfessors.com data. <i>Assessment and Evaluation in Higher Education</i> , 2018, 43, 31-44.	5.6	57
17	Evidence for Copper Dimers in Low-Loaded CuO <sub>x</sub> /SiO <sub>2</sub> Catalysts for Cyclohexane Oxidative Dehydrogenation. <i>ACS Catalysis</i> , 2018, 8, 9775-9789.	11.2	11
18	Comprehensive Phase Diagrams of MoS <sub>2</sub> Edge Sites Using Dispersion-Corrected DFT Free Energy Calculations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15318-15329.	3.1	18

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19	A detailed combined experimental and theoretical study on dimethyl ether/propane blended oxidation. Combustion and Flame, 2016, 168, 310-330.	5.2	85
20	Validation of x-ray line ratios for electron temperature determination in tokamak plasmas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 105701.	1.5	6