Andrew S Rosen

List of Publications by Year
in descending order

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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	Machine learning the quantum-chemical properties of metalâ€“organic frameworks for accelerated materials discovery. Matter, 2021, 4, 1578-1597.	10.0	170
2	Identification Schemes for Metalâ€“Organic Frameworks To Enable Rapid Search and Cheminformatics Analysis. Crystal Growth and Design, 2019, 19, 6682-6697.	3.0	123
3	Structureâ€“Activity Relationships That Identify Metalâ€“Organic Framework Catalysts for Methane Activation. ACS Catalysis, 2019, 9, 3576-3587.	11.2	105
4	Identifying promising metalâ€“organic frameworks for heterogeneous catalysis via highâ€throughput periodic density functional theory. Journal of Computational Chemistry, 2019, 40, 1305-1318.	3.3	87
5	A detailed combined experimental and theoretical study on dimethyl ether/propane blended oxidation. Combustion and Flame, 2016, 168, 310-330.	5.2	85
6	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
7	Tuning the Redox Activity of Metalâ€“Organic Frameworks for Enhanced, Selective O₂ Binding: Design Rules and Ambient Temperature O₂ Chemisorption in a Cobaltâ€“Triazolate Framework. Journal of the American Chemical Society, 2020, 142, 4317-4328.	13.7	67
8	Correlations, trends and potential biases among publicly accessible web-based student evaluations of teaching: a large-scale study of RateMyProfessors.com data. Assessment and Evaluation in Higher Education, 2018, 43, 31-44.	5.6	57
9	High-throughput predictions of metalâ€“organic framework electronic properties: theoretical challenges, graph neural networks, and data exploration. Npj Computational Materials, 2022, 8, .	8.7	43
10	Realizing the data-driven, computational discovery of metal-organic framework catalysts. Current Opinion in Chemical Engineering, 2022, 35, 100760.	7.8	28
11	Zr₆O₈ Node-Catalyzed Butene Hydrogenation and Isomerization in the Metalâ€“Organic Framework NU-1000. ACS Catalysis, 2020, 10, 14959-14970.	11.2	24
12	Supramolecular Porous Assemblies of Atomically Precise Catalytically Active Cerium-Based Clusters. Chemistry of Materials, 2020, 32, 8522-8529.	6.7	23
13	Comprehensive Phase Diagrams of MoS₂ Edge Sites Using Dispersion-Corrected DFT Free Energy Calculations. Journal of Physical Chemistry C, 2018, 122, 15318-15329.	3.1	18
14	Comparing GGA, GGA+U, and meta-GGA functionals for redox-dependent binding at open metal sites in metalâ€“organic frameworks. Journal of Chemical Physics, 2020, 152, 224101.	3.0	16
15	Highâ€Valent Metalâ€“Oxo Species at the Nodes of Metalâ€“Triazolate Frameworks: The Effects of Ligand Exchange and Twoâ€State Reactivity for Câ”H Bond Activation. Angewandte Chemie - International Edition, 2020, 59, 19494-19502.	13.8	14
16	Evidence for Copper Dimers in Low-Loaded CuO_x/SiO₂ Catalysts for Cyclohexane Oxidative Dehydrogenation. ACS Catalysis, 2018, 8, 9775-9789.	11.2	11
17	Highâ€Valent Metalâ€“Oxo Species at the Nodes of Metalâ€“Triazolate Frameworks: The Effects of Ligand Exchange and Twoâ€State Reactivity for Câ”H Bond Activation. Angewandte Chemie, 2020, 132, 19662-19670.	2.0	9
18	Topological effects on separation of alkane isomers in metalâ”organic frameworks. Fluid Phase Equilibria, 2020, 519, 112642.	2.5	8

#	Article	IF	Citations
19	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
20	Exploring mechanistic routes for light alkane oxidation with an ironâ€“triazolate metalâ€“organic framework. Physical Chemistry Chemical Physics, 2022, 24, 8129-8141.	2.8	6