Matthew P Sherburne

List of Publications by Year
in descending order

20	2,546	516561 16	752573 20
papers	citations	h-index	g-index

20	20	20	4020
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Lead-free germanium iodide perovskite materials for photovoltaic applications. Journal of Materials Chemistry A, 2015, 3, 23829-23832.	5.2	841
2	Exceptionally active iridium evolved from a pseudo-cubic perovskite for oxygen evolution in acid. Nature Communications, 2019, 10, 572.	5.8	254
3	Surface Composition Dependent Ligand Effect in Tuning the Activity of Nickelâ€“Copper Bimetallic Electrocatalysts toward Hydrogen Evolution in Alkaline. Journal of the American Chemical Society, 2020, 142, 7765-7775.	6.6	234
4	Computational Study of Halide Perovskite-Derived A₂BX₆ Inorganic Compounds: Chemical Trends in Electronic Structure and Structural Stability. Chemistry of Materials, 2017, 29, 7740-7749.	3.2	215
5	Morphology-Independent Stable White-Light Emission from Self-Assembled Two-Dimensional Perovskites Driven by Strong Excitonâ€“Phonon Coupling to the Organic Framework. Chemistry of Materials, 2017, 29, 3947-3953.	3.2	200
6	Rational Design: A High-Throughput Computational Screening and Experimental Validation Methodology for Lead-Free and Emergent Hybrid Perovskites. ACS Energy Letters, 2017, 2, 837-845.	8.8	187
7	High-throughput Computational Study of Halide Double Perovskite Inorganic Compounds. Chemistry of Materials, 2019, 31, 5392-5401.	3.2	102
8	Synergistic Effect of High-Frequency Ultrasound with Cupric Oxide Catalyst Resulting in a Selectivity Switch in Glucose Oxidation under Argon. Journal of the American Chemical Society, 2019, 141, 14772-14779.	6.6	77
9	Metalâ€“Oxygen Hybridization Determined Activity in Spinel-Based Oxygen Evolution Catalysts: A Case Study of ZnFe_{2â€“x}Cr_xO₄. Chemistry of Materials, 2018, 30, 6839-6848.	3.2	65
10	Interface Engineering of Graphene-Supported Cu Nanoparticles Encapsulated by Mesoporous Silica for Size-Dependent Catalytic Oxidative Coupling of Aromatic Amines. ACS Applied Materials & Interfaces, 2019, 11, 11722-11735.	4.0	64
11	An efficient hydrogenation catalytic model hosted in a stable hyper-crosslinked porous-organic-polymer: from fatty acid to bio-based alkane diesel synthesis. Green Chemistry, 2020, 22, 2049-2068.	4.6	61
12	Realizing Catalytic Acetophenone Hydrodeoxygenation with Palladium-Equipped Porous Organic Polymers. ACS Applied Materials & Interfaces, 2020, 12, 50550-50565.	4.0	55
13	Active Phase on SrCo_{1â€“x}Fe_xO_{3â^’Î´} (0 â‰¤ x â‰¤ 0.5) Perovskite for Water Oxidation: Reconstructed Surface versus Remaining Bulk. Jacs Au, 2021, 1, 108-115.	3.6	47
14	Tunable and low-loss correlated plasmons in Mott-like insulating oxides. Nature Communications, 2017, 8, 15271.	5.8	42
15	Vacancy-Ordered Double Perovskite Cs₂TeI₆ Thin Films for Optoelectronics. Chemistry of Materials, 2020, 32, 6676-6684.	3.2	41
16	A discussion on the possible involvement of singlet oxygen in oxygen electrocatalysis. JPhys Energy, 2021, 3, 031004.	2.3	31
17	Initial Application of Selectedâ€Ion Flowâ€Tube Mass Spectrometry to Realâ€Time Product Detection in Electrochemical CO₂ Reduction. Energy Technology, 2018, 6, 110-121.	1.8	13
18	Bistable Amphoteric Native Defect Model of Perovskite Photovoltaics. Journal of Physical Chemistry Letters, 2018, 9, 3878-3885.	2.1	12

#	Article	IF	Citations
19	The Bright Side and Dark Side of Hybrid Organicâ€“Inorganic Perovskites. Journal of Physical Chemistry C, 2020, 124, 27340-27355.	1.5	3
20	Photophysics of Localized Deep Defect States in Hybrid Organicâ€“Inorganic Perovskites. Journal of Physical Chemistry C, 2021, 125, 6975-6982.	1.5	2