## William David McCulloch

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Reversible Dendrite-Free Potassium Plating and Stripping Electrochemistry for Potassium Secondary Batteries. Journal of the American Chemical Society, 2017, 139, 9475-9478.	13.7	395
2	MoS2 as a long-life host material for potassium ion intercalation. Nano Research, 2017, 10, 1313-1321.	10.4	275
3	Potassium-Ion Oxygen Battery Based on a High Capacity Antimony Anode. ACS Applied Materials & Interfaces, 2015, 7, 26158-26166.	8.0	227
4	Aqueous Lithium–Iodine Solar Flow Battery for the Simultaneous Conversion and Storage of Solar Energy. Journal of the American Chemical Society, 2015, 137, 8332-8335.	13.7	149
5	Solar-powered electrochemical energy storage: an alternative to solar fuels. Journal of Materials Chemistry A, 2016, 4, 2766-2782.	10.3	109
6	Potassium Superoxide: A Unique Alternative for Metal–Air Batteries. Accounts of Chemical Research, 2018, 51, 2335-2343.	15.6	99
7	Concentrated Electrolyte for the Sodium–Oxygen Battery: Solvation Structure and Improved Cycle Life. Angewandte Chemie - International Edition, 2016, 55, 15310-15314.	13.8	97
8	Layer-transferred MoS2/GaN PN diodes. Applied Physics Letters, 2015, 107, .	3.3	69
9	High current density 2D/3D MoS2/GaN Esaki tunnel diodes. Applied Physics Letters, 2016, 109, .	3.3	65
10	pH-Tuning a Solar Redox Flow Battery for Integrated Energy Conversion and Storage. ACS Energy Letters, 2016, 1, 578-582.	17.4	55
11	Probing Mechanisms for Inverse Correlation between Rate Performance and Capacity in K–O <sub>2</sub> Batteries. ACS Applied Materials & Interfaces, 2017, 9, 4301-4308.	8.0	49
12	Greatly Enhanced Anode Stability in Kâ€Oxygen Batteries with an In Situ Formed Solvent―and Oxygenâ€Impermeable Protection Layer. Advanced Energy Materials, 2017, 7, .	19.5	34
13	Transferred large area single crystal MoS2 field effect transistors. Applied Physics Letters, 2015, 107, .	3.3	21
14	Bilayer Dye Protected Aqueous Photocathodes for Tandem Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2017, 121, 8787-8795.	3.1	21
15	Concentrated Electrolyte for the Sodium–Oxygen Battery: Solvation Structure and Improved Cycle Life. Angewandte Chemie, 2016, 128, 15536-15540.	2.0	20
16	Designing Potassium Battery Salts through a Solvent-in-Anion Concept for Concentrated Electrolytes and Mimicking Solvation Structures. Chemistry of Materials, 2020, 32, 10423-10434.	6.7	16
17	A self-limiting layer-by-layer etching technique for 2H-MoS <sub>2</sub> . Applied Physics Express, 2017, 10, 035201.	2.4	15
18	Alkaliâ€Oxygen Batteries Based on Reversible Superoxide Chemistry. Chemistry - A European Journal, 2018. 24. 17627-17637.	3.3	13

#	Article	IF	CITATIONS
19	Use of Polarization Curves and Impedance Analyses to Optimize the "Triple-Phase Boundary―in K–O2 Batteries. ACS Applied Materials & Interfaces, 2019, 11, 2925-2934.	8.0	10
20	K <sup>+</sup> Single Cation Ionic Liquids Electrolytes with Low Melting Asymmetric Salt. Journal of Physical Chemistry C, 2022, 126, 11407-11413.	3.1	8
21	Unusual Melting Trend in an Alkali Asymmetric Sulfonamide Salt Series: Single-Crystal Analysis and Modeling. Inorganic Chemistry, 2021, 60, 14679-14686.	4.0	5
22	Exploring Thermal Properties of MOS2 Using In Situ Quantitative STEM. Microscopy and Microanalysis, 2016, 22, 912-913.	0.4	0
23	Frontispiece: Alkali-Oxygen Batteries Based on Reversible Superoxide Chemistry. Chemistry - A European Journal, 2018, 24, .	3.3	0