

Matthew G Boebinger

List of Publications by Year in descending order

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932766

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g-index

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19
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1516
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of FeF ₃ -Based Sodium-Ion Batteries in Nonflammable Ionic Liquid Electrolytes at Room and Elevated Temperatures. ACS Applied Materials & Interfaces, 2022, 14, 33447-33456.	4.0	5
2	Designing Atomic Edge Structures in 2D Transition Metal Dichalcogenides for Improved Catalytic Activity. Microscopy and Microanalysis, 2021, 27, 964-965.	0.2	0
3	In Situ TEM Investigation of Lithium Intercalation in Ti ₃ C ₂ T _X MXenes for Energy Storage Applications. Microscopy and Microanalysis, 2021, 27, 2736-2737.	0.2	5
4	Atomic-scale Feedback-controlled Electron Beam Fabrication of 2D Materials. Microscopy and Microanalysis, 2021, 27, 3072-3073.	0.2	0
5	In Situ TEM Investigation of the Spontaneous Hollowing of Alloy Anode Nanocrystals. Microscopy and Microanalysis, 2021, 27, 1972-1973.	0.2	0
6	Understanding Transformations in Battery Materials Using in Situ and Operando Experiments: Progress and Outlook. ACS Energy Letters, 2020, 5, 335-345.	8.8	82
7	In Situ Dynamics during Heating of Copper-Intercalated Bismuth Telluride. Matter, 2020, 3, 1246-1262.	5.0	16
8	Spontaneous and reversible hollowing of alloy anode nanocrystals for stable battery cycling. Nature Nanotechnology, 2020, 15, 475-481.	15.6	68
9	Silicon-Core@Carbon-Shell Nanoparticles for Lithium-Ion Batteries: Rational Comparison between Amorphous and Graphitic Carbon Coatings. Nano Letters, 2019, 19, 7236-7245.	4.5	75
10	Interphase Morphology between a Solid-State Electrolyte and Lithium Controls Cell Failure. ACS Energy Letters, 2019, 4, 591-599.	8.8	168
11	The Effect of Nickel on MoS ₂ Growth Revealed with <i>in Situ</i> Transmission Electron Microscopy. ACS Nano, 2019, 13, 7117-7126.	7.3	48
12	Solid-State Route for the Synthesis of Scalable, Luminescent Silicon and Germanium Nanocrystals. ChemNanoMat, 2018, 4, 423-429.	1.5	4
13	Operando Synchrotron Measurement of Strain Evolution in Individual Alloying Anode Particles within Lithium Batteries. ACS Energy Letters, 2018, 3, 349-355.	8.8	32
14	Seeded Nanowire and Microwire Growth from Lithium Alloys. Nano Letters, 2018, 18, 4331-4337.	4.5	6
15	Avoiding Fracture in a Conversion Battery Material through Reaction with Larger Ions. Joule, 2018, 2, 1783-1799.	11.7	65
16	In situ investigation of dynamic processes in materials for energy storage., 2018, , .		0
17	Distinct nanoscale reaction pathways in a sulfide material for sodium and lithium batteries. Journal of Materials Chemistry A, 2017, 5, 11701-11709.	5.2	51
18	In Situ XPS Investigation of Transformations at Crystallographically Oriented MoS ₂ Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 32394-32404.	4.0	141

#	ARTICLE	IF	CITATIONS
19	Reversible Tuning of the Surface Plasmon Resonance of Indium Tin Oxide Nanocrystals by Gas-Phase Oxidation and Reduction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15970-15976.	1.5	10