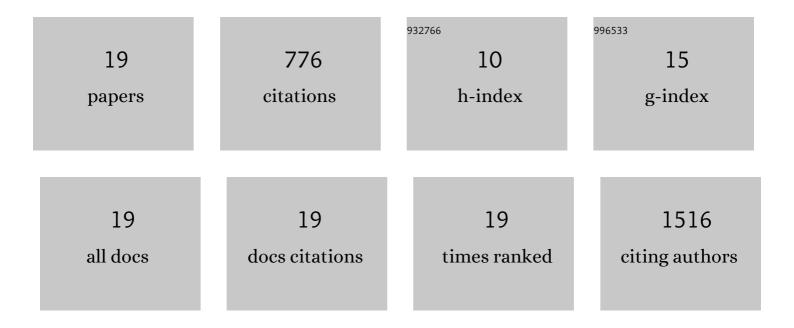
Matthew G Boebinger

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Interphase Morphology between a Solid-State Electrolyte and Lithium Controls Cell Failure. ACS Energy Letters, 2019, 4, 591-599. | 8.8 | 168 |
| 2 | In Situ XPS Investigation of Transformations at Crystallographically Oriented MoS ₂ Interfaces. ACS Applied Materials & Interfaces, 2017, 9, 32394-32404. | 4.0 | 141 |
| 3 | Understanding Transformations in Battery Materials Using in Situ and Operando Experiments: Progress and Outlook. ACS Energy Letters, 2020, 5, 335-345. | 8.8 | 82 |
| 4 | 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 |
| 5 | Spontaneous and reversible hollowing of alloy anode nanocrystals for stable battery cycling. Nature Nanotechnology, 2020, 15, 475-481. | 15.6 | 68 |
| 6 | Avoiding Fracture in a Conversion Battery Material through Reaction with Larger Ions. Joule, 2018, 2, 1783-1799. | 11.7 | 65 |
| 7 | 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 |
| 8 | 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 |
| 9 | Operando Synchrotron Measurement of Strain Evolution in Individual Alloying Anode Particles within Lithium Batteries. ACS Energy Letters, 2018, 3, 349-355. | 8.8 | 32 |
| 10 | In Situ Dynamics during Heating of Copper-Intercalated Bismuth Telluride. Matter, 2020, 3, 1246-1262. | 5.0 | 16 |
| 11 | Reversible Tuning of the Surface Plasmon Resonance of Indium Tin Oxide Nanocrystals by Gas-Phase Oxidation and Reduction. Journal of Physical Chemistry C, 2017, 121, 15970-15976. | 1.5 | 10 |
| 12 | Seeded Nanowire and Microwire Growth from Lithium Alloys. Nano Letters, 2018, 18, 4331-4337. | 4.5 | 6 |
| 13 | 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 |
| 14 | 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 |
| 15 | Solidâ€State Route for the Synthesis of Scalable, Luminescent Silicon and Germanium Nanocrystals. ChemNanoMat, 2018, 4, 423-429. | 1.5 | 4 |
| 16 | Designing Atomic Edge Structures in 2D Transition Metal Dichalcogenides for Improved Catalytic Activity. Microscopy and Microanalysis, 2021, 27, 964-965. | 0.2 | 0 |
| 17 | Atomic-scale Feedback-controlled Electron Beam Fabrication of 2D Materials. Microscopy and Microanalysis, 2021, 27, 3072-3073. | 0.2 | 0 |
| 18 | In Situ TEM Investigation of the Spontaneous Hollowing of Alloy Anode Nanocrystals. Microscopy and Microanalysis, 2021, 27, 1972-1973. | 0.2 | 0 |

| # Article | IF | CITATIONS |
|--|----|-----------|
| 19 In situ investigation of dynamic processes in materials for energy storage. , 2018, , . | | 0 |