

# Ryan H Deblock

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

2,642  
citations

758635

12  
h-index

752256

20  
g-index

24  
all docs

24  
docs citations

24  
times ranked

4321  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Achieving high energy density and high power density with pseudocapacitive materials. <i>Nature Reviews Materials</i> , 2020, 5, 5-19.   | 23.3 | 1,138     |
| 2  | Polymer-modified halide perovskite films for efficient and stable planar heterojunction solar cells. <i>Science Advances</i> , 2017, 3, e1700106.  | 4.7  | 588       |
| 3  | Sulfide Solid Electrolytes for Lithium Battery Applications. <i>Advanced Energy Materials</i> , 2018, 8, 1800933.  | 10.2 | 407       |
| 4  | Pseudocapacitive Vanadium-based Materials toward High-Rate Sodium-Ion Storage. <i>Energy and Environmental Materials</i> , 2020, 3, 221-234.   | 7.3  | 95        |
| 5  | NASICON Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> Enables Quasi-Two-Stage Na <sup>+</sup> and Zn <sup>2+</sup> Intercalation for Multivalent Zinc Batteries. <i>Chemistry of Materials</i> , 2020, 32, 3028-3035. | 3.2  | 75        |
| 6  | High-rate capability of Na <sub>2</sub> FePO <sub>4</sub> F nanoparticles by enhancing surface carbon functionality for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18707-18715.                              | 5.2  | 70        |
| 7  | A Metal-Organic Framework with Tetrahedral Aluminate Sites as a Single-Ion Li <sup>+</sup> Solid Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16683-16687.  | 7.2  | 65        |
| 8  | Patternable, Solution-Processed Ionogels for Thin-Film Lithium-Ion Electrolytes. <i>Joule</i> , 2017, 1, 344-358.  | 11.7 | 52        |
| 9  | Wafer-Scale Black Arsenic-Phosphorus Thin-Film Synthesis Validated with Density Functional Perturbation Theory Predictions. <i>ACS Applied Nano Materials</i> , 2018, 1, 4737-4745.  | 2.4  | 42        |
| 10 | In-Operando Calorimetric Measurements for Activated Carbon Electrodes in Ionic Liquid Electrolytes under Large Potential Windows. <i>ChemSusChem</i> , 2020, 13, 1013-1026.  | 3.6  | 19        |
| 11 | Heat generation in electric double layer capacitors with neat and diluted ionic liquid electrolytes under large potential window between 5 and 80°C. <i>Journal of Power Sources</i> , 2021, 488, 229368.                              | 4.0  | 16        |
| 12 | Carbon nanofoam paper enables high-rate and high-capacity Na-ion storage. <i>Energy Storage Materials</i> , 2019, 21, 481-486.   | 9.5  | 15        |
| 13 | Capacity and phase stability of metal-substituted Ni-Ni(OH) <sub>2</sub> nanosheets in aqueous Ni-Zn batteries. <i>Materials Advances</i> , 2021, 2, 3060-3074.  | 2.6  | 13        |
| 14 | Electrochemical and Spectroscopic Analysis of the Ionogel-Electrode Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 12088-12097.  | 4.0  | 12        |
| 15 | Elucidating zinc-ion battery mechanisms in freestanding carbon electrode architectures decorated with nanocrystalline ZnMn <sub>2</sub> O <sub>4</sub> . <i>Materials Advances</i> , 2021, 2, 2730-2738.                               | 2.6  | 9         |
| 16 | A Metal-Organic Framework with Tetrahedral Aluminate Sites as a Single-Ion Li <sup>+</sup> Solid Electrolyte. <i>Angewandte Chemie</i> , 2018, 130, 16925-16929.   | 1.6  | 8         |
| 17 | Siloxane-Modified, Silica-Based Ionogel as a Pseudosolid Electrolyte for Sodium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 154-163.   | 2.5  | 7         |
| 18 | Optimizing Electrodeposited Manganese Oxide at Carbon Cloth Electrodes for Harvesting Salinity-Gradient Energy. <i>Journal of the Electrochemical Society</i> , 2021, 168, 024505.   | 1.3  | 5         |

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|----|---|-----|-----------|
| 19 | CeO <sub>2</sub> Aerogel-Induced Resilience of Catalytic Ni(OH) <sub>2</sub> under Oxidizing Conditions. Chemistry of Materials, 0, , .                                     | 3.2 | 3         |
| 20 | Sodiation-Induced Electrochromism in Carbon Nanofoamâ€“Paper Electrodes. Journal of the Electrochemical Society, 2022, 169, 060514.   | 1.3 | 2         |
| 21 | Enhancing Li-ion capacity and rate capability in cation-defective vanadium ferrite aerogels via aluminum substitution. RSC Advances, 2021, 11, 14495-14503.                 | 1.7 | 1         |
| 22 | Enhancing Li-Ion Charge Storage in Disordered Vanadium Ferrite Aerogels via Multivalent Substitution. ECS Meeting Abstracts, 2021, MA2021-02, 222-222.                      | 0.0 | 0         |
| 23 | Carbon Fiber-Paper Supported Carbon Nanofoams As Device-Ready Electrode Architectures for Sodium-Ion Batteries. ECS Meeting Abstracts, 2021, MA2021-02, 413-413.            | 0.0 | 0         |
| 24 | (Invited) Sustainability, Safety, Scalability, Rechargeability, and Manufacturability Courtesy of Architected Zinc Anodes. ECS Meeting Abstracts, 2022, MA2022-01, 456-456. | 0.0 | 0         |