

# 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	Sodiation-Induced Electrochromism in Carbon Nanofoamâ€‘Paper Electrodes. Journal of the Electrochemical Society, 2022, 169, 060514.	1.3	2
2	(Invited) Sustainability, Safety, Scalability, Rechargeability, and Manufacturability Courtesy of Architected Zinc Anodes. ECS Meeting Abstracts, 2022, MA2022-01, 456-456.	0.0	0
3	Capacity and phase stability of metal-substituted $\text{Ni}^{\pm}(\text{OH})_2$ nanosheets in aqueous $\text{Ni}^{\pm}\text{Zn}$ batteries. Materials Advances, 2021, 2, 3060-3074.	2.6	13
4	Elucidating zinc-ion battery mechanisms in freestanding carbon electrode architectures decorated with nanocrystalline $\text{ZnMn}_2\text{O}_4$ . Materials Advances, 2021, 2, 2730-2738.	2.6	9
5	Optimizing Electrodeposited Manganese Oxide at Carbon Cloth Electrodes for Harvesting Salinity-Gradient Energy. Journal of the Electrochemical Society, 2021, 168, 024505.	1.3	5
6	Heat generation in electric double layer capacitors with neat and diluted ionic liquid electrolytes under large potential window between 5 and 80Â°C. Journal of Power Sources, 2021, 488, 229368.	4.0	16
7	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
8	Siloxane-Modified, Silica-Based Ionogel as a Pseudosolid Electrolyte for Sodium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 154-163.	2.5	7
9	Enhancing Li-Ion Charge Storage in Disordered Vanadium Ferrite Aerogels via Multivalent Substitution. ECS Meeting Abstracts, 2021, MA2021-02, 222-222.	0.0	0
10	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
11	Achieving high energy density and high power density with pseudocapacitive materials. Nature Reviews Materials, 2020, 5, 5-19.	23.3	1,138
12	$\text{In}^{\pm}$ Operando Calorimetric Measurements for Activated Carbon Electrodes in Ionic Liquid Electrolytes under Large Potential Windows. ChemSusChem, 2020, 13, 1013-1026.	3.6	19
13	Pseudocapacitive Vanadium-based Materials toward High-Rate Sodium-Ion Storage. Energy and Environmental Materials, 2020, 3, 221-234.	7.3	95
14	NASICON $\text{Na}_3\text{V}_2(\text{PO}_4)_3$ Enables Quasi-Two-Stage $\text{Na}^+$ and $\text{Zn}^{2+}$ Intercalation for Multivalent Zinc Batteries. Chemistry of Materials, 2020, 32, 3028-3035.	3.2	75
15	Carbon nanofoam paper enables high-rate and high-capacity Na-ion storage. Energy Storage Materials, 2019, 21, 481-486.	9.5	15
16	Electrochemical and Spectroscopic Analysis of the Ionogelâ€‘Electrode Interface. ACS Applied Materials & Interfaces, 2019, 11, 12088-12097.	4.0	12
17	A Metal-Organic Framework with Tetrahedral Aluminate Sites as a Single-Ion $\text{Li}^+$ Solid Electrolyte. Angewandte Chemie, 2018, 130, 16925-16929.	1.6	8
18	A Metal-Organic Framework with Tetrahedral Aluminate Sites as a Single-Ion $\text{Li}^+$ Solid Electrolyte. Angewandte Chemie - International Edition, 2018, 57, 16683-16687.	7.2	65

#	ARTICLE	IF	CITATIONS
19	Sulfide Solid Electrolytes for Lithium Battery Applications. <i>Advanced Energy Materials</i> , 2018, 8, 1800933.	10.2	407
20	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
21	Patternable, Solution-Processed Ionogels for Thin-Film Lithium-Ion Electrolytes. <i>Joule</i> , 2017, 1, 344-358.	11.7	52
22	Polymer-modified halide perovskite films for efficient and stable planar heterojunction solar cells. <i>Science Advances</i> , 2017, 3, e1700106.	4.7	588
23	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
24	CeO <sub>2</sub> Aerogel-Induced Resilience of Catalytic Ni(OH) <sub>2</sub> under Oxidizing Conditions. <i>Chemistry of Materials</i> , 0, , .	3.2	3