Alexander B Brady

List of Publications by Year
in descending order

28 papers	663 citations	687220 13 h-index	552653 26 g-index
28 all docs	28 docs citations	28 times ranked	962 citing authors

#	Article	IF	Citations
1	Structural Defects of Silver Hollandite, Ag_xMn₈O_{y,} Nanorods: Dramatic Impact on Electrochemistry. ACS Nano, 2015, 9, 8430-8439.	7.3	81
2	Magnesium-ion battery-relevant electrochemistry of MgMn₂O₄: crystallite size effects and the notable role of electrolyte water content. Chemical Communications, 2017, 53, 3665-3668.	2.2	79
3	Investigation of Î±-MnO₂ Tunneled Structures as Model Cation Hosts for Energy Storage. Accounts of Chemical Research, 2018, 51, 575-582.	7.6	64
4	Probing the Li Insertion Mechanism of ZnFe₂O₄ in Li-Ion Batteries: A Combined X-Ray Diffraction, Extended X-Ray Absorption Fine Structure, and Density Functional Theory Study. Chemistry of Materials, 2017, 29, 4282-4292.	3.2	62
5	Ultra-efficient polymer binder for silicon anode in high-capacity lithium-ion batteries. Nano Energy, 2020, 73, 104804.	8.2	57
6	Pre-Sodiated Ti₃C₂T_x MXene Structure and Behavior as Electrode for Sodium-Ion Capacitors. ACS Nano, 2021, 15, 2994-3003.	7.3	54
7	Investigation of Structural Evolution of Li_{1.1}V₃O₈ by In Situ X-ray Diffraction and Density Functional Theory Calculations. Chemistry of Materials, 2017, 29, 2364-2373.	3.2	40
8	Multiscale and Multimodal Characterization of 2D Titanium Carbonitride MXene. Advanced Materials Interfaces, 2020, 7, 1902207.	1.9	35
9	Redox chemistry of a binary transition metal oxide (AB₂O₄): a study of the Cu²⁺/Cu⁰ and Fe³⁺/Fe⁰ interconversions observed upon lithiation in a CuFe₂O₄ battery using X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 16930-16940.	1.3	21
10	Electrochemical reduction of an Ag₂VO₂PO₄particle: dramatic increase of local electronic conductivity. Physical Chemistry Chemical Physics, 2015, 17, 11204-11210.	1.3	19
11	Fast Proton Insertion in Layered H₂W₂O₇ via Selective Etching of an Aurivillius Phase. Advanced Energy Materials, 2021, 11, .	10.2	16
12	Hybrid Ag₂VO₂PO₄/CF_xas a High Capacity and Energy Cathode for Primary Batteries. Journal of the Electrochemical Society, 2017, 164, A2457-A2467.	1.3	14
13	Unveiling the Structural Evolution of Ag_{1.2}Mn₈O₁₆ under Coulombically Controlled (De)Lithiation. Chemistry of Materials, 2018, 30, 366-375.	3.2	14
14	Transition Metal Substitution of Hollandite Î±-MnO₂: Enhanced Potential and Structural Stability on Lithiation from First-Principles Calculation. Journal of Physical Chemistry C, 2019, 123, 25042-25051.	1.5	14
15	Energy-Dispersive X-ray Diffraction: Operando Visualization of Electrochemical Activity of Thick Electrodes. Journal of Physical Chemistry C, 2019, 123, 18834-18843.	1.5	12
16	Essential Role of Spinel MgFe₂O₄ Surfaces during Discharge. Journal of the Electrochemical Society, 2020, 167, 090506.	1.3	11
17	Temporally and Spatially Resolved Visualization of Electrochemical Conversion: Monitoring Phase Distribution During Lithiation of Magnetite (Fe₃O₄) Electrodes. ACS Applied Energy Materials, 2019, 2, 2561-2569.	2.5	10
18	Lithium Vanadium Oxide (Li_{1.1}V₃O₈) Coated with Amorphous Lithium Phosphorous Oxynitride (LiPON): Role of Material Morphology and Interfacial Structure on Resulting Electrochemistry. Journal of the Electrochemical Society, 2017, 164, A1503-A1513.	1.3	9

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19	Electrochemical (de)lithiation of silver ferrite and composites: mechanistic insights from ex situ, in situ, and operando X-ray techniques. Physical Chemistry Chemical Physics, 2017, 19, 22329-22343.	1.3	9
20	Capacity Retention for (De)lithiation of Silver Containing Î±-MnO₂: Impact of Structural Distortion and Transition Metal Dissolution. Journal of the Electrochemical Society, 2018, 165, A2849-A2858.	1.3	9
21	Local molecular environment drives speciation and reactivity of ion complexes in concentrated salt solution. Journal of Molecular Liquids, 2021, 340, 116898.	2.3	8
22	Electrode Reaction Mechanism of Ag₂VO₂PO₄ Cathode. Chemistry of Materials, 2016, 28, 3428-3434.	3.2	6
23	The Effect of Silver Ion Occupancy on Hollandite Lattice Structure. MRS Advances, 2018, 3, 547-552.	0.5	6
24	Deliberately Designed Atomic-Level Silver-Containing Interface Results in Improved Rate Capability and Utilization of Silver Hollandite for Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 400-407.	4.0	5
25	Tomographic 3D Analysis of Reduction Displacement Reaction with Associated Formation of a Conductive Network in High Energy Primary Batteries. Journal of the Electrochemical Society, 2019, 166, A3210-A3216.	1.3	4
26	Vanadium-Substituted Tunnel Structured Silver Hollandite (Ag_{1.2}V_xMn_{8â€“x}O₁₆): Impact on Morphology and Electrochemistry. Inorganic Chemistry, 2020, 59, 3783-3793.	1.9	4
27	Synchotron Enabled Ex-Situ and in-Situ Mechanistic Interrogation of Energy Storage Systems. ECS Transactions, 2014, 61, 1-8.	0.3	0
28	Structural Investigation of Silver Vanadium Phosphorus Oxide (Ag2VO2PO4) and Its Reduction Products. Chemistry of Materials, 2021, 33, 4425-4434.	3.2	0