William R Brant

List of Publications by Year
in descending order

28	869	759233 12	580821 25
papers	citations	h-index	g-index

31	31	31	1290
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rechargeability of aqueous sulfate Zn/MnO2 batteries enhanced by accessible Mn2+ ions. Energy Storage Materials, 2018, 15, 351-360.	18.0	211
2	2021 roadmap for sodium-ion batteries. JPhys Energy, 2021, 3, 031503.	5.3	125
3	Selective Control of Composition in Prussian White for Enhanced Material Properties. Chemistry of Materials, 2019, 31, 7203-7211.	6.7	86
4	Understanding the Roles of Tris(trimethylsilyl) Phosphite (TMSPi) in LiNi_{0.8}Mn_{0.1}Co_{0.1}O₂ (NMC811)/Siliconâ€“Graphite (Siâ€“Gr) Lithiumâ€ion Batteries. Advanced Materials Interfaces, 2020, 7, 2000277.	3.7	56
5	Moisture-Driven Degradation Pathways in Prussian White Cathode Material for Sodium-Ion Batteries. ACS Applied Materials & Interfaces, 2021, 13, 10054-10063.	8.0	47
6	Simultaneous Monitoring of Crystalline Active Materials and Resistance Evolution in Lithiumâ€“Sulfur Batteries. Journal of the American Chemical Society, 2020, 142, 1449-1456.	13.7	42
7	Cation Ordering and Oxygen Release in LiNi_{0.5â€“x}Mn_{1.5+x}O_{4â€“y} (LNMO): In Situ Neutron Diffraction and Performance in Li Ion Full Cells. ACS Applied Energy Materials, 2019, 2, 3323-3335.	5.1	39
8	Towards an Understanding of Li₂O₂ Evolution in Liâ€“O₂ Batteries: An Inâ€…Operando Synchrotron Xâ€ray Diffraction Study. ChemSusChem, 2017, 10, 1592-1599.	6.8	29
9	On the Stability of NaO₂ in Naâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2018, 10, 13534-13541.	8.0	29
10	Influence of sodium content on the thermal behavior of low vacancy Prussian white cathode material. Dalton Transactions, 2020, 49, 3570-3579.	3.3	27
11	Growth of NaO₂ in Highly Efficient Naâ€“O₂ Batteries Revealed by Synchrotron In Operando X-ray Diffraction. ACS Energy Letters, 2017, 2, 2440-2444.	17.4	23
12	Influence of Synthesis Routes on the Crystallography, Morphology, and Electrochemistry of Li₂MnO₃. ACS Applied Materials & Interfaces, 2020, 12, 5939-5950.	8.0	20
13	Synthetic Pathway Determines the Nonequilibrium Crystallography of Li- and Mn-Rich Layered Oxide Cathode Materials. ACS Applied Energy Materials, 2021, 4, 1924-1935.	5.1	15
14	Octahedral tilting in Prussian blue analogues. Journal of Materials Chemistry C, 2022, 10, 13690-13699.	5.5	15
15	Shortâ€range ordering in the Liâ€rich disordered rock salt cathode material Li 2 VO 2 F revealed by Raman spectroscopy. Journal of Raman Spectroscopy, 2020, 51, 2095-2101.	2.5	13
16	Rapid Lithium Insertion and Location of Mobile Lithium in the Defect Perovskite Li_{0.18}Sr_{0.66}Ti_{0.5}Nb_{0.5}O₃. ChemPhysChem, 2012, 13, 2293-2296.	2.1	12
17	Temperature and composition dependent structural investigation of the defect perovskite series Sr1â^'xTi1â^'2xNb2xO3, 0â‰¤xâ‰¤0.2. Journal of Solid State Chemistry, 2010, 183, 1998-2003.	2.9	11
18	Neutron Pair Distribution Function Study of FePO4 and LiFePO4. Chemistry of Materials, 2019, 31, 5024-5034.	6.7	11

#	Article	IF	Citations
19	Understanding the Impact of Precipitation Kinetics on the Electrochemical Performance of Lithiumâ€“Sulfur Batteries by Operando X-ray Diffraction. Journal of Physical Chemistry C, 0, , .	3.1	8
20	Synthesisâ€“structure relationships in Li- and Mn-rich layered oxides: phase evolution, superstructure ordering and stacking faults. Dalton Transactions, 2022, 51, 4435-4446.	3.3	8
21	Tailoring phase transition temperatures in perovskites via A-site vacancy generation. Dalton Transactions, 2017, 46, 7253-7260.	3.3	7
22	Design and Operation of an Operando Synchrotron Diffraction Cell Enabling Fast Cycling of Battery Materials. Batteries and Supercaps, 0, , .	4.7	7
23	Monitoring Li_xFeSO₄F (x = 1, 0.5, 0) Phase Distributions in Operando To Determine Reaction Homogeneity in Porous Battery Electrodes. Chemistry of Materials, 2017, 29, 7159-7169.	6.7	6
24	Novel insight into the structure and properties of lead-free dielectric Sr₃TiNb₄O₁₅. Journal of Materials Chemistry C, 2018, 6, 8890-8896.	5.5	5
25	Temperature Dependence of Electrochemical Degradation in LiNi_{1/3}Mn_{1/3}Co_{1/3}O₂/Li₄Ti₅O₁₂ Cells. Energy Technology, 2019, 7, 1900310.	3.8	5
26	In Situ Neutron Powder Diffraction Using Custom-made Lithium-ion Batteries. Journal of Visualized Experiments, 2014, , e52284.	0.3	4
27	Impact of Compression on the Electrochemical Performance of the Sulfur/Carbon Composite Electrode in Lithiumâ€Sulfur Batteries. Batteries and Supercaps, 2022, 5, .	4.7	3
28	Investigation of Valence Mixing in Sodium-Ion Battery Cathode Material Prussian White by MÃ¶ssbauer Spectroscopy. Frontiers in Energy Research, 0, 10, .	2.3	2