

William R Brant

List of Publications by Year in descending order

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docs citations

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1290
citing authors

#	ARTICLE	IF	CITATIONS
1	Octahedral tilting in Prussian blue analogues. Journal of Materials Chemistry C, 2022, 10, 13690-13699.	5.5	15
2	Synthesis-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
3	Impact of Compression on the Electrochemical Performance of the Sulfur/Carbon Composite Electrode in Lithium-Sulfur Batteries. Batteries and Supercaps, 2022, 5, .	4.7	3
4	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
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	2021 roadmap for sodium-ion batteries. JPhys Energy, 2021, 3, 031503.	5.3	125
7	Influence of Synthesis Routes on the Crystallography, Morphology, and Electrochemistry of $\text{Li}_{2/3}\text{MnO}_3$. ACS Applied Materials & Interfaces, 2020, 12, 5939-5950.	8.0	20
8	Simultaneous Monitoring of Crystalline Active Materials and Resistance Evolution in Lithium-Sulfur Batteries. Journal of the American Chemical Society, 2020, 142, 1449-1456.	13.7	42
9	Short-range ordering in the Li-rich disordered rock salt cathode material $\text{Li}_2\text{VO}_2\text{F}$ revealed by Raman spectroscopy. Journal of Raman Spectroscopy, 2020, 51, 2095-2101.	2.5	13
10	Understanding the Roles of Tris(trimethylsilyl) Phosphite (TMSPi) in $\text{Li}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ (NMC811)/Silicon-Graphite (Si-Gr) Lithium-Ion Batteries. Advanced Materials Interfaces, 2020, 7, 2000277.	3.7	56
11	Influence of sodium content on the thermal behavior of low vacancy Prussian white cathode material. Dalton Transactions, 2020, 49, 3570-3579.	3.3	27
12	Selective Control of Composition in Prussian White for Enhanced Material Properties. Chemistry of Materials, 2019, 31, 7203-7211.	6.7	86
13	Temperature Dependence of Electrochemical Degradation in $\text{Li}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2/\text{Li}_4\text{Ti}_5\text{O}_{13}$ Cells. Energy Technology, 2019, 7, 1900310.	3.2	5
14	Neutron Pair Distribution Function Study of FePO_4 and LiFePO_4 . Chemistry of Materials, 2019, 31, 5024-5034.	6.7	11
15	Cation Ordering and Oxygen Release in $\text{Li}_{0.5}\text{Mn}_{1.5}\text{O}_4$ (LNMO): In Situ Neutron Diffraction and Performance in Li Ion Full Cells. ACS Applied Energy Materials, 2019, 2, 3323-3335.	5.1	39
16	On the Stability of NaO_2 in NaO_2 Batteries. ACS Applied Materials & Interfaces, 2018, 10, 13534-13541.	8.0	29
17	Rechargeability of aqueous sulfate Zn/MnO ₂ batteries enhanced by accessible Mn ²⁺ ions. Energy Storage Materials, 2018, 15, 351-360.	18.0	211
18	Novel insight into the structure and properties of lead-free dielectric $\text{Sr}_3\text{TiNb}_4\text{O}_{15}$. Journal of Materials Chemistry C, 2018, 6, 8890-8896.	5.5	5

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19	Towards an Understanding of Li_2O Evolution in Li^+O_2 Batteries: An In-Operando Synchrotron X-ray Diffraction Study. <i>ChemSusChem</i> , 2017, 10, 1592-1599.	6.8	29
20	Tailoring phase transition temperatures in perovskites via A-site vacancy generation. <i>Dalton Transactions</i> , 2017, 46, 7253-7260.	3.3	7
21	Growth of NaO_2 in Highly Efficient Na^+O_2 Batteries Revealed by Synchrotron In Operando X-ray Diffraction. <i>ACS Energy Letters</i> , 2017, 2, 2440-2444.	17.4	23
22	Monitoring $\text{Li}_x\text{FeSO}_4\text{F}$ ($x = 1, 0.5, 0$) Phase Distributions in Operando To Determine Reaction Homogeneity in Porous Battery Electrodes. <i>Chemistry of Materials</i> , 2017, 29, 7159-7169.	6.7	6
23	In Situ Neutron Powder Diffraction Using Custom-made Lithium-ion Batteries. <i>Journal of Visualized Experiments</i> , 2014, , e52284.	0.3	4
24	Rapid Lithium Insertion and Location of Mobile Lithium in the Defect Perovskite $\text{Li}_{0.18}\text{Sr}_{0.66}\text{Ti}_{0.5}\text{Nb}_{0.5}\text{O}_3$. <i>ChemPhysChem</i> , 2012, 13, 2293-2296.	2.1	12
25	Temperature and composition dependent structural investigation of the defect perovskite series $\text{Sr}_{1-x}\text{Ti}_{1-2x}\text{Nb}_2\text{O}_3$, $0 \leq x \leq 0.2$. <i>Journal of Solid State Chemistry</i> , 2010, 183, 1998-2003.	2.9	11
26	Design and Operation of an Operando Synchrotron Diffraction Cell Enabling Fast Cycling of Battery Materials. <i>Batteries and Supercaps</i> , 0, , .	4.7	7
27	Understanding the Impact of Precipitation Kinetics on the Electrochemical Performance of Lithium-Sulfur Batteries by Operando X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	8
28	Investigation of Valence Mixing in Sodium-Ion Battery Cathode Material Prussian White by Mössbauer Spectroscopy. <i>Frontiers in Energy Research</i> , 0, 10, .	2.3	2