

Christopher Johnson

List of Publications by Year in descending order

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58
papers

11,568
citations

101384

36
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155451

55
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62
all docs

62
docs citations

62
times ranked

10707
citing authors

#	ARTICLE	IF	CITATIONS
1	Cathode pre-lithiation/sodiation for next-generation batteries. <i>Current Opinion in Electrochemistry</i> , 2022, 31, 100827.	2.5	18
2	Effect of Electrolytes on the Cathode-Electrolyte Interfacial Stability of Fe-Based Layered Cathodes for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2022, 169, 030536.	1.3	10
3	Synthesis of high-density olivine LiFePO ₄ from paleozoic siderite FeCO ₃ and its electrochemical performance in lithium batteries. <i>APL Materials</i> , 2022, 10, .	2.2	4
4	Sequential Fe Reduction, Involving Two Different Fe ⁺ Intermediates, in the Conversion Reaction of Prussian Blue in Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2022, 34, 4660-4671.	3.2	0
5	Theory-guided experimental design in battery materials research. <i>Science Advances</i> , 2022, 8, eabm2422.	4.7	52
6	Critical Evaluation of Potentiostatic Holds as Accelerated Predictors of Capacity Fade during Calendar Aging. <i>Journal of the Electrochemical Society</i> , 2022, 169, 050531.	1.3	16
7	Unraveling the formation mechanism of NaCoPO ₄ polymorphs. <i>Journal of Solid State Chemistry</i> , 2021, 293, 121766.	1.4	4
8	New High-Performance Pb-Based Nanocomposite Anode Enabled by Wide-Range Pb Redox and Zintl Phase Transition. <i>Advanced Functional Materials</i> , 2021, 31, 2005362.	7.8	6
9	Dual functionality of over-lithiated NMC for high energy silicon-based lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12818-12829.	5.2	16
10	Calendar aging of silicon-containing batteries. <i>Nature Energy</i> , 2021, 6, 866-872.	19.8	137
11	Li ₂ O-Based Cathode Additives Enabling Prelithiation of Si Anodes. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 12027.	1.3	12
12	Kinetically Stable Oxide Overlayers on Mo ₃ P Nanoparticles Enabling Lithium-Air Batteries with Low Overpotentials and Long Cycle Life. <i>Advanced Materials</i> , 2020, 32, e2004028.	11.1	42
13	Graphite Lithiation under Fast Charging Conditions: Atomistic Modeling Insights. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8162-8169.	1.5	18
14	Beneficial Effect of Li ₅ FeO ₄ Lithium Source for Li-Ion Batteries with a Layered NMC Cathode and Si Anode. <i>Journal of the Electrochemical Society</i> , 2020, 167, 160543.	1.3	27
15	Investigating Surface Structure, Chemistry, and Thickness of NMC Cathodes Blended with LFO using EELS. <i>Microscopy and Microanalysis</i> , 2019, 25, 2180-2181.	0.2	0
16	High-Rate Spinel LiMn ₂ O ₄ (LMO) Following Carbonate Removal and Formation of Li-Rich Interface by ALD Treatment. <i>Journal of Physical Chemistry C</i> , 2019, 123, 23783-23790.	1.5	22
17	Liquid Ammonia Chemical Lithiation: An Approach for High-Energy and High-Voltage Si-Graphite Li _{1+x} Ni _{0.5} Mn _{1.5} O ₄ Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 5019-5028.	2.5	31
18	A New Emerging Technology: Na-Ion Batteries. <i>Small Methods</i> , 2019, 3, 1900184.	4.6	37

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19	Photo-accelerated fast charging of lithium-ion batteries. <i>Nature Communications</i> , 2019, 10, 4946.	5.8	68
20	Capacity fade in high energy silicon-graphite electrodes for lithium-ion batteries. <i>Chemical Communications</i> , 2018, 54, 3586-3589.	2.2	41
21	On Disrupting the Na ⁺ -Ion/Vacancy Ordering in P2-Type Sodium Manganese Nickel Oxide Cathodes for Na ⁺ -Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23251-23260.	1.5	55
22	Mechanism for Al ₂ O ₃ Atomic Layer Deposition on LiMn ₂ O ₄ from In Situ Measurements and Ab Initio Calculations. <i>Chem</i> , 2018, 4, 2418-2435.	5.8	47
23	Assessment of Li-Inventory in Cycled Si-Graphite Anodes Using LiFePO ₄ as a Diagnostic Cathode. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2389-A2396.	1.3	28
24	The quest for manganese-rich electrodes for lithium batteries: strategic design and electrochemical behavior. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1375-1397.	2.5	59
25	Mitigating the initial capacity loss and improving the cycling stability of silicon monoxide using Li ₅ FeO ₄ . <i>Journal of Power Sources</i> , 2018, 400, 549-555.	4.0	43
26	Microwave-Assisted Synthesis of NaCoPO ₄ Red-Phase and Initial Characterization as High Voltage Cathode for Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4391-4396.	4.0	31
27	Enabling the high capacity of lithium-rich anti-fluorite lithium iron oxide by simultaneous anionic and cationic redox. <i>Nature Energy</i> , 2017, 2, 963-971.	19.8	140
28	A new strategy to mitigate the initial capacity loss of lithium ion batteries. <i>Journal of Power Sources</i> , 2016, 324, 150-157.	4.0	84
29	Long cycle life microporous spherical carbon anodes for sodium-ion batteries derived from furfuryl alcohol. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6271-6275.	5.2	46
30	A High Power Rechargeable Nonaqueous Multivalent Zn/V ₂ O ₅ Battery. <i>Advanced Energy Materials</i> , 2016, 6, 1600826.	10.2	284
31	Dynamic Observation of Tunnel-driven Lithiation Process in Single Crystalline α-MnCh Nanowires. <i>Microscopy and Microanalysis</i> , 2015, 21, 329-330.	0.2	0
32	Nanostructured Layered Cathode for Rechargeable Mg-Ion Batteries. <i>ACS Nano</i> , 2015, 9, 8194-8205.	7.3	181
33	Asynchronous Crystal Cell Expansion during Lithiation of K ⁺ -Stabilized $\hat{1}\pm$ -MnO ₂ . <i>Nano Letters</i> , 2015, 15, 2998-3007.	4.5	161
34	Role of Cr ³⁺ /Cr ⁶⁺ redox in chromium-substituted Li ₂ MnO ₃ ·LiNi _{1/2} Mn _{1/2} O ₂ layered composite cathodes: electrochemistry and voltage fade. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9915-9924.	5.2	35
35	New Insights into the Performance Degradation of Fe-Based Layered Oxides in Sodium-Ion Batteries: Instability of Fe ³⁺ /Fe ⁴⁺ Redox in $\hat{1}\pm$ -NaFeO ₂ . <i>Chemistry of Materials</i> , 2015, 27, 6755-6764.	3.2	162
36	Rechargeable Seawater Battery and Its Electrochemical Mechanism. <i>ChemElectroChem</i> , 2015, 2, 328-332.	1.7	85

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37	Comparative electrochemical sodium insertion/extraction behavior in layered Na_xVS_2 and Na_xTiS_2 . <i>Electrochimica Acta</i> , 2014, 143, 272-277.	2.6	32
38	Electrodes: Layered P_2/O_3 Intergrowth Cathode: Toward High Power Na-Ion Batteries (Adv. Energy) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 5	10.2	5
39	First-Cycle Evolution of Local Structure in Electrochemically Activated $\text{Li}_{2-x}\text{MnO}_3$. <i>Chemistry of Materials</i> , 2014, 26, 7091-7098.	3.2	80
40	Layered P_2/O_3 Intergrowth Cathode: Toward High Power Na-Ion Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1400458.	10.2	191
41	Spherical Carbon as a New High-Rate Anode for Sodium-ion Batteries. <i>Electrochimica Acta</i> , 2014, 127, 61-67.	2.6	135
42	Operando Structural Characterization of the Lithium-Substituted Layered Sodium-Ion Cathode Material $\text{P}_2\text{-Na}_{0.85}\text{Li}_{0.17}\text{Ni}_{0.21}\text{Mn}_{0.64}\text{O}_2$ by X-ray Absorption Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1107-A1115.	1.3	36
43	Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 947-958.	7.8	3,832
44	Study of Thermal Decomposition of $\text{Li}_{1-x}(\text{Ni}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3})_{0.9}\text{O}_2$ Using In-Situ High-Energy X-Ray Diffraction. <i>Advanced Energy Materials</i> , 2013, 3, 729-736.	10.2	48
45	Intercalation of Sodium Ions into Hollow Iron Oxide Nanoparticles. <i>Chemistry of Materials</i> , 2013, 25, 245-252.	3.2	104
46	Nanostructured Bilayered Vanadium Oxide Electrodes for Rechargeable Sodium-Ion Batteries. <i>ACS Nano</i> , 2012, 6, 530-538.	7.3	313
47	Layered $\text{Na}[\text{Ni}_{1/3}\text{Fe}_{1/3}\text{Mn}_{1/3}]\text{O}_2$ cathodes for Na-ion battery application. <i>Electrochemistry Communications</i> , 2012, 18, 66-69.	2.3	384
48	Amorphous TiO_2 Nanotube Anode for Rechargeable Sodium Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2560-2565.	2.1	625
49	Enabling Sodium Batteries Using Lithium-Substituted Sodium Layered Transition Metal Oxide Cathodes. <i>Advanced Energy Materials</i> , 2011, 1, 333-336.	10.2	397
50	High-energy and high-power Li-rich nickel manganese oxide electrode materials. <i>Electrochemistry Communications</i> , 2010, 12, 1618-1621.	2.3	87
51	Structural complexity of layered-spinel composite electrodes for Li-ion batteries. <i>Journal of Materials Research</i> , 2010, 25, 1601-1616.	1.2	34
52	Li_2O Removal from Li_5FeO_4 : A Cathode Precursor for Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2010, 22, 1263-1270.	3.2	81
53	Li_2MnO_3 -stabilized LiMO_2 (M = Mn, Ni, Co) electrodes for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2007, 17, 3112.	6.7	1,817
54	Advances in manganese-oxide composite electrodes for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2005, 15, 2257.	6.7	1,003

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55	The Electrochemical Stability of Spinel Electrodes Coated with ZrO ₂ , Al ₂ O ₃ , and SiO ₂ from Colloidal Suspensions. Journal of the Electrochemical Society, 2004, 151, A1755.	1.3	132
56	Structural Characterization of Layered Li _x Ni _{0.5} Mn _{0.5} O ₂ (0 < x ≤ 2) Oxide Electrodes for Li Batteries. Chemistry of Materials, 2003, 15, 2313-2322.	3.2	124
57	The role of Li ₂ MO ₂ structures (M=metal ion) in the electrochemistry of (x)LiMn _{0.5} Ni _{0.5} O ₂ ·(1-x)Li ₂ TiO ₃ electrodes for lithium-ion batteries. Electrochemistry Communications, 2002, 4, 492-498.	2.3	98
58	Lithium-Ion Battery Materials as Tunable, "Redox Non-Innocent" Catalyst Supports. ACS Catalysis, 0, , 7233-7242.	5.5	6