

Wesley Dose

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9024342/publications.pdf>

Version: 2024-02-01

48
papers

1,409
citations

331670

21
h-index

345221

36
g-index

50
all docs

50
docs citations

50
times ranked

1696
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | In Situ and Operando Analyses of Reaction Mechanisms in Vanadium Oxides for Li ⁺ , Na ⁺ , Zn ²⁺ , and Mg ²⁺ Ions Batteries. <i>Advanced Materials Technologies</i> , 2022, 7, 2100799. | 5.8 | 24 |
| 2 | Cathode pre-lithiation/sodiation for next-generation batteries. <i>Current Opinion in Electrochemistry</i> , 2022, 31, 100827. | 4.8 | 18 |
| 3 | Cycle-Induced Interfacial Degradation and Transition-Metal Cross-Over in LiNi _{0.8} Mn _{0.1} Co _{0.1} O ₂ Graphite Cells. <i>Chemistry of Materials</i> , 2022, 34, 2034-2048. | 6.7 | 28 |
| 4 | Electrolyte Reactivity at the Charged Ni-Rich Cathode Interface and Degradation in Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13206-13222. | 8.0 | 45 |
| 5 | Hollow-core optical fibre sensors for operando Raman spectroscopy investigation of Li-ion battery liquid electrolytes. <i>Nature Communications</i> , 2022, 13, 1651. | 12.8 | 61 |
| 6 | 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, . | 5.1 | 4 |
| 7 | Aerosol Jet Printing as a Versatile Sample Preparation Method for <i>Operando</i> Electrochemical TEM Microdevices. <i>Advanced Materials Interfaces</i> , 2022, 9, . | 3.7 | 1 |
| 8 | Electrochemical and structural evolution of structured V ₂ O ₅ microspheres during Li-ion intercalation. <i>Journal of Energy Chemistry</i> , 2021, 55, 108-113. | 12.9 | 19 |
| 9 | Influence of counter ions of ammonium for nitrogen doping and carbon properties in hydrothermal carbonization: characterization and supercapacitor performance. <i>Materials Advances</i> , 2021, 2, 384-397. | 5.4 | 10 |
| 10 | Ruddlesden Popper 2D perovskites as Li-ion battery electrodes. <i>Materials Advances</i> , 2021, 2, 3370-3377. | 5.4 | 13 |
| 11 | 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. | 10.3 | 16 |
| 12 | The influence of electrochemical cycling protocols on capacity loss in nickel-rich lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23582-23596. | 10.3 | 17 |
| 13 | Effect of Anode Slippage on Cathode Cutoff Potential and Degradation Mechanisms in Ni-Rich Li-Ion Batteries. <i>Cell Reports Physical Science</i> , 2020, 1, 100253. | 5.6 | 42 |
| 14 | Photo-rechargeable zinc-ion batteries. <i>Energy and Environmental Science</i> , 2020, 13, 2414-2421. | 30.8 | 135 |
| 15 | Structural evolution and electrochemistry of the Mn-Rich P ₂ -Na _{2/3} Mn _{0.9} Ti _{0.05} Fe _{0.05} O ₂ positive electrode material. <i>Electrochimica Acta</i> , 2020, 341, 135978. | 5.2 | 13 |
| 16 | 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. | 2.9 | 27 |
| 17 | Origins of Capacity Fade and Material Degradation in Ni-Rich NMC Li-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 218-218. | 0.0 | 0 |
| 18 | Investigating Surface Structure, Chemistry, and Thickness of NMC Cathodes Blended with LFO using EELS. <i>Microscopy and Microanalysis</i> , 2019, 25, 2180-2181. | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | High-Rate Spinel LiMn_2O_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. | 3.1 | 22 |
| 20 | Liquid Ammonia Chemical Lithiation: An Approach for High-Energy and High-Voltage $\text{Si}^{\text{Graphite}} \text{Li}_x\text{Ni}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Li-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 5019-5028. | 5.1 | 31 |
| 21 | Photo-accelerated fast charging of lithium-ion batteries. <i>Nature Communications</i> , 2019, 10, 4946. | 12.8 | 68 |
| 22 | Capacity fade in high energy silicon-graphite electrodes for lithium-ion batteries. <i>Chemical Communications</i> , 2018, 54, 3586-3589. | 4.1 | 41 |
| 23 | High voltage structural evolution and enhanced Na-ion diffusion in $\text{P2-Na}_{2/3}\text{Ni}_{1/3}\text{Mg}_x\text{Mn}_2\text{O}_2$ (0 $\%$), <i>Environmental Science</i> , 2018, 11, 1470-1479. | 30.8 | 148 |
| 24 | Rate and Composition Dependence on the Structural Electrochemical Relationships in $\text{P2-Na}_{2/3}\text{Fe}_{1-y}\text{Mn}_y\text{O}_2$ Positive Electrodes for Sodium-Ion Batteries. <i>Chemistry of Materials</i> , 2018, 30, 7503-7510. | 6.7 | 21 |
| 25 | 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. | 3.1 | 55 |
| 26 | 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. | 2.9 | 28 |
| 27 | Mitigating the initial capacity loss and improving the cycling stability of silicon monoxide using Li_5FeO_4 . <i>Journal of Power Sources</i> , 2018, 400, 549-555. | 7.8 | 43 |
| 28 | Nitrogen doped heat treated and activated hydrothermal carbon: NEXAFS examination of the carbon surface at different temperatures. <i>Carbon</i> , 2018, 128, 179-190. | 10.3 | 34 |
| 29 | Synchrotron based NEXAFS study on nitrogen doped hydrothermal carbon: Insights into surface functionalities and formation mechanisms. <i>Carbon</i> , 2017, 114, 566-578. | 10.3 | 72 |
| 30 | Structure Electrochemical Evolution of a Mn-Rich $\text{P2-Na}_{2/3}\text{Fe}_{0.2}\text{Mn}_{0.8}\text{O}_2$ Na-Ion Battery Cathode. <i>Chemistry of Materials</i> , 2017, 29, 7416-7423. | 6.7 | 58 |
| 31 | Crystallographic Evolution of $\text{P2-Na}_{2/3}\text{Fe}_{0.4}\text{Mn}_{0.6}\text{O}_2$ Electrodes during Electrochemical Cycling. <i>Chemistry of Materials</i> , 2016, 28, 6342-6354. | 6.7 | 69 |
| 32 | In-Situ Investigation of the Electrodeposition of Manganese Dioxide Using Small Angle X-Ray Scattering. <i>Journal of the Electrochemical Society</i> , 2015, 162, A1809-A1815. | 2.9 | 3 |
| 33 | Using in situ synchrotron x-ray diffraction to study lithium- and sodium-ion batteries: A case study with an unconventional battery electrode (Gd_2TiO_5). <i>Journal of Materials Research</i> , 2015, 30, 381-389. | 2.6 | 12 |
| 34 | Mechanistic and structural investigation of Li_xMnO_2 cathodes during cycling in Li-ion batteries. <i>Electrochimica Acta</i> , 2014, 137, 736-743. | 5.2 | 4 |
| 35 | Discharge mechanism of the heat treated electrolytic manganese dioxide cathode in a primary Li/MnO ₂ battery: An in-situ and ex-situ synchrotron X-ray diffraction study. <i>Journal of Power Sources</i> , 2014, 258, 155-163. | 7.8 | 18 |
| 36 | Kinetics of the Thermally-Induced Structural Rearrangement of MnO_2 . <i>Journal of Physical Chemistry C</i> , 2014, 118, 24257-24265. | 3.1 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Optimising heat treatment environment and atmosphere of electrolytic manganese dioxide for primary Li/MnO ₂ batteries. <i>Journal of Power Sources</i> , 2014, 247, 852-857. | 7.8 | 27 |
| 38 | Heat treated electrolytic manganese dioxide for primary Li/MnO ₂ batteries: Effect of manganese dioxide properties on electrochemical performance. <i>Electrochimica Acta</i> , 2013, 105, 305-313. | 5.2 | 19 |
| 39 | Optimizing Li/MnO ₂ batteries: Relating manganese dioxide properties and electrochemical performance. <i>Journal of Power Sources</i> , 2013, 221, 261-265. | 7.8 | 21 |
| 40 | Preparation and Electrochemical Performance of Li _x MnO ₂ Materials by a Reduction and Lithiation Method. <i>Journal of the Electrochemical Society</i> , 2013, 160, A1358-A1363. | 2.9 | 2 |
| 41 | Thermal expansion of manganese dioxide using high-temperature <i>in situ</i> X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2013, 46, 1283-1288. | 4.5 | 9 |
| 42 | Thermal Lithiation of Manganese Dioxide: Effect of Low Lithium Concentration (x ≈ 0.3 in) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 T <i>Electrochemical Society</i> , 2012, 159, A904-A908. | 2.9 | 8 |
| 43 | Characterisation of chemically lithiated heat-treated electrolytic manganese dioxide. <i>Materials Research Bulletin</i> , 2012, 47, 1827-1834. | 5.2 | 17 |
| 44 | Manganese dioxide structural effects on its thermal decomposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1169-1177. | 3.5 | 42 |
| 45 | Kinetic analysis of γ -MnO ₂ thermal treatment. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 113-122. | 3.6 | 17 |
| 46 | Thermal Treatment Effects on Manganese Dioxide Structure, Morphology and Electrochemical Performance. <i>Journal of the Electrochemical Society</i> , 2011, 158, A905. | 2.9 | 17 |
| 47 | Heat Treated Electrolytic Manganese Dioxide for Li/MnO ₂ Batteries: Effect of Precursor Properties. <i>Journal of the Electrochemical Society</i> , 2011, 158, A1036. | 2.9 | 15 |
| 48 | A Combined Lithium Intercalation and Plating Mechanism Using Conductive Carbon Fiber Electrodes. <i>Batteries and Supercaps</i> , 0, , . | 4.7 | 1 |