

Kristina Edström

List of Publications by Year in descending order

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245
papers

16,903
citations

16451

64
h-index

19190

118
g-index

250
all docs

250
docs citations

250
times ranked

14409
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Charge-compensation in 3d-transition-metal-oxide intercalation cathodes through the generation of localized electron holes on oxygen. <i>Nature Chemistry</i> , 2016, 8, 684-691. | 13.6 | 898 |
| 2 | The cathode-electrolyte interface in the Li-ion battery. <i>Electrochimica Acta</i> , 2004, 50, 397-403. | 5.2 | 783 |
| 3 | Recent findings and prospects in the field of pure metals as negative electrodes for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2007, 17, 3759. | 6.7 | 681 |
| 4 | THE CATHODE-ELECTROLYTE INTERFACE IN A Li-ION BATTERY. , 2004, , 337-364. | | 561 |
| 5 | Improved Performance of the Silicon Anode for Li-Ion Batteries: Understanding the Surface Modification Mechanism of Fluoroethylene Carbonate as an Effective Electrolyte Additive. <i>Chemistry of Materials</i> , 2015, 27, 2591-2599. | 6.7 | 494 |
| 6 | A new look at the solid electrolyte interphase on graphite anodes in Li-ion batteries. <i>Journal of Power Sources</i> , 2006, 153, 380-384. | 7.8 | 472 |
| 7 | Lithium salts for advanced lithium batteries: Li-metal, Li ₂ O, and Li ₂ S. <i>Energy and Environmental Science</i> , 2015, 8, 1905-1922. | 30.8 | 460 |
| 8 | Nanosilicon Electrodes for Lithium-Ion Batteries: Interfacial Mechanisms Studied by Hard and Soft X-ray Photoelectron Spectroscopy. <i>Chemistry of Materials</i> , 2012, 24, 1107-1115. | 6.7 | 445 |
| 9 | Lithium-ion batteries – Current state of the art and anticipated developments. <i>Journal of Power Sources</i> , 2020, 479, 228708. | 7.8 | 401 |
| 10 | Interface layer formation in solid polymer electrolyte lithium batteries: an XPS study. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7256-7264. | 10.3 | 296 |
| 11 | Comparing anode and cathode electrode/electrolyte interface composition and morphology using soft and hard X-ray photoelectron spectroscopy. <i>Electrochimica Acta</i> , 2013, 97, 23-32. | 5.2 | 277 |
| 12 | Improved Performances of Nanosilicon Electrodes Using the Salt LiFSI: A Photoelectron Spectroscopy Study. <i>Journal of the American Chemical Society</i> , 2013, 135, 9829-9842. | 13.7 | 275 |
| 13 | The influence of lithium salt on the interfacial reactions controlling the thermal stability of graphite anodes. <i>Electrochimica Acta</i> , 2002, 47, 1885-1898. | 5.2 | 259 |
| 14 | Electrochemically lithiated graphite characterised by photoelectron spectroscopy. <i>Journal of Power Sources</i> , 2003, 119-121, 522-527. | 7.8 | 256 |
| 15 | Role of the LiPF ₆ Salt for the Long-Term Stability of Silicon Electrodes in Li-Ion Batteries – A Photoelectron Spectroscopy Study. <i>Chemistry of Materials</i> , 2013, 25, 394-404. | 6.7 | 241 |
| 16 | How dynamic is the SEI?. <i>Journal of Power Sources</i> , 2007, 174, 970-975. | 7.8 | 234 |
| 17 | 3D lithium ion batteries – from fundamentals to fabrication. <i>Journal of Materials Chemistry</i> , 2011, 21, 9876. | 6.7 | 231 |
| 18 | Self-Supported Three-Dimensional Nanoelectrodes for Microbattery Applications. <i>Nano Letters</i> , 2009, 9, 3230-3233. | 9.1 | 226 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Influence of carbon black and binder on Li-ion batteries. <i>Journal of Power Sources</i> , 2001, 101, 1-9. | 7.8 | 200 |
| 20 | Polycarbonate-based solid polymer electrolytes for Li-ion batteries. <i>Solid State Ionics</i> , 2014, 262, 738-742. | 2.7 | 199 |
| 21 | Li ⁺ Battery Degradation by Lithium Peroxide (Li ₂ O ₂): A Model Study. <i>Chemistry of Materials</i> , 2013, 25, 77-84. | 6.7 | 179 |
| 22 | Non-uniform aging of cycled commercial LiFePO ₄ /graphite cylindrical cells revealed by post-mortem analysis. <i>Journal of Power Sources</i> , 2014, 257, 126-137. | 7.8 | 179 |
| 23 | Electrodeposited Sb and Sb/Sb ₂ O ₃ Nanoparticle Coatings as Anode Materials for Li-Ion Batteries. <i>Chemistry of Materials</i> , 2007, 19, 1170-1180. | 6.7 | 171 |
| 24 | Towards more sustainable negative electrodes in Na-ion batteries via nanostructured iron oxide. <i>Journal of Power Sources</i> , 2014, 245, 967-978. | 7.8 | 168 |
| 25 | Challenges and development of composite solid-state electrolytes for high-performance lithium ion batteries. <i>Journal of Power Sources</i> , 2019, 441, 227175. | 7.8 | 168 |
| 26 | Lithium trapping in alloy forming electrodes and current collectors for lithium based batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1350-1357. | 30.8 | 152 |
| 27 | Nanocellulose Modified Polyethylene Separators for Lithium Metal Batteries. <i>Small</i> , 2018, 14, e1704371. | 10.0 | 130 |
| 28 | Rechargeable Batteries of the Future – The State of the Art from a BATTERY 2030+ Perspective. <i>Advanced Energy Materials</i> , 2022, 12, . | 19.5 | 124 |
| 29 | Photoelectron Spectroscopy for Lithium Battery Interface Studies. <i>Journal of the Electrochemical Society</i> , 2016, 163, A178-A191. | 2.9 | 109 |
| 30 | Superlithiation of Organic Electrode Materials: The Case of Dilithium Benzenedipropiolate. <i>Chemistry of Materials</i> , 2016, 28, 1920-1926. | 6.7 | 109 |
| 31 | Functional, water-soluble binders for improved capacity and stability of lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2014, 264, 8-14. | 7.8 | 108 |
| 32 | Efficient BiVO ₄ Photoanodes by Postsynthetic Treatment: Remarkable Improvements in Photoelectrochemical Performance from Facile Borate Modification. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 19027-19033. | 13.8 | 108 |
| 33 | The SEI layer formed on lithium metal in the presence of oxygen: A seldom considered component in the development of the Li-O ₂ battery. <i>Journal of Power Sources</i> , 2013, 225, 40-45. | 7.8 | 107 |
| 34 | Surface characterization and stability phenomena in Li ₂ FeSiO ₄ studied by PES/XPS. <i>Journal of Materials Chemistry</i> , 2006, 16, 3483-3488. | 6.7 | 106 |
| 35 | Ether Based Electrolyte, LiB(CN) ₄ Salt and Binder Degradation in the Li-O ₂ Battery Studied by Hard X-ray Photoelectron Spectroscopy (HAXPES). <i>Journal of Physical Chemistry C</i> , 2012, 116, 18597-18604. | 3.1 | 106 |
| 36 | SEI Formation and Interfacial Stability of a Si Electrode in a LiTDI-Salt Based Electrolyte with FEC and VC Additives for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15758-15766. | 8.0 | 105 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | High energy and power density TiO ₂ nanotube electrodes for 3D Li-ion microbatteries. Journal of Materials Chemistry A, 2013, 1, 8160. | 10.3 | 101 |
| 38 | At the polymer electrolyte interfaces: the role of the polymer host in interphase layer formation in Li-batteries. Journal of Materials Chemistry A, 2015, 3, 13994-14000. | 10.3 | 101 |
| 39 | Investigation of the Electrode/Electrolyte Interface of Fe ₂ O ₃ Composite Electrodes: Li vs Na Batteries. Chemistry of Materials, 2014, 26, 5028-5041. | 6.7 | 99 |
| 40 | Why PEO as a binder or polymer coating increases capacity in the Li-S system. Chemical Communications, 2013, 49, 8531. | 4.1 | 98 |
| 41 | Mesoporous Cladophora cellulose separators for lithium-ion batteries. Journal of Power Sources, 2016, 321, 185-192. | 7.8 | 98 |
| 42 | Porosity Blocking in Highly Porous Carbon Black by PVdF Binder and Its Implications for the Li-S System. Journal of Physical Chemistry C, 2014, 118, 25890-25898. | 3.1 | 95 |
| 43 | Flexible freestanding Cladophora nanocellulose paper based Si anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2015, 3, 14109-14115. | 10.3 | 91 |
| 44 | Direct electrodeposition of aluminium nano-rods. Electrochemistry Communications, 2008, 10, 1467-1470. | 4.7 | 86 |
| 45 | Consequences of air exposure on the lithiated graphite SEI. Electrochimica Acta, 2013, 105, 83-91. | 5.2 | 86 |
| 46 | Fast-charging effects on ageing for energy-optimized automotive LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ /graphite prismatic lithium-ion cells. Journal of Power Sources, 2019, 422, 175-184. | 7.8 | 86 |
| 47 | Improving the electrochemical performance of organic Li-ion battery electrodes. Chemical Communications, 2013, 49, 1945. | 4.1 | 85 |
| 48 | Lithium Insertion into Vanadium Oxide Nanotubes: Electrochemical and Structural Aspects. Chemistry of Materials, 2006, 18, 495-503. | 6.7 | 84 |
| 49 | Realization of high performance polycarbonate-based Li polymer batteries. Electrochemistry Communications, 2015, 52, 71-74. | 4.7 | 84 |
| 50 | Sandwich-structured nano/micro fiber-based separators for lithium metal batteries. Nano Energy, 2019, 55, 316-326. | 16.0 | 84 |
| 51 | Solid electrolyte interphase on graphite Li-ion battery anodes studied by soft X-ray spectroscopy. Physical Chemistry Chemical Physics, 2004, 6, 4185-4189. | 2.8 | 83 |
| 52 | Influence of the cathode porosity on the discharge performance of the lithium-oxygen battery. Journal of Power Sources, 2011, 196, 9835-9838. | 7.8 | 83 |
| 53 | Characterisation of the ambient and elevated temperature performance of a graphite electrode. Journal of Power Sources, 1999, 81-82, 8-12. | 7.8 | 82 |
| 54 | Constraining Si Particles within Graphene Foam Monolith: Interfacial Modification for High-Performance Li ⁺ Storage and Flexible Integrated Configuration. Advanced Functional Materials, 2016, 26, 6797-6806. | 14.9 | 82 |

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| 55 | The Li ⁺ S battery: an investigation of redox shuttle and self-discharge behaviour with LiNO ₃ -containing electrolytes. RSC Advances, 2016, 6, 3632-3641. | 3.6 | 80 |
| 56 | Reduced graphene oxide for Li ⁺ air batteries: The effect of oxidation time and reduction conditions for graphene oxide. Carbon, 2015, 85, 233-244. | 10.3 | 78 |
| 57 | Lightweight, Thin, and Flexible Silver Nanopaper Electrodes for High-Capacity Dendrite-Free Sodium Metal Anodes. Advanced Functional Materials, 2018, 28, 1804038. | 14.9 | 73 |
| 58 | Synthesis and characterization of a new layered cathode material for sodium ion batteries. Journal of Power Sources, 2014, 266, 275-281. | 7.8 | 71 |
| 59 | A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. Advanced Energy Materials, 2022, 12, . | 19.5 | 70 |
| 60 | LiTDI: A Highly Efficient Additive for Electrolyte Stabilization in Lithium-Ion Batteries. Chemistry of Materials, 2017, 29, 2254-2263. | 6.7 | 69 |
| 61 | How the Negative Electrode Influences Interfacial and Electrochemical Properties of LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ Cathodes in Li-Ion Batteries. Journal of the Electrochemical Society, 2017, 164, A3054-A3059. | 2.9 | 67 |
| 62 | Understanding the Capacity Loss in LiNi _{0.5} Mn _{1.5} O ₄ Li ₄ Ti ₅ O ₁₂ Lithium-Ion Cells at Ambient and Elevated Temperatures. Journal of Physical Chemistry C, 2018, 122, 11234-11248. | 3.1 | 67 |
| 63 | Highly Concentrated LiTFSI-EC Electrolytes for Lithium Metal Batteries. ACS Applied Energy Materials, 2020, 3, 200-207. | 5.1 | 67 |
| 64 | Surface Characterization of the Carbon Cathode and the Lithium Anode of Li ⁺ O ₂ Batteries Using LiClO ₄ or LiBOB Salts. ACS Applied Materials & Interfaces, 2013, 5, 1333-1341. | 8.0 | 66 |
| 65 | Flash Joule heating for ductilization of metallic glasses. Nature Communications, 2015, 6, 7932. | 12.8 | 66 |
| 66 | Analysis of the Interphase on Carbon Black Formed in High Voltage Batteries. Journal of the Electrochemical Society, 2015, 162, A1289-A1296. | 2.9 | 65 |
| 67 | Passivation Layer and Cathodic Redox Reactions in Sodium-Ion Batteries Probed by HAXPES. ChemSusChem, 2016, 9, 97-108. | 6.8 | 64 |
| 68 | Conducting polymer paper-derived separators for lithium metal batteries. Energy Storage Materials, 2018, 13, 283-292. | 18.0 | 64 |
| 69 | Design of a new lithium ion battery test cell for in-situ neutron diffraction measurements. Journal of Power Sources, 2013, 226, 249-255. | 7.8 | 62 |
| 70 | The Buried Carbon/Solid Electrolyte Interphase in Li-ion Batteries Studied by Hard X-ray Photoelectron Spectroscopy. Electrochimica Acta, 2014, 138, 430-436. | 5.2 | 62 |
| 71 | Electric Potential Gradient at the Buried Interface between Lithium-Ion Battery Electrodes and the SEI Observed Using Photoelectron Spectroscopy. Journal of Physical Chemistry Letters, 2016, 7, 1775-1780. | 4.6 | 62 |
| 72 | Depth-dependent oxygen redox activity in lithium-rich layered oxide cathodes. Journal of Materials Chemistry A, 2019, 7, 25355-25368. | 10.3 | 62 |

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|----|--|------|-----------|
| 73 | The Cathode Surface Composition of a Cycled LiO_2 Battery: A Photoelectron Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20673-20680. | 3.1 | 61 |
| 74 | Stability of organic Na-ion battery electrode materials: The case of disodium pyromellitic diimide. <i>Electrochemistry Communications</i> , 2014, 45, 52-55. | 4.7 | 60 |
| 75 | Understanding the Roles of Tris(trimethylsilyl) Phosphite (TMSPi) in $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$ (NMC811)/Silicon-Graphite (Si-Gr) Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000277. | 3.7 | 56 |
| 76 | Galvanostatic electrodeposition of aluminium nano-rods for Li-ion three-dimensional micro-battery current collectors. <i>Electrochimica Acta</i> , 2011, 56, 3203-3208. | 5.2 | 55 |
| 77 | Molybdenum Oxide Nanosheets with Tunable Plasmonic Resonance: Aqueous Exfoliation Synthesis and Charge Storage Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1806699. | 14.9 | 55 |
| 78 | Redox Behavior of Vanadium Oxide Nanotubes As Studied by X-ray Photoelectron Spectroscopy and Soft X-ray Absorption Spectroscopy. <i>Chemistry of Materials</i> , 2003, 15, 3227-3232. | 6.7 | 54 |
| 79 | Pt/MnO_2 nanotube: A highly active electrocatalyst for LiO_2 battery. <i>Nano Energy</i> , 2014, 10, 19-27. | 16.0 | 54 |
| 80 | Influence of inactive electrode components on degradation phenomena in nano-Si electrodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2016, 325, 513-524. | 7.8 | 54 |
| 81 | The Influence of PMS-Additive on the Electrode/Electrolyte Interfaces in LiFePO_4 /Graphite Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23476-23486. | 3.1 | 53 |
| 82 | Thickness difference induced pore structure variations in cellulosic separators for lithium-ion batteries. <i>Cellulose</i> , 2017, 24, 2903-2911. | 4.9 | 53 |
| 83 | The impact of size effects on the electrochemical behaviour of Cu_2O -coated Cu nanopillars for advanced Li-ion microbatteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9574. | 10.3 | 52 |
| 84 | Surface Layer Evolution on Graphite During Electrochemical Sodium-tetraglyme Co-intercalation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12373-12381. | 8.0 | 49 |
| 85 | Unraveling and Mitigating the Storage Instability of Fluoroethylene Carbonate-Containing LiPF_6 Electrolytes To Stabilize Lithium Metal Anodes for High-Temperature Rechargeable Batteries. <i>ACS Applied Energy Materials</i> , 2019, 2, 4925-4935. | 5.1 | 49 |
| 86 | A stable graphite negative electrode for the lithium-sulfur battery. <i>Chemical Communications</i> , 2015, 51, 17100-17103. | 4.1 | 48 |
| 87 | Redox-Active Separators for Lithium-Ion Batteries. <i>Advanced Science</i> , 2018, 5, 1700663. | 11.2 | 48 |
| 88 | Understanding and Controlling the Surface Chemistry of LiFeSO_4F for an Enhanced Cathode Functionality. <i>Chemistry of Materials</i> , 2013, 25, 3020-3029. | 6.7 | 47 |
| 89 | Environmentally-Friendly Lithium Recycling From a Spent Organic Li-Ion Battery. <i>ChemSusChem</i> , 2014, 7, 2859-2867. | 6.8 | 47 |
| 90 | Nature of the Cathode-Electrolyte Interface in Highly Concentrated Electrolytes Used in Graphite Dual-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 3867-3880. | 8.0 | 47 |

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|-----|---|------|-----------|
| 91 | Understanding Battery Interfaces by Combined Characterization and Simulation Approaches: Challenges and Perspectives. <i>Advanced Energy Materials</i> , 2022, 12, . | 19.5 | 46 |
| 92 | Thin films of Cu ₂ Sb and Cu ₉ Sb ₂ as anode materials in Li-ion batteries. <i>Electrochimica Acta</i> , 2008, 53, 7226-7234. | 5.2 | 45 |
| 93 | Nanocellulose Structured Paper-Based Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 4341-4350. | 5.1 | 45 |
| 94 | Manganese in the SEI Layer of Li ₄ Ti ₅ O ₁₂ Studied by Combined NEXAFS and HAXPES Techniques. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3206-3213. | 3.1 | 44 |
| 95 | Adiponitrile“Lithium Bis(trimethylsulfonyl)imide Solutions as Alkyl Carbonate“free Electrolytes for Li ₄ Ti ₅ O ₁₂ (LTO)/LiNi _{1/3} Co _{1/3} Mn _{1/3} O ₂ (NMC) Li-ion Batteries. <i>ChemPhysChem</i> . 2017. 18. 1333-1344. | 2.1 | 44 |
| 96 | Influence of deposition temperature and amorphous carbon on microstructure and oxidation resistance of magnetron sputtered nanocomposite CrC films. <i>Applied Surface Science</i> , 2014, 305, 143-153. | 6.1 | 43 |
| 97 | Impact of the flame retardant additive triphenyl phosphate (TPP) on the performance of graphite/LiFePO ₄ cells in high power applications. <i>Journal of Power Sources</i> , 2014, 256, 430-439. | 7.8 | 43 |
| 98 | Depth profiling the solid electrolyte interphase on lithium titanate (Li ₄ Ti ₅ O ₁₂) using synchrotron-based photoelectron spectroscopy. <i>Journal of Power Sources</i> , 2015, 294, 173-179. | 7.8 | 43 |
| 99 | New in-situ neutron diffraction cell for electrode materials. <i>Journal of Power Sources</i> , 2014, 248, 900-904. | 7.8 | 42 |
| 100 | Emulsion-templated bicontinuous carbon network electrodes for use in 3D microstructured batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13750. | 10.3 | 41 |
| 101 | A versatile photoelectron spectrometer for pressures up to 30 mbar. <i>Review of Scientific Instruments</i> , 2014, 85, 075119. | 1.3 | 41 |
| 102 | Hierarchical self-assembled structures based on nitrogen-doped carbon nanotubes as advanced negative electrodes for Li-ion batteries and 3D microbatteries. <i>Journal of Power Sources</i> , 2015, 279, 581-592. | 7.8 | 41 |
| 103 | Critical evaluation of the stability of highly concentrated LiTFSI - Acetonitrile electrolytes vs. graphite, lithium metal and LiFePO ₄ electrodes. <i>Journal of Power Sources</i> , 2018, 384, 334-341. | 7.8 | 41 |
| 104 | Probing a battery electrolyte drop with ambient pressure photoelectron spectroscopy. <i>Nature Communications</i> , 2019, 10, 3080. | 12.8 | 41 |
| 105 | Understanding the redox process upon electrochemical cycling of the P2-Na _{0.78} Co _{1/2} Mn _{1/3} Ni _{1/6} O ₂ electrode material for sodium-ion batteries. <i>Communications Chemistry</i> , 2020, 3, . | 4.5 | 41 |
| 106 | Electrodeposition and electrochemical characterisation of thick and thin coatings of Sb and Sb/Sb ₂ O ₃ particles for Li-ion battery anodes. <i>Electrochimica Acta</i> , 2007, 53, 1062-1073. | 5.2 | 39 |
| 107 | Cation Ordering and Oxygen Release in LiNi _{0.5} Mn _{1.5} O ₄ (LNMO): In Situ Neutron Diffraction and Performance in Li Ion Full Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 3323-3335. | 5.1 | 39 |
| 108 | On the origin of the capacity fading for aluminium negative electrodes in Li-ion batteries. <i>Journal of Power Sources</i> , 2014, 269, 266-273. | 7.8 | 38 |

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| 109 | A one-step water based strategy for synthesizing hydrated vanadium pentoxide nanosheets from VO ₂ (B) as free-standing electrodes for lithium battery applications. Journal of Materials Chemistry A, 2016, 4, 17988-18001. | 10.3 | 38 |
| 110 | Direct <i>Operando</i> Observation of Double Layer Charging and Early Solid Electrolyte Interphase Formation in Li-Ion Battery Electrolytes. Journal of Physical Chemistry Letters, 2020, 11, 4119-4123. | 4.6 | 38 |
| 111 | Face to Face at the Cathode Electrolyte Interphase: From Interface Features to Interphase Formation and Dynamics. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 38 |
| 112 | Electrochemical elaboration of electrodes and electrolytes for 3D structured batteries. Journal of Materials Chemistry A, 2013, 1, 9281. | 10.3 | 37 |
| 113 | Comparing aging of graphite/LiFePO ₄ cells at 22°C and 55°C – Electrochemical and photoelectron spectroscopy studies. Journal of Power Sources, 2013, 243, 290-298. | 7.8 | 37 |
| 114 | Iron Doping in Spinel NiMn ₂ O ₄ : Stabilization of the Mesoporous Cubic Phase and Kinetics Activation toward Highly Reversible Li ⁺ Storage. Chemistry of Materials, 2015, 27, 7698-7709. | 6.7 | 37 |
| 115 | Improved cycling stability in high-capacity Li-rich vanadium containing disordered rock salt oxyfluoride cathodes. Journal of Materials Chemistry A, 2019, 7, 21244-21253. | 10.3 | 37 |
| 116 | Efficient BiVO ₄ Photoanodes by Postsynthetic Treatment: Remarkable Improvements in Photoelectrochemical Performance from Facile Borate Modification. Angewandte Chemie, 2019, 131, 19203-19209. | 2.0 | 35 |
| 117 | Elimination of Fluorination: The Influence of Fluorine-Free Electrolytes on the Performance of LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ /Silicon-Graphite Li-Ion Battery Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 10041-10052. | 6.7 | 35 |
| 118 | Intercalation and conversion reactions in Ni _{0.5} TiOPO ₄ Li-ion battery anode materials. Journal of Power Sources, 2013, 229, 265-271. | 7.8 | 34 |
| 119 | A high pressure x-ray photoelectron spectroscopy experimental method for characterization of solid-liquid interfaces demonstrated with a Li-ion battery system. Review of Scientific Instruments, 2015, 86, 044101. | 1.3 | 34 |
| 120 | Double-sided conductive separators for lithium-metal batteries. Energy Storage Materials, 2019, 21, 464-473. | 18.0 | 34 |
| 121 | Encasing Si particles within a versatile TiO ₂ -x layer as an extremely reversible anode for high energy-density lithium-ion battery. Nano Energy, 2016, 30, 745-755. | 16.0 | 33 |
| 122 | A hard X-ray photoelectron spectroscopy study on the solid electrolyte interphase of a lithium 4,5-dicyano-2-(trifluoromethyl)imidazolide based electrolyte for Si-electrodes. Journal of Power Sources, 2016, 301, 105-112. | 7.8 | 33 |
| 123 | Breaking Down a Complex System: Interpreting PES Peak Positions for Cycled Li-Ion Battery Electrodes. Journal of Physical Chemistry C, 2017, 121, 27303-27312. | 3.1 | 33 |
| 124 | Towards high-voltage Li-ion batteries: Reversible cycling of graphite anodes and Li-ion batteries in adiponitrile-based electrolytes. Electrochimica Acta, 2018, 281, 299-311. | 5.2 | 33 |
| 125 | How Mn/Ni Ordering Controls Electrochemical Performance in High-Voltage Spinel LiNi _{0.44} Mn _{1.56} O ₄ with Fixed Oxygen Content. ACS Applied Energy Materials, 2020, 3, 6001-6013. | 5.1 | 33 |
| 126 | Iron-Based Electrodes Meet Water-Based Preparation, Fluorine-Free Electrolyte and Binder: A Chance for More Sustainable Lithium-Ion Batteries?. ChemSusChem, 2017, 10, 2431-2448. | 6.8 | 32 |

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|-----|---|------|-----------|
| 127 | On the P2-Na _x Co _{1-y} (Mn _{2/3} Ni _{1/3}) ₂ O ₂ Cathode Materials for Sodium-Ion Batteries: Synthesis, Electrochemical Performance, and Redox Processes Occurring during the Electrochemical Cycling. ACS Applied Materials & Interfaces, 2018, 10, 488-501. | 8.0 | 32 |
| 128 | On the Capacity Losses Seen for Optimized Nano-Si Composite Electrodes in Li-Metal Half-Cells. Advanced Energy Materials, 2019, 9, 1901608. | 19.5 | 32 |
| 129 | Garnet-Poly(μ -caprolactone-co-trimethylene carbonate) Polymer-in-Ceramic Composite Electrolyte for All-Solid-State Lithium-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 2531-2542. | 5.1 | 32 |
| 130 | Toward Better and Smarter Batteries by Combining AI with Multisensory and Self-Healing Approaches. Advanced Energy Materials, 2021, 11, 2100362. | 19.5 | 32 |
| 131 | Mechanisms and Performances of Na _{1.5} Fe _{0.5} Ti _{1.5} (PO ₄) ₃ /C Composite as Electrode Material for Na-Ion Batteries. Journal of Physical Chemistry C, 2015, 119, 25220-25234. | 3.1 | 31 |
| 132 | Photoelectron Spectroscopic Evidence for Overlapping Redox Reactions for SnO ₂ Electrodes in Lithium-Ion Batteries. Journal of Physical Chemistry C, 2017, 121, 4924-4936. | 3.1 | 31 |
| 133 | Degradation Mechanisms in Li ₂ VO ₂ F Li-Rich Disordered Rock-Salt Cathodes. Chemistry of Materials, 2019, 31, 6084-6096. | 6.7 | 31 |
| 134 | 3-D binder-free graphene foam as a cathode for high capacity Li-O ₂ batteries. Journal of Materials Chemistry A, 2016, 4, 9767-9773. | 10.3 | 30 |
| 135 | XPS study of duplex stainless steel as a possible current collector in a Li-ion battery. Electrochimica Acta, 2012, 79, 82-94. | 5.2 | 29 |
| 136 | Electrochemical fabrication and characterization of Cu/Cu ₂ O multi-layered micro and nanorods in Li-ion batteries. Nanoscale, 2015, 7, 13591-13604. | 5.6 | 29 |
| 137 | Towards an Understanding of Li ₂ O ₂ Evolution in Li-O ₂ Batteries: An In-Operando Synchrotron X-ray Diffraction Study. ChemSusChem, 2017, 10, 1592-1599. | 6.8 | 29 |
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