

# Kristina Edström

## List of Publications by Year in descending order

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245  
papers

16,903  
citations

17405

63  
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19136

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g-index

250  
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250  
docs citations

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times ranked

14409  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ternary Ionogel Electrolytes Enable Quasi-Solid-State Potassium Dual-Ion Intercalation Batteries. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, 2100122.	2.8	6
2	Face to Face at the Cathode Electrolyte Interphase: From Interface Features to Interphase Formation and Dynamics. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	38
3	A Roadmap for Transforming Research to Invent the Batteries of the Future Designed within the European Large Scale Research Initiative BATTERY 2030+. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	70
4	Concentrated LiFSI-Ethylene Carbonate Electrolytes and Their Compatibility with High-Capacity and High-Voltage Electrodes. <i>ACS Applied Energy Materials</i> , 2022, 5, 585-595.	2.5	15
5	Accelerating Battery Characterization Using Neutron and Synchrotron Techniques: Toward a Modal and Multi-Scale Standardized Experimental Workflow. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	17
6	Rechargeable Batteries of the Future—The State of the Art from a BATTERY 2030+ Perspective. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	124
7	Synthesis-structure relationships in Li- and Mn-rich layered oxides: phase evolution, superstructure ordering and stacking faults. <i>Dalton Transactions</i> , 2022, 51, 4435-4446.	1.6	8
8	Anionic Redox and Electrochemical Kinetics of the $\text{Na}_{2}\text{Mn}_{3}\text{O}_{7}$ Cathode Material for Sodium-Ion Batteries. <i>Energy &amp; Fuels</i> , 2022, 36, 4015-4025.	2.5	11
9	Understanding Battery Interfaces by Combined Characterization and Simulation Approaches: Challenges and Perspectives. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	46
10	Perspectives on Iron Oxide-Based Materials with Carbon as Anodes for Li- and K-Ion Batteries. <i>Nanomaterials</i> , 2022, 12, 1436.	1.9	17
11	Editorial to the Special Issue: How to Reinvent the Ways to Invent the Batteries of the Future—the Battery 2030+ Large-Scale Research Initiative Roadmap. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	6
12	Nature of the Cathode-Electrolyte Interface in Highly Concentrated Electrolytes Used in Graphite Dual-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 3867-3880.	4.0	47
13	Synthetic Pathway Determines the Nonequilibrium Crystallography of Li- and Mn-Rich Layered Oxide Cathode Materials. <i>ACS Applied Energy Materials</i> , 2021, 4, 1924-1935.	2.5	15
14	Garnet-Poly( $\mu$ -caprolactone-co-trimethylene carbonate) Polymer-in-Ceramic Composite Electrolyte for All-Solid-State Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 2531-2542.	2.5	32
15	Toward Better and Smarter Batteries by Combining AI with Multisensory and Self-Healing Approaches. <i>Advanced Energy Materials</i> , 2021, 11, 2100362.	10.2	32
16	Future Material Developments for Electric Vehicle Battery Cells Answering Growing Demands from an End-User Perspective. <i>Energies</i> , 2021, 14, 4223.	1.6	21
17	Probing Electrochemical Potential Differences over the Solid/Liquid Interface in Li-Ion Battery Model Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32989-32996.	4.0	6
18	A Lignosulfonate Binder for Hard Carbon Anodes in Sodium-Ion Batteries: A Comparative Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12708-12717.	3.2	10

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19	Influence of Synthesis Routes on the Crystallography, Morphology, and Electrochemistry of $\text{Li}_{2.2}\text{MnO}_3$ . ACS Applied Materials & Interfaces, 2020, 12, 5939-5950.	4.0	20
20	Highly Concentrated LiTFSI/EC Electrolytes for Lithium Metal Batteries. ACS Applied Energy Materials, 2020, 3, 200-207.	2.5	67
21	Sulfolane-Based Ethylene Carbonate-Free Electrolytes for $\text{Li}_{0.6}\text{Mn}_{0.2}\text{Co}_{0.2}\text{O}_2$ - $\text{Li}_4\text{Ti}_5\text{O}_{12}$ Batteries. Batteries and Supercaps, 2020, 3, 201-207.		
22	Lithium-ion batteries – Current state of the art and anticipated developments. Journal of Power Sources, 2020, 479, 228708.	4.0	401
23	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.	2.1	38
24	How Mn/Ni Ordering Controls Electrochemical Performance in High-Voltage Spinel $\text{Li}_{0.44}\text{Mn}_{1.56}\text{O}_4$ with Fixed Oxygen Content. ACS Applied Energy Materials, 2020, 3, 6001-6013.	2.5	33
25	Stabilization of Li-Rich Disordered Rocksalt Oxyfluoride Cathodes by Particle Surface Modification. ACS Applied Energy Materials, 2020, 3, 5937-5948.	2.5	19
26	Influence of Electrolyte Additives on the Degradation of $\text{Li}_2\text{VO}_2\text{F}$ Li-Rich Cathodes. Journal of Physical Chemistry C, 2020, 124, 12956-12967.	1.5	8
27	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.	1.9	56
28	Elimination of Fluorination: The Influence of Fluorine-Free Electrolytes on the Performance of $\text{Li}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3}\text{O}_2$ /Silicon-Graphite Li-Ion Battery Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 10041-10052.	3.2	35
29	Catalytically graphitized freestanding carbon foams for 3D Li-ion microbatteries. Journal of Power Sources Advances, 2020, 1, 100002.	2.6	5
30	Understanding the redox process upon electrochemical cycling of the $\text{P}_2\text{-Na}_{0.78}\text{Co}_{1/2}\text{Mn}_{1/3}\text{Ni}_{1/6}\text{O}_2$ electrode material for sodium-ion batteries. Communications Chemistry, 2020, 3, .	2.0	41
31	Micro versus Nano: Impact of Particle Size on the Flow Characteristics of Silicon Anode Slurries. Energy Technology, 2020, 8, 2000056.	1.8	22
32	Interactions and Transport in Highly Concentrated LiTFSI-based Electrolytes. ChemPhysChem, 2020, 21, 1166-1176.	1.0	25
33	Solid Electrolyte Interphase (SEI) Formation on the Graphite Anode in Electrolytes Containing the Anion Receptor Tris(hexafluoroisopropyl)borate (THFIPB). Journal of the Electrochemical Society, 2020, 167, 130504.	1.3	3
34	Tailoring the Microstructure and Electrochemical Performance of 3D Microbattery Electrodes Based on Carbon Foams. Energy Technology, 2019, 7, 1900797.	1.8	10
35	Probing a battery electrolyte drop with ambient pressure photoelectron spectroscopy. Nature Communications, 2019, 10, 3080.	5.8	41
36	On the Capacity Losses Seen for Optimized Nano-Si Composite Electrodes in Li-Metal Half-Cells. Advanced Energy Materials, 2019, 9, 1901608.	10.2	32

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37	Unraveling and Mitigating the Storage Instability of Fluoroethylene Carbonate-Containing LiPF <sub>6</sub> Electrolytes To Stabilize Lithium Metal Anodes for High-Temperature Rechargeable Batteries. ACS Applied Energy Materials, 2019, 2, 4925-4935.	2.5	49
38	Efficient BiVO <sub>4</sub> Photoanodes by Postsynthetic Treatment: Remarkable Improvements in Photoelectrochemical Performance from Facile Borate Modification. Angewandte Chemie - International Edition, 2019, 58, 19027-19033.	7.2	108
39	Challenges and development of composite solid-state electrolytes for high-performance lithium ion batteries. Journal of Power Sources, 2019, 441, 227175.	4.0	168
40	Challenges and perspectives for new material solutions in batteries. Solid State Communications, 2019, 303-304, 113733.	0.9	13
41	Efficient BiVO <sub>4</sub> Photoanodes by Postsynthetic Treatment: Remarkable Improvements in Photoelectrochemical Performance from Facile Borate Modification. Angewandte Chemie, 2019, 131, 19203-19209.	1.6	35
42	Manganese Hexacyanomanganate as a Positive Electrode for Nonaqueous Li-, Na-, and K-Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 22040-22049.	1.5	16
43	Improved cycling stability in high-capacity Li-rich vanadium containing disordered rock salt oxyfluoride cathodes. Journal of Materials Chemistry A, 2019, 7, 21244-21253.	5.2	37
44	Redox-State-Dependent Interplay between Pendant Group and Conducting Polymer Backbone in Quinone-Based Conducting Redox Polymers for Lithium Ion Batteries. ACS Applied Energy Materials, 2019, 2, 7162-7170.	2.5	17
45	Temperature Dependence of Electrochemical Degradation in LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> /Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Cells. Energy Technology, 2019, 7, 1900310.		
46	Neutron Pair Distribution Function Study of FePO <sub>4</sub> and LiFePO <sub>4</sub> . Chemistry of Materials, 2019, 31, 5024-5034.	3.2	11
47	Investigation of Dimethyl Carbonate and Propylene Carbonate Mixtures for LiNi <sub>0.6</sub> Mn <sub>0.2</sub> Co <sub>0.2</sub> O <sub>2</sub> ∕Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Cells. ChemElectroChem, 2019, 6, 3429-3436.		
48	Double-sided conductive separators for lithium-metal batteries. Energy Storage Materials, 2019, 21, 464-473.	9.5	34
49	Degradation Mechanisms in Li <sub>2</sub> VO <sub>2</sub> F Li-Rich Disordered Rock-Salt Cathodes. Chemistry of Materials, 2019, 31, 6084-6096.	3.2	31
50	Cation Ordering and Oxygen Release in LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> (LNMO): In Situ Neutron Diffraction and Performance in Li Ion Full Cells. ACS Applied Energy Materials, 2019, 2, 3323-3335.	2.5	39
51	Fast-charging effects on ageing for energy-optimized automotive LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> /graphite prismatic lithium-ion cells. Journal of Power Sources, 2019, 422, 175-184.	4.0	86
52	Depth-dependent oxygen redox activity in lithium-rich layered oxide cathodes. Journal of Materials Chemistry A, 2019, 7, 25355-25368.	5.2	62
53	Polydopamine-based redox-active separators for lithium-ion batteries. Journal of Materiomics, 2019, 5, 204-213.	2.8	20
54	Sandwich-structured nano/micro fiber-based separators for lithium metal batteries. Nano Energy, 2019, 55, 316-326.	8.2	84

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55	Molybdenum Oxide Nanosheets with Tunable Plasmonic Resonance: Aqueous Exfoliation Synthesis and Charge Storage Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1806699.	7.8	55
56	Ambient Pressure XPS Studies of Liquid Solid Interfaces in Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
57	Synthesis of Single Crystalline Ni-Rich NMC811 Cathode Materials and Improved Performance Enabled By Ultrathin Surface Coating Layer. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	1
58	(Invited) Design of the Separators for Li-Ion and Lithium Metal Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
59	(Invited) Solid State Electrochemistry and Future Battery Chemistries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
60	Lithium Trapping in Microbatteries Based on Lithium and Cu <sub>2</sub> O-Coated Copper Nanorods. <i>ChemistrySelect</i> , 2018, 3, 2311-2314.	0.7	8
61	Nanocellulose Modified Polyethylene Separators for Lithium Metal Batteries. <i>Small</i> , 2018, 14, e1704371.	5.2	130
62	Conducting polymer paper-derived separators for lithium metal batteries. <i>Energy Storage Materials</i> , 2018, 13, 283-292.	9.5	64
63	Size-Dependent Electrochemical Performance of Monolithic Anatase TiO <sub>2</sub> Nanotube Anodes for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 674-684.	1.7	18
64	Redox-Active Separators for Lithium-Ion Batteries. <i>Advanced Science</i> , 2018, 5, 1700663.	5.6	48
65	The Role of LiTDI Additive in LiNi <sub>1/3</sub> Mn <sub>1/3</sub> Co <sub>1/3</sub> O <sub>2</sub> /Graphite Lithium-Ion Batteries at Elevated Temperatures. <i>Journal of the Electrochemical Society</i> , 2018, 165, A40-A46.	1.3	16
66	Understanding the Capacity Loss in LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Lithium-Ion Cells at Ambient and Elevated Temperatures. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11234-11248.	1.5	67
67	Manganese pyrosilicates as novel positive electrode materials for Na-ion batteries. <i>Sustainable Energy and Fuels</i> , 2018, 2, 941-945.	2.5	3
68	Critical evaluation of the stability of highly concentrated LiTFSI - Acetonitrile electrolytes vs. graphite, lithium metal and LiFePO <sub>4</sub> electrodes. <i>Journal of Power Sources</i> , 2018, 384, 334-341.	4.0	41
69	On the P2-Na <sub>x</sub> Co <sub>1</sub> (Mn <sub>2/3</sub> Ni <sub>1/3</sub> ) <sub>2</sub> Cathode Materials for Sodium-Ion Batteries: Synthesis, Electrochemical Performance, and Redox Processes Occurring during the Electrochemical Cycling. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 488-501.	4.0	32
70	Toward Solid-State 3D-Microbatteries Using Functionalized Polycarbonate-Based Polymer Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 2407-2413.	4.0	25
71	Influence of state-of-charge in commercial LiNi <sub>0.33</sub> Mn <sub>0.33</sub> Co <sub>0.33</sub> O <sub>2</sub> /LiMn <sub>2</sub> O <sub>4</sub> -graphite cells analyzed by synchrotron-based photoelectron spectroscopy. <i>Journal of Energy Storage</i> , 2018, 15, 172-180.	3.9	13
72	A free standing Ru-TiC nanowire array/carbon textile cathode with enhanced stability for Li <sub>2</sub> O <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 23659-23668.	5.2	12

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73	Lightweight, Thin, and Flexible Silver Nanopaper Electrodes for High-Capacity Dendrite-Free Sodium Metal Anodes. <i>Advanced Functional Materials</i> , 2018, 28, 1804038.	7.8	73
74	Conducting Polymer Paper-Derived Mesoporous 3D N-doped Carbon Current Collectors for Na and Li Metal Anodes: A Combined Experimental and Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23352-23363.	1.5	27
75	Towards high-voltage Li-ion batteries: Reversible cycling of graphite anodes and Li-ion batteries in adiponitrile-based electrolytes. <i>Electrochimica Acta</i> , 2018, 281, 299-311.	2.6	33
76	Multiscale Interfacial Strategy to Engineer Mixed Metal-Oxide Anodes toward Enhanced Cycling Efficiency. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20095-20105.	4.0	5
77	Nanocellulose Structured Paper-Based Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2018, 1, 4341-4350.	2.5	45
78	Towards Li-Ion Batteries Operating at 80 °C: Ionic Liquid versus Conventional Liquid Electrolytes. <i>Batteries</i> , 2018, 4, 2.	2.1	14
79	Photoelectron Spectroscopic Evidence for Overlapping Redox Reactions for SnO <sub>2</sub> Electrodes in Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2017, 121, 4924-4936.	1.5	31
80	Adiponitrile-Lithium Bis(trimethylsulfonyl)imide Solutions as Alkyl Carbonate-Free Electrolytes for Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> (LTO)/LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> (NMC) Li-Ion Batteries. <i>ChemPhysChem</i> , 2017, 18, 1333-1344.	1.0	44
81	LiTDI: A Highly Efficient Additive for Electrolyte Stabilization in Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2017, 29, 2254-2263.	3.2	69
82	Elevated Temperature Lithium-Ion Batteries Containing SnO <sub>2</sub> Electrodes and LiTFSI-Pip <sub>14</sub> TFSI Ionic Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , 2017, 164, A701-A708.	1.3	4
83	Iron-Based Electrodes Meet Water-Based Preparation, Fluorine-Free Electrolyte and Binder: A Chance for More Sustainable Lithium-Ion Batteries?. <i>ChemSusChem</i> , 2017, 10, 2431-2448.	3.6	32
84	Towards an Understanding of Li <sub>2</sub> O <sub>2</sub> Evolution in Li-O <sub>2</sub> Batteries: An In-Operando Synchrotron X-ray Diffraction Study. <i>ChemSusChem</i> , 2017, 10, 1592-1599.	3.6	29
85	Dilithium 2-aminoterephthalate as a negative electrode material for lithium-ion batteries. <i>Solid State Ionics</i> , 2017, 307, 1-5.	1.3	12
86	Lithium trapping in alloy forming electrodes and current collectors for lithium based batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1350-1357.	15.6	152
87	On the Electrochemical Properties and Interphase Composition of Graphite: PVdF-HFP Electrodes in Dependence of Binder Content. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1765-A1772.	1.3	21
88	Different Shades of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Composites: The Impact of the Binder on Interface Layer Formation. <i>ChemElectroChem</i> , 2017, 4, 2683-2692.	1.7	14
89	Thickness difference induced pore structure variations in cellulosic separators for lithium-ion batteries. <i>Cellulose</i> , 2017, 24, 2903-2911.	2.4	53
90	Highly efficient Ru/MnO <sub>2</sub> nano-catalysts for Li-O <sub>2</sub> batteries: Quantitative analysis of catalytic Li <sub>2</sub> O <sub>2</sub> decomposition by operando synchrotron X-ray diffraction. <i>Journal of Power Sources</i> , 2017, 352, 208-215.	4.0	16

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91	The Effect of the Fluoroethylene Carbonate Additive in $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4\text{-Li}_4\text{Ti}_5\text{O}_{12}$ Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, A942-A948.	1.3	25
92	Surface Layer Evolution on Graphite During Electrochemical Sodium-tetraglyme Co-intercalation. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12373-12381.	4.0	49
93	Investigation of the Structural and Electrochemical Properties of $\text{Mn}_2\text{Sb}_3\text{O}_6\text{Cl}$ upon Reaction with Li Ions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5949-5958.	1.5	3
94	How the Negative Electrode Influences Interfacial and Electrochemical Properties of $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ Cathodes in Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3054-A3059.	1.3	67
95	A Water Based Synthesis of Ultrathin Hydrated Vanadium Pentoxide Nanosheets for Lithium Battery Application: Free Standing Electrodes or Conventionally Casted Electrodes?. <i>Electrochimica Acta</i> , 2017, 252, 254-260.	2.6	14
96	Overstoichiometric $\text{NbO}_2$ Nanoparticles for a High Energy and Power Density Lithium Microbattery. <i>ChemNanoMat</i> , 2017, 3, 646-655.	1.5	19
97	Oxygen redox reactions in Li ion battery electrodes studied by resonant inelastic X-ray scattering. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 221, 79-87.	0.8	7
98	Overlapping and rate controlling electrochemical reactions for tin(IV) oxide electrodes in lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2017, 797, 47-60.	1.9	14
99	Modelling the morphological background to capacity fade in Si-based lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 258, 755-763.	2.6	19
100	Breaking Down a Complex System: Interpreting PES Peak Positions for Cycled Li-Ion Battery Electrodes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27303-27312.	1.5	33
101	Passivation Layer and Cathodic Redox Reactions in Sodium-Ion Batteries Probed by HAXPES. <i>ChemSusChem</i> , 2016, 9, 97-108.	3.6	64
102	Electric Potential Gradient at the Buried Interface between Lithium-Ion Battery Electrodes and the SEI Observed Using Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1775-1780.	2.1	62
103	3-D binder-free graphene foam as a cathode for high capacity $\text{LiO}_2$ batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9767-9773.	5.2	30
104	Mesoporous Cladophora cellulose separators for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 321, 185-192.	4.0	98
105	Electrode Based on Oxyphosphates as Anode Materials for High Energy Density Lithium-ion Batteries. <i>Procedia Engineering</i> , 2016, 138, 281-290.	1.2	2
106	$\text{Ni}_3\text{Sb}_4\text{O}_6\text{F}_6$ and Its Electrochemical Behavior toward Lithium—A Combination of Conversion and Alloying Reactions. <i>Chemistry of Materials</i> , 2016, 28, 6520-6527.	3.2	7
107	Encasing Si particles within a versatile $\text{TiO}_2$ layer as an extremely reversible anode for high energy-density lithium-ion battery. <i>Nano Energy</i> , 2016, 30, 745-755.	8.2	33
108	Constraining Si Particles within Graphene Foam Monolith: Interfacial Modification for High-Performance $\text{Li}^+$ Storage and Flexible Integrated Configuration. <i>Advanced Functional Materials</i> , 2016, 26, 6797-6806.	7.8	82

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109	Boosting the thermal stability of emulsion-templated polymers via sulfonation: an efficient synthetic route to hierarchically porous carbon foams. <i>ChemistrySelect</i> , 2016, 1, 784-792.	0.7	14
110	A one-step water based strategy for synthesizing hydrated vanadium pentoxide nanosheets from VO <sub>2</sub> (B) as free-standing electrodes for lithium battery applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17988-18001.	5.2	38
111	A large format in operando wound cell for analysing the structural dynamics of lithium insertion materials. <i>Journal of Power Sources</i> , 2016, 336, 279-285.	4.0	16
112	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.	4.0	54
113	SEI Formation and Interfacial Stability of a Si Electrode in a LiTfO <sub>4</sub> -Salt Based Electrolyte with FEC and VC Additives for Li-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 15758-15766.	4.0	105
114	Photoelectron Spectroscopy for Lithium Battery Interface Studies. <i>Journal of the Electrochemical Society</i> , 2016, 163, A178-A191.	1.3	109
115	Compatibility of microwave plasma chemical vapor deposition manufactured Si/C electrodes with new LiTfO <sub>4</sub> -based electrolytes. <i>Solid State Ionics</i> , 2016, 286, 90-95.	1.3	9
116	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.	6.6	898
117	Manganese in the SEI Layer of Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> Studied by Combined NEXAFS and HAXPES Techniques. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3206-3213.	1.5	44
118	Insight into the processes controlling the electrochemical reactions of nanostructured iron oxide electrodes in Li- and Na-half cells. <i>Electrochimica Acta</i> , 2016, 194, 74-83.	2.6	12
119	Role of iron in Na <sub>1.5</sub> Fe <sub>0.5</sub> Ti <sub>1.5</sub> (PO <sub>4</sub> ) <sub>3</sub> /C as electrode material for Na-ion batteries studied by operando Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , 2016, 237, 1.	0.2	6
120	Superlithiation of Organic Electrode Materials: The Case of Dilithium Benzenedipropionate. <i>Chemistry of Materials</i> , 2016, 28, 1920-1926.	3.2	109
121	The Li <sup>+</sup> S battery: an investigation of redox shuttle and self-discharge behaviour with LiNO <sub>3</sub> -containing electrolytes. <i>RSC Advances</i> , 2016, 6, 3632-3641.	1.7	80
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. <i>Journal of Power Sources</i> , 2016, 301, 105-112.	4.0	33
123	Electrochemical characterizations of Co <sub>0.5</sub> TiOPO <sub>4</sub> as anode material for lithium-ion batteries. <i>Solar Energy Materials and Solar Cells</i> , 2016, 148, 44-51.	3.0	8
124	New electrochemical cells for operando neutron diffraction of battery materials. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s293-s293.	0.0	0
125	Recycled Poly(vinyl alcohol) Sponge for Carbon Encapsulation of Size-Tunable Tin Dioxide Nanocrystalline Composites. <i>ChemSusChem</i> , 2015, 8, 2084-2092.	3.6	7
126	An Organic Catalyst for Li <sup>+</sup> O <sub>2</sub> Batteries: Dilithium Quinone-1,4-dicarboxylate. <i>ChemSusChem</i> , 2015, 8, 2198-2203.	3.6	13

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