

Petr Novak

List of Publications by Year in descending order

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252
papers

30,575
citations

8208

78
h-index

5347

170
g-index

262
all docs

262
docs citations

262
times ranked

25289
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for stepwise formation of solid electrolyte interphase in a Li-ion battery. <i>Energy Storage Materials</i> , 2022, 44, 156-167.	9.5	20
2	Elucidating the Humidity-Induced Degradation of Ni-Rich Layered Cathodes for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13240-13249.	4.0	9
3	Nonlinear Electrochemical Analysis: Worth the Effort to Reveal New Insights into Energy Materials. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	11
4	Rechargeable Batteries for Simultaneous Demand Peak Shaving and Price Arbitrage Business. <i>IEEE Transactions on Sustainable Energy</i> , 2021, 12, 148-157.	5.9	32
5	Instability of PVDF Binder in the LiFePO ₄ versus Li ₄ Ti ₅ O ₁₂ Li-ion Battery Cell. <i>Helvetica Chimica Acta</i> , 2021, 104, .	1.0	13
6	Performance-limiting factors of graphite in sulfide-based all-solid-state lithium-ion batteries. <i>Electrochimica Acta</i> , 2021, 389, 138735.	2.6	14
7	Reactivity and Potential Profile across the Electrochemical LiCoO ₂ –Li ₃ PS ₄ Interface Probed by Operando X-ray Photoelectron Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42670-42681.	4.0	11
8	Unveiling the Complex Redox Reactions of SnO ₂ in Li-Ion Batteries Using Operando X-ray Photoelectron Spectroscopy and In Situ X-ray Absorption Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2547-2557.	4.0	20
9	Cation Ordering and Redox Chemistry of Layered Ni-Rich Li _x Ni _{1-2x} Co _y Mn _y O ₂ : An Operando Raman Spectroscopy Study. <i>Chemistry of Materials</i> , 2020, 32, 186-194.		61
10	Operando investigation of the solid electrolyte interphase mechanical and transport properties formed from vinylene carbonate and fluoroethylene carbonate. <i>Journal of Power Sources</i> , 2020, 477, 228567.	4.0	61
11	Lithium-ion batteries – Current state of the art and anticipated developments. <i>Journal of Power Sources</i> , 2020, 479, 228708.	4.0	401
12	Cr-Doped Li-Rich Nickel Cobalt Manganese Oxide as a Positive Electrode Material in Li-Ion Batteries to Enhance Cycling Stability. <i>ACS Applied Energy Materials</i> , 2020, 3, 8646-8657.	2.5	23
13	Multi-length-scale x-ray spectroscopies for determination of surface reactivity at high voltages of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ vs Li ₄ Ti ₅ O ₁₂ . <i>Journal of Chemical Physics</i> , 2020, 152, 184705.	1.2	9
14	Graphite Particle-Size Induced Morphological and Performance Changes of Graphite–Silicon Electrodes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 100535.	1.3	24
15	Influence of Water Contamination on the SEI Formation in Li-Ion Cells: An Operando EQCM-D Study. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 15934-15942.	4.0	50
16	Influence of Na/Mn arrangements and P2/P ₂ phase ratio on the electrochemical performance of Na _x MnO ₂ cathodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6022-6033.	5.2	39
17	Effect of a Boron Based Anion Receptor on Graphite and LiFePO ₄ Electrodes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 020525.	1.3	2
18	Insights into the chemical and electronic interface evolution of Li ₄ Ti ₅ O ₁₂ cycled in Li ₂ S–P ₂ S ₅ enabled by operando X-ray photoelectron spectroscopy. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5138-5146.	5.2	23

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19	Engineering of Sn and Pre-lithiated Sn as Negative Electrode Materials Coupled to Garnet Ta-LLZO Solid Electrolyte for All-Solid-State Li Batteries. <i>Batteries and Supercaps</i> , 2020, 3, 557-565.	2.4	10
20	Coating of NCM 851005 Cathode Material with AlO@Al ₂ O ₃ and Subsequent Treatment with Anhydrous HF. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070510.	1.3	10
21	Post Mortem and Operando XPEEM: a Surface-Sensitive Tool for Studying Single Particles in Li-Ion Battery Composite Electrodes. <i>Analytical Chemistry</i> , 2020, 92, 3023-3031.	3.2	27
22	Insights into the Charge Storage Mechanism of Li ₃ VO ₄ Anode Materials for Li-Ion Batteries. <i>ChemElectroChem</i> , 2020, 7, 2033-2041.	1.7	12
23	Study of Graphite Cycling in Sulfide Solid Electrolytes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110558.	1.3	23
24	Coating of Li _{1+x} [Ni _{0.85} Co _{0.10} Mn _{0.05}] _{1-x} O ₂ Cathode Active Material with Gaseous BF ₃ . <i>Journal of the Electrochemical Society</i> , 2020, 167, 120505.	1.3	3
25	Solid Electrolyte Interphase (SEI) Formation on the Graphite Anode in Electrolytes Containing the Anion Receptor Tris(hexafluoroisopropyl)borate (THFIPB). <i>Journal of the Electrochemical Society</i> , 2020, 167, 130504.	1.3	3
26	Towards more Durable Electrochemical Capacitors by Elucidating the Ageing Mechanisms under Different Testing Procedures. <i>ChemElectroChem</i> , 2019, 6, 566-573.	1.7	21
27	Stable and Unstable Diglyme-Based Electrolytes for Batteries with Sodium or Graphite as Electrode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32844-32855.	4.0	77
28	A modeling framework to assess specific energy, costs and environmental impacts of Li-ion and Na-ion batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3061-3070.	2.5	36
29	Electrochemistry and morphology of graphite negative electrodes containing silicon as capacity-enhancing electrode additive. <i>Electrochimica Acta</i> , 2019, 320, 134602.	2.6	20
30	Revealing the Dual Surface Reactions on a HE-NCM Li-Ion Battery Cathode and Their Impact on the Surface Chemistry of the Counter Electrode. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6054-6065.	4.0	23
31	Li/Fe substitution in Li-rich Ni, Co, Mn oxides for enhanced electrochemical performance as cathode materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15215-15224.	5.2	34
32	Surface Degradation and Chemical Electrolyte Oxidation Induced by the Oxygen Released from Layered Oxide Cathodes in Na-Ion Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 482-492.	2.4	29
33	Operando EQCM-D with Simultaneous in Situ EIS: New Insights into Interphase Formation in Li Ion Batteries. <i>Analytical Chemistry</i> , 2019, 91, 2296-2303.	3.2	54
34	(Invited) Raman Microscopy: What Can the Technique Tell Us?. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	1
35	Online Electrochemical Mass Spectrometry for Rechargeable Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
36	Graphite as Cointercalation Electrode for Sodium-Ion Batteries: Electrode Dynamics and the Missing Solid Electrolyte Interphase (SEI). <i>Advanced Energy Materials</i> , 2018, 8, 1702724.	10.2	191

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37	Switch of the Charge Storage Mechanism of $\text{Li}_{x}\text{Ni}_{0.80}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_{2}$ at Overdischarge Conditions. <i>Chemistry of Materials</i> , 2018, 30, 1907-1911.	3.2	32
38	Phosphorus anionic redox activity revealed by operando P K-edge X-ray absorption spectroscopy on diphosphonate-based conversion materials in Li-ion batteries. <i>Chemical Communications</i> , 2018, 54, 4939-4942.	2.2	7
39	SnO_{2} Model Electrode Cycled in Li-Ion Battery Reveals the Formation of $\text{Li}_{2}\text{SnO}_{3}$ and $\text{Li}_{8}\text{SnO}_{6}$ Phases through Conversion Reactions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8712-8720.	4.0	59
40	Solving the puzzle of $\text{Li}_{4}\text{Ti}_{5}\text{O}_{12}$ surface reactivity in aprotic electrolytes in Li-ion batteries by nanoscale XPEEM spectromicroscopy. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3534-3542.	5.2	17
41	Do imaging techniques add real value to the development of better post-Li-ion batteries?. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3304-3327.	5.2	36
42	Monitoring the chemical and electronic properties of electrolyte-electrode interfaces in all-solid-state batteries using operando X-ray photoelectron spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11123-11129.	1.3	48
43	Multiple redox couples cathode material for Li-ion battery: Lithium chromium phosphate. <i>Journal of Energy Storage</i> , 2018, 15, 266-273.	3.9	2
44	Lanthanum Manganite-based Air Electrode Catalysts and Their Application to Lithium-air Batteries: Effects of Carbon Support Oxidation. <i>Electrochemistry</i> , 2018, 86, 265-271.	0.6	5
45	Elucidation of $\text{Li}_{x}\text{Ni}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_{2}$ Redox Chemistry by Operando Raman Spectroscopy. <i>Chemistry of Materials</i> , 2018, 30, 4694-4703.	3.2	76
46	In situ and Operando Raman Spectroscopy of Layered Transition Metal Oxides for Li-ion Battery Cathodes. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	85
47	A Cylindrical Cell for Operando Neutron Diffraction of Li-Ion Battery Electrode Materials. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	30
48	The counterintuitive impact of separator-electrolyte combinations on the cycle life of graphite-silicon composite electrodes. <i>Journal of Power Sources</i> , 2017, 343, 142-147.	4.0	7
49	Fe and Co methylene diphosphonates as conversion materials for Li-ion batteries. <i>Journal of Power Sources</i> , 2017, 342, 879-885.	4.0	5
50	Ligand influence in Li-ion battery hybrid active materials: Ni methylenediphosphonate vs. Ni dimethylamino methylenediphosphonate. <i>Chemical Communications</i> , 2017, 53, 5420-5423.	2.2	4
51	Electrochemical impedance spectroscopy of a Li-S battery: Part 1. Influence of the electrode and electrolyte compositions on the impedance of symmetric cells. <i>Electrochimica Acta</i> , 2017, 244, 61-68.	2.6	64
52	Comparative operando study of degradation mechanisms in carbon-based electrochemical capacitors with $\text{Li}_{2}\text{SO}_{4}$ and LiNO_{3} electrolytes. <i>Carbon</i> , 2017, 120, 281-293.	5.4	46
53	Publisher's Note: XPS Study of the Interface Evolution of Carbonaceous Electrodes for Li-O_{2} Batteries during the 1st Cycle [i]. <i>Electrochem. Soc.</i> , 163, A2545 (2016)]. <i>Journal of the Electrochemical Society</i> , 2017, 164, X6-X6.	1.3	0
54	Relationship between the Properties and Cycle Life of Si/C Composites as Performance-Enhancing Additives to Graphite Electrodes for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A190-A203.	1.3	12

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55	Cycling Behavior of Silicon-Containing Graphite Electrodes, Part B: Effect of the Silicon Source. Journal of Physical Chemistry C, 2017, 121, 25718-25728.	1.5	22
56	Electrochemical impedance spectroscopy of a Li-S battery: Part 2. Influence of separator chemistry on the lithium electrode/electrolyte interface. Electrochimica Acta, 2017, 255, 379-390.	2.6	23
57	Colloidal Synthesis and Electrochemistry of Surface Coated Nano-LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ . Journal of the Electrochemical Society, 2017, 164, A2617-A2624.	1.3	4
58	A New Concept of an Air-Electrode Catalyst for Li ₂ O ₂ Decomposition Using MnO ₂ Nanosheets on Rechargeable Li-O ₂ Batteries. Electrochimica Acta, 2017, 252, 192-199.	2.6	9
59	Cycling Behavior of Silicon-Containing Graphite Electrodes, Part A: Effect of the Lithiation Protocol. Journal of Physical Chemistry C, 2017, 121, 18423-18429.	1.5	20
60	Crystal structure evolution <i>in situ</i> operando neutron diffraction during long-term cycling of a customized 5 V full Li-ion cylindrical cell LiNi _{0.5} Mn _{1.5} O ₄ vs. graphite. Journal of Materials Chemistry A, 2017, 5, 25574-25582.	5.2	31
61	Versatile Approach Combining Theoretical and Experimental Aspects of Raman Spectroscopy To Investigate Battery Materials: The Case of the LiNi _{0.5} Mn _{1.5} O ₄ Spinel. Journal of Physical Chemistry C, 2016, 120, 16377-16382.	1.5	23
62	Performance-Enhancing Asymmetric Separator for Lithium-Sulfur Batteries. ACS Applied Materials & Interfaces, 2016, 8, 18822-18831.	4.0	55
63	Decomposition of LiPF ₆ in High Energy Lithium-Ion Batteries Studied with Online Electrochemical Mass Spectrometry. Journal of the Electrochemical Society, 2016, 163, A1095-A1100.	1.3	185
64	On the correlation between electrode expansion and cycling stability of graphite/Si electrodes for Li-ion batteries. Carbon, 2016, 105, 42-51.	5.4	55
65	Pitfalls in Li-S Rate-Capability Evaluation. Journal of the Electrochemical Society, 2016, 163, A1139-A1145.	1.3	23
66	Operando Neutron Powder Diffraction Using Cylindrical Cell Design: The Case of LiNi _{0.5} Mn _{1.5} O ₄ vs Graphite. Journal of Physical Chemistry C, 2016, 120, 17268-17273.	1.5	30
67	Mechanism of the carbonate-based-electrolyte degradation and its effects on the electrochemical performance of Li _{1+x} (Ni _a Co _b Mn _{1-a-b}) _{1-x} O ₂ cells. Journal of Power Sources, 2016, 335, 91-97.	4.0	7
68	Elucidating the Surface Reactions of an Amorphous Si Thin Film as a Model Electrode for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 29791-29798.	4.0	41
69	XPS Study of the Interface Evolution of Carbonaceous Electrodes for Li-O ₂ Batteries during the 1st Cycle. Journal of the Electrochemical Society, 2016, 163, A2545-A2550.	1.3	26
70	Influence of aqueous electrolyte concentration on parasitic reactions in high-voltage electrochemical capacitors. Energy Storage Materials, 2016, 5, 111-115.	9.5	39
71	Electrode-electrolyte interface characterization of carbon electrodes in Li-O ₂ batteries: capabilities and limitations of infrared spectroscopy. Electrochimica Acta, 2016, 190, 753-757.	2.6	10
72	Ageing phenomena in high-voltage aqueous supercapacitors investigated by in situ gas analysis. Energy and Environmental Science, 2016, 9, 623-633.	15.6	204

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73	Effects of Solvent, Lithium Salt, and Temperature on Stability of Carbonate-Based Electrolytes for 5.0V LiNi _{0.5} Mn _{1.5} O ₄ Electrode. Journal of the Electrochemical Society, 2016, 163, A83-A89.	1.3	52
74	Online Electrochemical Mass Spectrometry of High Energy Lithium Nickel Cobalt Manganese Oxide/Graphite Half- and Full-Cells with Ethylene Carbonate and Fluoroethylene Carbonate Based Electrolytes. Journal of the Electrochemical Society, 2016, 163, A964-A970.	1.3	46
75	Investigation of Li-Ion Solvation in Carbonate Based Electrolytes Using Near Ambient Pressure Photoemission. Topics in Catalysis, 2016, 59, 628-634.	1.3	10
76	Understanding Inhomogeneous Reactions in Li-Ion Batteries: Operando Synchrotron X-Ray Diffraction on Two-Layer Electrodes. Advanced Science, 2015, 2, 1500083.	5.6	35
77	Influence of graphite edge crystallographic orientation on the first lithium intercalation in Li-ion battery. Carbon, 2015, 91, 458-467.	5.4	10
78	Lithium chromium pyrophosphate as an insertion material for Li-ion batteries. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2015, 71, 661-667.	0.5	4
79	Visualization of O-O peroxy-like dimers in high-capacity layered oxides for Li-ion batteries. Science, 2015, 350, 1516-1521.	6.0	659
80	Activation Mechanism of LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ : Surface and Bulk Operando Electrochemical, Differential Electrochemical Mass Spectrometry, and X-ray Diffraction Analyses. Chemistry of Materials, 2015, 27, 526-536.	3.2	198
81	Simultaneous in Situ X-ray Absorption Spectroscopy and X-ray Diffraction Studies on Battery Materials: The Case of Fe _{0.5} TiOPO ₄ . Journal of Physical Chemistry C, 2015, 119, 3466-3471.	1.5	26
82	Influence of Conversion Material Morphology on Electrochemistry Studied with Operando X-Ray Tomography and Diffraction. Advanced Materials, 2015, 27, 1676-1681.	11.1	48
83	Understanding the Interaction of the Carbonates and Binder in Na-Ion Batteries: A Combined Bulk and Surface Study. Chemistry of Materials, 2015, 27, 1210-1216.	3.2	88
84	MoS ₂ coating on MoO ₃ nanobelts: A novel approach for a high specific charge electrode for rechargeable Li-ion batteries. Journal of Power Sources, 2015, 279, 636-644.	4.0	29
85	In situ X-ray diffraction characterisation of Fe _{0.5} TiOPO ₄ and Cu _{0.5} TiOPO ₄ as electrode material for sodium-ion batteries. Electrochimica Acta, 2015, 176, 18-21.	2.6	44
86	Structural Changes and Microstrain Generated on LiNi _{0.80} Co _{0.15} Al _{0.05} O ₂ during Cycling: Effects on the Electrochemical Performance. Journal of the Electrochemical Society, 2015, 162, A1823-A1828.	1.3	59
87	A low-temperature benzyl alcohol/benzyl mercaptan synthesis of iron oxysulfide/iron oxide composite materials for electrodes in Li-ion batteries. Journal of Materials Chemistry A, 2015, 3, 16112-16119.	5.2	6
88	Electrochemical study of Si/C composites with particulate and fibrous morphology as negative electrodes for lithium-ion batteries. Journal of Power Sources, 2015, 294, 128-135.	4.0	18
89	Reversible Li-Intercalation through Oxygen Reactivity in Li-Rich Li-Fe-Te Oxide Materials. Journal of the Electrochemical Society, 2015, 162, A1341-A1351.	1.3	47
90	Progress Towards Commercially Viable Li-S Battery Cells. Advanced Energy Materials, 2015, 5, 1500118.	10.2	355

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91	Surface/Interface Study on Full $x\text{Li}_{2-x}\text{MnO}_3 \cdot (1-x)\text{LiMO}_2$ (M = Ni, Co) Electrodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, A870-A876.	1.3	21
92	Understanding the Roles of Anionic Redox and Oxygen Release during Electrochemical Cycling of Lithium-Rich Layered $\text{Li}_4\text{FeSbO}_6$. <i>Journal of the American Chemical Society</i> , 2015, 137, 4804-4814.	6.6	155
93	In Situ Gas Analysis of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ -Based Electrodes at Elevated Temperatures. <i>Journal of the Electrochemical Society</i> , 2015, 162, A870-A876.	1.3	89
94	Consequences of Electrolyte Degradation for the Electrochemical Performance of $\text{Li}_{1+x}(\text{Ni}_a\text{Co}_b\text{Mn}_{1-a-b})\text{O}_2$. <i>Journal of the Electrochemical Society</i> , 2015, 162, A7072-A7077.	1.3	14
95	Concentration Effects on the Entropy of Electrochemical Lithium Deposition: Implications for Li^+ Solvation. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13385-13390.	1.2	11
96	Rechargeable Batteries: Grasping for the Limits of Chemistry. <i>Journal of the Electrochemical Society</i> , 2015, 162, A2468-A2475.	1.3	211
97	Freeze-dried Li_xMoO_3 nanobelts used as cathode materials for lithium-ion batteries: A bulk and interface study. <i>Journal of Power Sources</i> , 2015, 297, 276-282.	4.0	8
98	Combined operando X-ray diffraction and electrochemical impedance spectroscopy detecting solid solution reactions of LiFePO_4 in batteries. <i>Nature Communications</i> , 2015, 6, 8169.	5.8	60
99	Taming the polysulphide shuttle in Li^+S batteries by plasma-induced asymmetric functionalisation of the separator. <i>RSC Advances</i> , 2015, 5, 79654-79660.	1.7	33
100	Lithium Iron Methylendiphosphonate: A Model Material for New Organic-Inorganic Hybrid Positive Electrode Materials for Li Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 7889-7895.	3.2	16
101	MSn_2 (M = Cu, Fe) Electrode Family as Dual-Performance Electrodes for Li^+S and Li^+ion Batteries. <i>Journal of the Electrochemical Society</i> , 2015, 162, A284-A287.	1.3	7
102	Important Aspects for Reliable Electrochemical Impedance Spectroscopy Measurements of Li-Ion Battery Electrodes. <i>Journal of the Electrochemical Society</i> , 2015, 162, A218-A222.	1.3	38
103	Towards a Stable Organic Electrolyte for the Lithium Oxygen Battery. <i>Advanced Energy Materials</i> , 2015, 5, 1400867.	10.2	192
104	Polyacrylate bound TiS_2 electrodes for Li-ion batteries. <i>Journal of Power Sources</i> , 2015, 273, 174-179.	4.0	11
105	Combined In Situ Raman and IR Microscopy at the Interface of a Single Graphite Particle with Ethylene Carbonate/Dimethyl Carbonate. <i>Journal of the Electrochemical Society</i> , 2014, 161, A1555-A1563.	1.3	49
106	Reducing Mass Transfer Effects on the Kinetics of 5V HE-NCM Electrode Materials for Li-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2014, 161, A871-A874.	1.3	5
107	Importance of unimportant experimental parameters in Li^+S battery development. <i>Journal of Power Sources</i> , 2014, 249, 497-502.	4.0	79
108	Ex situ and in situ Raman microscopic investigation of the differences between stoichiometric LiMO_2 and high-energy $x\text{Li}_2\text{MnO}_3 \cdot (1-x)\text{LiMO}_2$ (M = Ni, Co, Mn). <i>Electrochimica Acta</i> , 2014, 130, 206-212.	2.6	93

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109	Enhancement of the high potential specific charge in layered electrode materials for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8589.	5.2	92
110	Bulk and surface analyses of ageing of a 5V-NCM positive electrode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6488.	5.2	23
111	Elucidation of the reaction mechanism upon lithiation and delithiation of $\text{Cu}_{0.5}\text{TiOPO}_4$. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12513-12518.	5.2	20
112	Differential Electrochemical Mass Spectrometry Study of the Interface of $\text{Li}_2\text{MnO}_3 \cdot (1-x)\text{LiMO}_2$ (M = Ni, Co, and Mn) Material as a Positive Electrode in Li-Ion Batteries. <i>Chemistry of Materials</i> , 2014, 26, 5051-5057.	3.2	146
113	Electrochemical impedance spectroscopy: Understanding the role of the reference electrode. <i>Electrochemistry Communications</i> , 2013, 34, 208-210.	2.3	35
114	A metastable S^2 -sulfur phase stabilized at room temperature during cycling of high efficiency carbon fibre S composites for Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13089.	5.2	36
115	Effect of metal ion and ball milling on the electrochemical properties of $\text{M}_0.5\text{TiOPO}_4$ (M=Ni, Cu, Mg). <i>Electrochimica Acta</i> , 2013, 93, 179-188.	2.6	11
116	Antimony based negative electrodes for next generation Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13011.	5.2	28
117	Circular in situ neutron powder diffraction cell for study of reaction mechanism in electrode materials for Li-ion batteries. <i>RSC Advances</i> , 2013, 3, 757-763.	1.7	35
118	Electrochemical activation of Li_2MnO_3 at elevated temperature investigated by in situ Raman microscopy. <i>Electrochimica Acta</i> , 2013, 109, 426-432.	2.6	33
119	Shrinking annuli mechanism and stage-dependent rate capability of thin-layer graphite electrodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013, 106, 149-158.	2.6	109
120	Oxygen release from high-energy $x\text{Li}_2\text{MnO}_3 \cdot (1-x)\text{LiMO}_2$ (M=Mn, Ni, Co): Electrochemical, differential electrochemical mass spectrometric, in situ pressure, and in situ temperature characterization. <i>Electrochimica Acta</i> , 2013, 93, 114-119.	2.6	64
121	Critical aspects in the development of lithium-air batteries. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1793-1807.	1.2	71
122	Memory effect in a lithium-ion battery. <i>Nature Materials</i> , 2013, 12, 569-575.	13.3	287
123	Size controlled CuO nanoparticles for Li-ion batteries. <i>Journal of Power Sources</i> , 2013, 241, 415-422.	4.0	79
124	Ammonolyzed MoO_3 Nanobelts as Novel Cathode Material of Rechargeable Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2013, 3, 606-614.	10.2	102
125	Influence of Cut-Off Potential on the Electrochemistry of $\text{M}_{0.5}\text{TiOPO}_4$ (M =) <small>Tj ETQq1 1 0.784314 ggBT /Over 1.3 15</small>	1.3	15
126	Microcalorimetric Measurements of the Solvent Contribution to the Entropy Changes upon Electrochemical Lithium Bulk Deposition. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13233-13237.	7.2	26

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127	Chemical surface treatments for decreasing irreversible charge loss and preventing exfoliation of graphite in Li-ion batteries. <i>Electrochimica Acta</i> , 2012, 82, 233-242.	2.6	22
128	Lithium-Sulfur Battery Development. ECS Meeting Abstracts, 2012, , .	0.0	0
129	Formation of artificial solid electrolyte interphase by grafting for improving Li-ion intercalation and preventing exfoliation of graphite. <i>Carbon</i> , 2012, 50, 2599-2614.	5.4	46
130	A structural and electrochemical study of Ni _{0.5} TiOPO ₄ synthesized via modified solution route. <i>Electrochimica Acta</i> , 2012, 77, 244-249.	2.6	12
131	Influence of different electrode compositions and binder materials on the performance of lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2012, 205, 420-425.	4.0	109
132	Reactions in the Rechargeable Lithium-O ₂ Battery with Alkyl Carbonate Electrolytes. <i>Journal of the American Chemical Society</i> , 2011, 133, 8040-8047.	6.6	1,157
133	Microwave-assisted solution synthesis of doped LiFePO ₄ with high specific charge and outstanding cycling performance. <i>Journal of Materials Chemistry</i> , 2011, 21, 5881.	6.7	76
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