

# Xinqun Cheng

## List of Publications by Year in descending order

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105  
papers

5,393  
citations

66343

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106  
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106  
docs citations

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times ranked

6183  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen vacancies Nb <sub>2</sub> O <sub>5</sub> ·: Ultrastable lithium storage anode materials for advanced rechargeable batteries. Applied Surface Science, 2022, 600, 154068.	6.1	10
2	Engineering Molecular Polymerization for Template-Free SiO <sub>x</sub> /C Hollow Spheres as Ultrastable Anodes in Lithium-Ion Batteries. Advanced Functional Materials, 2021, 31, 2101145.	14.9	74
3	Electrochemical behaviors in the anode of LiCoO <sub>2</sub> /mesocarbon microbead battery and their impacts on the capacity degradation. Ionics, 2021, 27, 2353-2365.	2.4	2
4	Unraveling the Relationship between Ti <sup>4+</sup> Doping and Li <sup>+</sup> Mobility Enhancement in Ti <sup>4+</sup> Doped Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> . ACS Applied Energy Materials, 2020, 3, 715-722.	5.1	11
5	Facile carbon fiber-sewed high areal density electrode for lithium sulfur batteries. Chemical Communications, 2020, 56, 10758-10761.	4.1	9
6	Surface nitrided and carbon coated TiNb <sub>2</sub> O <sub>7</sub> anode material with excellent performance for lithium-ion batteries. Journal of Alloys and Compounds, 2020, 835, 155241.	5.5	20
7	Superior Electrochemical Performance of WNb <sub>2</sub> O <sub>8</sub> Nanorods Triggered by Ultra-Efficient Li <sup>+</sup> Diffusion. ChemistrySelect, 2020, 5, 1209-1213.	1.5	11
8	Layer-by-Layer Engineered Silicon-Based Sandwich Nanomat as Flexible Anode for Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 39970-39978.	8.0	26
9	Progressive concentration gradient nickel-rich oxide cathode material for high-energy and long-life lithium-ion batteries. Journal of Materials Chemistry A, 2019, 7, 7728-7735.	10.3	61
10	Amorphous carbon-encapsulated Si nanoparticles loading on MCMB with sandwich structure for lithium ion batteries. Electrochimica Acta, 2019, 306, 590-598.	5.2	41
11	Understanding the Structural Evolution and Lattice Water Movement for Rhombohedral Nickel Hexacyanoferrate upon Sodium Migration. ACS Applied Materials & Interfaces, 2019, 11, 46705-46713.	8.0	31
12	A Nanostructured Si/SiOC Composite Anode with Volume-Change-Buffering Microstructure for Lithium-Ion Batteries. Chemistry - A European Journal, 2019, 25, 2604-2609.	3.3	27
13	A multifunctional silicotungstic acid-modified Li-rich manganese-based cathode material with excellent electrochemical properties. Journal of Solid State Electrochemistry, 2019, 23, 101-108.	2.5	1
14	ZIF-8 with Ferrocene Encapsulated: A Promising Precursor to Single-Atom Fe Embedded Nitrogen-Doped Carbon as Highly Efficient Catalyst for Oxygen Electoreduction. Small, 2018, 14, e1704282.	10.0	202
15	Unravelling the Enhanced High-Temperature Performance of Lithium-Rich Oxide Cathode with Methyl Diphenylphosphinite as Electrolyte Additive. ChemElectroChem, 2018, 5, 1569-1575.	3.4	29
16	Polyaniline-encapsulated silicon on three-dimensional carbon nanotubes foam with enhanced electrochemical performance for lithium-ion batteries. Journal of Power Sources, 2018, 381, 156-163.	7.8	80
17	A two-dimensional nitrogen-rich carbon/silicon composite as high performance anode material for lithium ion batteries. Chemical Engineering Journal, 2018, 341, 37-46.	12.7	95
18	3D hierarchical Co/CoO/C nanocomposites with mesoporous microsheets grown on nickel foam as cathodes for Li-O <sub>2</sub> batteries. Journal of Alloys and Compounds, 2018, 749, 378-384.	5.5	18

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19	Polymeric multilayer-modified manganese dioxide with hollow porous structure as sulfur host for lithium sulfur batteries. <i>Electrochimica Acta</i> , 2018, 259, 440-448.	5.2	27
20	Enabling reliable lithium metal batteries by a bifunctional anionic electrolyte additive. <i>Energy Storage Materials</i> , 2018, 11, 197-204.	18.0	117
21	Pseudocapacitive Li <sup>+</sup> intercalation in porous Ti <sub>2</sub> Nb <sub>10</sub> O <sub>29</sub> nanospheres enables ultra-fast lithium storage. <i>Energy Storage Materials</i> , 2018, 11, 57-66.	18.0	163
22	State of health diagnosis model for lithium ion batteries based on real-time impedance and open circuit voltage parameters identification method. <i>Energy</i> , 2018, 144, 647-656.	8.8	69
23	Rapid Prediction of the Open-Circuit-Voltage of Lithium Ion Batteries Based on an Effective Voltage Relaxation Model. <i>Energies</i> , 2018, 11, 3444.	3.1	18
24	Toward Promising Turnkey Solution for Next-Generation Lithium Ion Batteries: Scale Preparation, Fading Analysis, and Enhanced Performance of Microsized Si/C Composites. <i>ACS Applied Energy Materials</i> , 2018, 1, 6977-6985.	5.1	10
25	Accelerated Aging Analysis on Cycle Life of LiFePO <sub>4</sub> /Graphite Batteries Based on Different Rates. <i>ChemElectroChem</i> , 2018, 5, 2301-2309.	3.4	10
26	Sol-gel synthesis of preceramic polyphenylsilsesquioxane aerogels and their application toward monolithic porous SiOC ceramics. <i>Ceramics International</i> , 2018, 44, 14947-14951.	4.8	19
27	Unravelling the Interface Layer Formation and Gas Evolution/Suppression on a TiNb <sub>2</sub> O <sub>7</sub> Anode for Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27056-27062.	8.0	47
28	Accelerated aging and degradation mechanism of LiFePO <sub>4</sub> /graphite batteries cycled at high discharge rates. <i>RSC Advances</i> , 2018, 8, 25695-25703.	3.6	40
29	Excellent room-temperature performance of lithium metal polymer battery with enhanced interfacial compatibility. <i>Electrochimica Acta</i> , 2018, 283, 1261-1268.	5.2	7
30	Influence of accidental overcharging on the performance and degradation mechanisms of LiCoO <sub>2</sub> /mesocarbon microbead battery. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 3743-3750.	2.5	13
31	Free-Standing Sandwich-Type Graphene/Nanocellulose/Silicon Laminar Anode for Flexible Rechargeable Lithium Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29638-29646.	8.0	63
32	Superior performance of ordered macroporous TiNb <sub>2</sub> O <sub>7</sub> anodes for lithium ion batteries: Understanding from the structural and pseudocapacitive insights on achieving high rate capability. <i>Nano Energy</i> , 2017, 34, 15-25.	16.0	351
33	Improved electrochemical performance of micro-sized SiO <sub>2</sub> -based composite anode by prelithiation of stabilized lithium metal powder. <i>Journal of Power Sources</i> , 2017, 347, 170-177.	7.8	129
34	A New Anion Receptor for Improving the Interface between Lithium- and Manganese-Rich Layered Oxide Cathode and the Electrolyte. <i>Chemistry of Materials</i> , 2017, 29, 2141-2149.	6.7	44
35	Improved Rate Performance of Lithium Sulfur Batteries by In-Situ Anchoring of Lithium Iodide in Carbon/Sulfur Cathode. <i>Electrochimica Acta</i> , 2017, 238, 257-262.	5.2	30
36	Facilitating the redox reaction of polysulfides by an electrocatalytic layer-modified separator for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10936-10945.	10.3	87

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37	Improved high-voltage performance of $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ cathode with $\text{Tris}(2,2,2\text{-trifluoroethyl})$ phosphite as electrolyte additive. <i>Electrochimica Acta</i> , 2017, 243, 72-81.	5.2	29
38	Pseudocapacitive $\text{Li}^+$ intercalation in $\text{ZnO}/\text{ZnO}@\text{C}$ composites enables high-rate lithium-ion storage and stable cyclability. <i>Ceramics International</i> , 2017, 43, 11998-12004.	4.8	28
39	Electronically Conductive Sb-doped $\text{SnO}_2$ Nanoparticles Coated $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ Cathode Material with Enhanced Electrochemical Properties for Li-ion Batteries. <i>Electrochimica Acta</i> , 2017, 236, 273-279.	5.2	61
40	Changes of Degradation Mechanisms of $\text{LiFePO}_4/\text{Graphite}$ Batteries Cycled at Different Ambient Temperatures. <i>Electrochimica Acta</i> , 2017, 237, 248-258.	5.2	51
41	Hierarchical ordered macroporous/ultrathin mesoporous carbon architecture: A promising cathode scaffold with excellent rate performance for rechargeable Li-O <sub>2</sub> batteries. <i>Carbon</i> , 2017, 118, 139-147.	10.3	50
42	Lithium Cobalt Oxides Functionalized by Conductive Al-doped ZnO Coating as Cathode for High-performance Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2017, 224, 96-104.	5.2	31
43	Prediction Model and Principle of End-of-Life Threshold for Lithium Ion Batteries Based on Open Circuit Voltage Drifts. <i>Electrochimica Acta</i> , 2017, 255, 83-91.	5.2	11
44	Self-doping $\text{Ti}_1\text{-Nb}_2\text{O}_7$ anode material for lithium-ion battery and its electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2017, 728, 534-540.	5.5	40
45	Mixed lithium ion and electron conducting $\text{LiAlPO}_3.93\text{F}_{1.07}$ -coated $\text{LiCoO}_2$ cathode with improved electrochemical performance. <i>Electrochemistry Communications</i> , 2017, 83, 106-109.	4.7	28
46	A Mild Surface Washing Method Using Protonated Polyaniline for Ni-rich $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Material of Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2017, 248, 534-540.	5.2	89
47	1,3,6-Hexanetricarbonitrile as electrolyte additive for enhancing electrochemical performance of high voltage Li-rich layered oxide cathode. <i>Journal of Power Sources</i> , 2017, 361, 227-236.	7.8	68
48	Clew-like N-doped multiwalled carbon nanotube aggregates derived from metal-organic complexes for lithium-sulfur batteries. <i>Carbon</i> , 2017, 122, 635-642.	10.3	39
49	Interface Modifications by $\text{Tris}(2,2,2\text{-trifluoroethyl})$ Borate for Improving the High-Voltage Performance of $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ Cathode. <i>Journal of the Electrochemical Society</i> , 2017, 164, A1924-A1932.	2.9	13
50	Micro-sized spherical silicon@carbon@graphene prepared by spray drying as anode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 723, 434-440.	5.5	89
51	High-rate capability of three-dimensionally ordered macroporous $\text{T-Nb}_2\text{O}_5$ through $\text{Li}^+$ intercalation pseudocapacitance. <i>Journal of Power Sources</i> , 2017, 361, 80-86.	7.8	139
52	Improved electrochemical performance of $\text{NaAlO}_2$ -coated $\text{LiCoO}_2$ for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 1195-1201.	2.5	21
53	Hydrothermal Self-Assembly Synthesis of Porous $\text{SnO}_2/\text{Graphene}$ Nanocomposite as an Anode Material for Lithium Ion Batteries. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 1877-1883.	0.9	2
54	A Novel One-dimensional Reduced Graphene Oxide/Sulfur Nanoscroll Material and its Application in Lithium Sulfur Batteries. <i>Electrochimica Acta</i> , 2016, 222, 1861-1869.	5.2	31

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55	Effect of short-time external short circuiting on the capacity fading mechanism during long-term cycling of LiCoO <sub>2</sub> /mesocarbon microbeads battery. Journal of Power Sources, 2016, 318, 154-162.	7.8	30
56	Understanding undesirable anode lithium plating issues in lithium-ion batteries. RSC Advances, 2016, 6, 88683-88700.	3.6	292
57	Triphenyl phosphite as an electrolyte additive to improve the cyclic stability of lithium-rich layered oxide cathode for lithium-ion batteries. Electrochimica Acta, 2016, 216, 44-50.	5.2	34
58	Oxygen vacancies in SnO <sub>2</sub> surface coating to enhance the activation of layered Li-Rich Li <sub>1.2</sub> Mn <sub>0.54</sub> Ni <sub>0.13</sub> Co <sub>0.13</sub> O <sub>2</sub> cathode material for Li-ion batteries. Journal of Power Sources, 2016, 331, 91-99.	7.8	95
59	Degradation mechanism of over-charged LiCoO <sub>2</sub> /mesocarbon microbeads battery during shallow depth of discharge cycling. Journal of Power Sources, 2016, 329, 255-261.	7.8	28
60	Recovery Strategy and Mechanism of Aged Lithium Ion Batteries after Shallow Depth of Discharge at Elevated Temperature. ACS Applied Materials & Interfaces, 2016, 8, 5234-5242.	8.0	17
61	Lithium Phosphorus Oxynitride Coated Concentration Gradient Li[Ni <sub>0.73</sub> Co <sub>0.12</sub> Mn <sub>0.15</sub> ]O <sub>2</sub> Cathode Material with Enhanced Electrochemical Properties. Electrochimica Acta, 2016, 192, 340-345.	5.2	33
62	Facile synthesis of binder-free reduced graphene oxide/silicon anode for high-performance lithium ion batteries. Journal of Power Sources, 2016, 312, 216-222.	7.8	31
63	Role of fluorine surface modification in improving electrochemical cyclability of concentration gradient Li[Ni <sub>0.73</sub> Co <sub>0.12</sub> Mn <sub>0.15</sub> ]O <sub>2</sub> cathode material for Li-ion batteries. RSC Advances, 2016, 6, 26307-26316.	3.6	28
64	Synthesis and electrochemical performance of hierarchical nanocomposite of carbon coated LiCoPO <sub>4</sub> crosslinked by graphene. Materials Chemistry and Physics, 2016, 171, 6-10.	4.0	18
65	Influence of fluoroethylene carbonate as co-solvent on the high-voltage performance of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode for lithium-ion batteries. Electrochimica Acta, 2016, 191, 8-15.	5.2	45
66	Improved electrochemical performance and capacity fading mechanism of nano-sized LiMn <sub>0.9</sub> Fe <sub>0.1</sub> PO <sub>4</sub> cathode modified by polyacene coating. Journal of Materials Chemistry A, 2015, 3, 1569-1579.	10.3	64
67	A novel nanoporous Fe-doped lithium manganese phosphate material with superior long-term cycling stability for lithium-ion batteries. Nanoscale, 2015, 7, 11509-11514.	5.6	40
68	High-performance carbon-coated LiMnPO <sub>4</sub> nanocomposites by facile two-step solid-state synthesis for lithium-ion battery. Journal of Solid State Electrochemistry, 2015, 19, 281-288.	2.5	23
69	Al <sub>2</sub> O <sub>3</sub> Coated Concentration-Gradient Li[Ni <sub>0.73</sub> Co <sub>0.12</sub> Mn <sub>0.15</sub> ]O <sub>2</sub> Cathode Material by Freeze Drying for Long-Life Lithium Ion Batteries. Electrochimica Acta, 2015, 174, 1185-1191.	5.2	61
70	Facile synthesis of nanostructured TiNb <sub>2</sub> O <sub>7</sub> anode materials with superior performance for high-rate lithium ion batteries. Chemical Communications, 2015, 51, 17293-17296.	4.1	108
71	Electrochemical performance degeneration mechanism of LiCoO <sub>2</sub> with high state of charge during long-term charge/discharge cycling. RSC Advances, 2015, 5, 81235-81242.	3.6	31
72	Capacity fading mechanism during long-term cycling of over-discharged LiCoO <sub>2</sub> /mesocarbon microbeads battery. Journal of Power Sources, 2015, 293, 1006-1015.	7.8	88

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73	Lithium-rich $\text{Li}_{1.2}\text{Ni}_{0.13}\text{Co}_{0.13}\text{Mn}_{0.54}\text{O}_2$ oxide coated by $\text{Li}_3\text{PO}_4$ and carbon nanocomposite layers as high performance cathode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2634-2641.	10.3	103
74	Enhancement of low-temperature performance of $\text{LiFePO}_4$ electrode by butyl sultone as electrolyte additive. <i>Solid State Ionics</i> , 2014, 254, 27-31.	2.7	37
75	Lithium deposition on graphite anode during long-term cycles and the effect on capacity loss. <i>RSC Advances</i> , 2014, 4, 26335-26341.	3.6	36
76	An Li-rich oxide cathode material with mosaic spinel grain and a surface coating for high performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15640.	10.3	75
77	Lithium Compound Deposition on Mesocarbon Microbead Anode of Lithium Ion Batteries after Long-Term Cycling. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12962-12970.	8.0	29
78	Enhancement of high voltage cycling performance and thermal stability of $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ cathode by use of boron-based additives. <i>Solid State Ionics</i> , 2014, 263, 146-151.	2.7	47
79	Improved electrochemical performance of nano-crystalline $\text{Li}_2\text{FeSiO}_4/\text{C}$ cathode material prepared by the optimization of sintering temperature. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1955-1959.	2.5	14
80	A facile strategy to prepare nano-crystalline $\text{Li}_4\text{Ti}_5\text{O}_{12}/\text{C}$ anode material via polyvinyl alcohol as carbon source for high-rate rechargeable Li-ion batteries. <i>Electrochimica Acta</i> , 2013, 93, 173-178.	5.2	53
81	High-performance $\text{LiFePO}_4$ cathode material from $\text{FePO}_4$ microspheres with carbon nanotube networks embedded for lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 223, 100-106.	7.8	75
82	Facile preparation of $\text{Li}_4\text{Ti}_5\text{O}_{12}/\text{AB}/\text{MWCNTs}$ composite with high-rate performance for lithium ion battery. <i>Electrochimica Acta</i> , 2013, 94, 294-299.	5.2	25
83	Fluoroethylene carbonate as electrolyte additive to improve low temperature performance of $\text{LiFePO}_4$ electrode. <i>Electrochimica Acta</i> , 2013, 87, 466-472.	5.2	137
84	Hydrothermal-assisted sol-gel synthesis of $\text{Li}_4\text{Ti}_5\text{O}_{12}/\text{C}$ nano-composite for high-energy lithium-ion batteries. <i>Solid State Ionics</i> , 2013, 244, 52-56.	2.7	44
85	Ascorbic acid-assisted solvothermal synthesis of $\text{LiMn}_{0.9}\text{Fe}_{0.1}\text{PO}_4/\text{C}$ nanoplatelets with enhanced electrochemical performance for lithium ion batteries. <i>Journal of Power Sources</i> , 2013, 243, 872-879.	7.8	43
86	Changing of SEI Film and Electrochemical Properties about MCMB Electrodes during Long-Term Charge/Discharge Cycles. <i>Journal of the Electrochemical Society</i> , 2013, 160, A2093-A2099.	2.9	44
87	Highly efficient and stable nonplatinum anode catalyst with $\text{Au}@\text{Pd}$ core-shell nanostructures for methanol electrooxidation. <i>Journal of Catalysis</i> , 2012, 295, 217-222.	6.2	68
88	Effects of carbon on the structure and electrochemical performance of $\text{Li}_2\text{FeSiO}_4$ cathode materials for lithium-ion batteries. <i>RSC Advances</i> , 2012, 2, 6994.	3.6	30
89	Effects of VC-LiBOB binary additives on SEI formation in ionic liquid-organic composite electrolyte. <i>RSC Advances</i> , 2012, 2, 4097.	3.6	13
90	Improved properties of polymer electrolyte by ionic liquid PP1.3TFSI for secondary lithium ion battery. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 383-389.	2.5	23

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91	The effects of functional ionic liquid on properties of solid polymer electrolyte. Materials Chemistry and Physics, 2011, 128, 250-255.	4.0	20
92	Enhancement of the electrochemical performance of silicon/carbon composite material for lithium ion batteries. Ionics, 2011, 17, 87-90.	2.4	25
93	Enhanced lithium storage performance of silicon anode via fabricating into sandwich electrode. Electrochimica Acta, 2011, 56, 4403-4407.	5.2	22
94	The effects of LiBOB additive for stable SEI formation of PP13TFSI-organic mixed electrolyte in lithium ion batteries. Electrochimica Acta, 2011, 56, 4841-4848.	5.2	53
95	Simple annealing process for performance improvement of silicon anode based on polyvinylidene fluoride binder. Journal of Power Sources, 2010, 195, 2069-2073.	7.8	42
96	Nanosized core/shell silicon@carbon anode material for lithium ion batteries with polyvinylidene fluoride as carbon source. Journal of Materials Chemistry, 2010, 20, 3216.	6.7	168
97	Improvement of cycle performance for silicon/carbon composite used as anode for lithium ion batteries. Materials Chemistry and Physics, 2009, 115, 757-760.	4.0	27
98	Effect of ZnO modification on the performance of LiNi <sub>0.5</sub> Co <sub>0.25</sub> Mn <sub>0.25</sub> O <sub>2</sub> cathode material. Electrochimica Acta, 2009, 54, 5796-5803.	5.2	66
99	Hierarchy carbon paper for the gas diffusion layer of proton exchange membrane fuel cells. Journal of Power Sources, 2009, 187, 505-508.	7.8	27
100	Effect of Ag additive on the performance of LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode material for lithium ion battery. Journal of Power Sources, 2009, 189, 2-8.	7.8	41
101	Synthesis and characterization of carbon-coated LiNi <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> O <sub>2</sub> cathode material prepared by polyvinyl alcohol pyrolysis route. Journal of Alloys and Compounds, 2009, 473, 53-59.	5.5	64
102	Electrochemical investigation of silicon/carbon composite as anode material for lithium ion batteries. Journal of Materials Science, 2008, 43, 3149-3152.	3.7	13
103	Electrochemical Properties of Natural Graphite Fluorinated by ClF <sub>3</sub> and NF <sub>3</sub> in Propylene Carbonate-Containing Solvent. Journal of the Electrochemical Society, 2008, 155, A405.	2.9	4
104	Electrochemical reaction of the SiMn/C composite for anode in lithium ion batteries. Electrochimica Acta, 2006, 52, 1527-1531.	5.2	12
105	The effect of boron doping on lithium intercalation performance of boron-doped carbon materials. Materials Chemistry and Physics, 2003, 80, 94-101.	4.0	35