

# Hyun-wook Lee

## List of Publications by Year in descending order

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120  
papers

23,153  
citations

23500

58  
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25716

108  
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127  
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127  
docs citations

127  
times ranked

21446  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitigating Jahn–Teller Effects by Fast Electrode Kinetics Inducing Charge Redistribution. <i>Advanced Functional Materials</i> , 2022, 32, 2111901.	7.8	18
2	Nitrogen Plasma-Assisted Functionalization of Silicon/Graphite Anodes to Enable Fast Kinetics. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 5237-5246.	4.0	14
3	Role of Areal Capacity in Determining Short Circuiting of Sulfide-Based Solid-State Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 4051-4060.	4.0	35
4	Strong interfacial energetics between catalysts and current collectors in aqueous sodium–air batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4601-4610.	5.2	10
5	Understanding the Role of a Water-Soluble Catechol-Functionalized Binder for Silicon Anodes by Diverse In Situ Analyses. , 2022, 4, 831-839.		15
6	Universal Solution Synthesis of Sulfide Solid Electrolytes Using Alkalest for All-Solid-State Batteries. <i>Advanced Materials</i> , 2022, 34, e2200083.	11.1	36
7	Prussian Blue Nanolayer-Embedded Separator for Selective Segregation of Nickel Dissolution in High Nickel Cathodes. <i>Nano Letters</i> , 2022, 22, 1804-1811.	4.5	10
8	Mitigating Jahn–Teller Effects by Fast Electrode Kinetics Inducing Charge Redistribution (Adv. Funct.) Tj ETQq0 0,0 rgBT /Overlock 10 T	7.8	1
9	Support structure-catalyst electroactivity relation for oxygen reduction reaction on platinum supported by two-dimensional titanium carbide. <i>Nano Energy</i> , 2021, 79, 105363.	8.2	23
10	The Role of Polymer and Inorganic Coatings to Enhance Interparticle Connections Diagnosed by <i>In Situ</i> Techniques. <i>Nano Letters</i> , 2021, 21, 1530-1537.	4.5	9
11	Linking void and interphase evolution to electrochemistry in solid-state batteries using operando X-ray tomography. <i>Nature Materials</i> , 2021, 20, 503-510.	13.3	194
12	Efficient Low-Grade Heat Harvesting Enabled by Tuning the Hydration Entropy in an Electrochemical System. <i>Advanced Materials</i> , 2021, 33, e2004717.	11.1	22
13	Na/Al Codoped Layered Cathode with Defects as Bifunctional Electrocatalyst for High-Performance Li-ion Battery and Oxygen Evolution Reaction. <i>Small</i> , 2021, 17, e2005605.	5.2	31
14	Low-Grade Heat Harvesting: Efficient Low-Grade Heat Harvesting Enabled by Tuning the Hydration Entropy in an Electrochemical System (Adv. Mater. 13/2021). <i>Advanced Materials</i> , 2021, 33, 2170096.	11.1	0
15	Anomalous Si-based composite anode design by densification and coating strategies for practical applications in Li-ion batteries. <i>Composites Part B: Engineering</i> , 2021, 215, 108799.	5.9	29
16	Stack Pressure Measurements to Probe the Evolution of the Lithium–Solid-State Electrolyte Interface. <i>ACS Energy Letters</i> , 2021, 6, 3261-3269.	8.8	66
17	Synthesis of porous CuCo <sub>2</sub> O <sub>4</sub> nanorods/reduced graphene oxide composites via a facile microwave hydrothermal method for high-performance hybrid supercapacitor applications. <i>Electrochimica Acta</i> , 2021, 390, 138865.	2.6	23
18	In situ visualization of zinc plating in gel polymer electrolyte. <i>Electrochimica Acta</i> , 2021, 391, 138877.	2.6	6

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19	Stress evolution during cycling of alloy-anode solid-state batteries. <i>Joule</i> , 2021, 5, 2450-2465.	11.7	85
20	Chemical Stability and Degradation Mechanism of Solid Electrolytes/Aqueous Media at a Steady State for Long-Lasting Sodium Batteries. <i>Chemistry of Materials</i> , 2021, 33, 126-135.	3.2	14
21	Vertically aligned carbon nanotubular structure for guiding uniform lithium deposition via capillary pressure as stable metallic lithium anodes. <i>Energy Storage Materials</i> , 2020, 24, 602-609.	9.5	34
22	Electrochemo-Mechanical Properties of Red Phosphorus Anodes in Lithium, Sodium, and Potassium Ion Batteries. <i>Matter</i> , 2020, 3, 2012-2028.	5.0	25
23	Pyridinic-to-graphitic conformational change of nitrogen in graphitic carbon nitride by lithium coordination during lithium plating. <i>Energy Storage Materials</i> , 2020, 31, 505-514.	9.5	20
24	Back Cover: Enhanced Functional Properties of $Ti_3C_2Tx$ MXenes as Negative Electrodes in Sodium-Ion Batteries by Chemical Tuning (Small Methods 9/2020). <i>Small Methods</i> , 2020, 4, 2070037.	4.6	0
25	An electrochromic alarm system for smart contact lenses. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128601.	4.0	20
26	Unveiling interfacial dynamics and structural degradation of solid electrolytes in a seawater battery system. <i>Journal of Materials Chemistry A</i> , 2020, 8, 21804-21811.	5.2	8
27	Tailoring Solution-Processable Li Argyrodites $Li_6PS_5I$ ( $M = Ge, Sn$ ) and Their Microstructural Evolution Revealed by Cryo-TEM for All-Solid-State Batteries. <i>Nano Letters</i> , 2020, 20, 4337-4345.	4.5	67
28	Structure-dependent sodium ion storage mechanism of cellulose nanocrystal-based carbon anodes for highly efficient and stable batteries. <i>Journal of Power Sources</i> , 2020, 468, 228371.	4.0	24
29	Enhanced Functional Properties of $Ti_3C_2Tx$ MXenes as Negative Electrodes in Sodium-Ion Batteries by Chemical Tuning. <i>Small Methods</i> , 2020, 4, 2000314.	4.6	27
30	Understanding the conversion mechanism and performance of monodisperse $FeF_2$ nanocrystal cathodes. <i>Nature Materials</i> , 2020, 19, 644-654.	13.3	97
31	Mechanical rolling formation of interpenetrated lithium metal/lithium tin alloy foil for ultrahigh-rate battery anode. <i>Nature Communications</i> , 2020, 11, 829.	5.8	246
32	Electrical Conductivity Gradient Based on Heterofibrous Scaffolds for Stable Lithium-Metal Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1908868.	7.8	64
33	Selective Ion Sweeping on Prussian Blue Analogue Nanoparticles and Activated Carbon for Electrochemical Kinetic Energy Harvesting. <i>Nano Letters</i> , 2020, 20, 1800-1807.	4.5	8
34	Side-View Operando Optical Microscopy Analysis of a Graphite Anode to Study Its Kinetic Hysteresis. <i>ChemSusChem</i> , 2020, 13, 1480-1484.	3.6	16
35	Electrochromic Alarm System with Computer Vision in Smart Contact Lens. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 2081-2081.	0.0	1
36	Hexacyanometalate-Based Redox Couple for High-Efficiency Iron-Chromium Flow Battery. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 1048-1048.	0.0	0

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37	Native Void Space for Maximum Volumetric Capacity in Silicon-Based Anodes. <i>Nano Letters</i> , 2019, 19, 8793-8800.	4.5	36
38	Ordered Mesoporous Metastable $\text{MoC}$ with Enhanced Water Dissociation Capability for Boosting Alkaline Hydrogen Evolution Activity. <i>Advanced Functional Materials</i> , 2019, 29, 1901217.	7.8	92
39	Graphene oxide nanosheet as a two-dimensional polyelectrolyte: pH-responsive behavior of a multilayered nanomembrane. <i>Journal of Membrane Science</i> , 2019, 585, 191-198.	4.1	27
40	Highly robust silicon bimorph plate anode and its mechanical analysis upon electrochemical lithiation. <i>Energy Storage Materials</i> , 2019, 23, 292-298.	9.5	2
41	Tailored Assembly of Molecular Water Oxidation Catalysts on Photoelectrodes for Artificial Photosynthesis. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2040-2057.	1.0	28
42	Interface Engineering of Hematite with Nacre-like Catalytic Multilayers for Solar Water Oxidation. <i>ACS Nano</i> , 2019, 13, 467-475.	7.3	43
43	Nanocrevasse-Rich Carbon Fibers for Stable Lithium and Sodium Metal Anodes. <i>Nano Letters</i> , 2019, 19, 1504-1511.	4.5	123
44	Robust Pitch on Silicon Nanolayer-Embedded Graphite for Suppressing Undesirable Volume Expansion. <i>Advanced Energy Materials</i> , 2019, 9, 1803121.	10.2	107
45	The Chemical Stability of Nasicon As a Solid Electrolyte for Seawater Batteries. <i>ECS Meeting Abstracts</i> , 2019, MA2019-02, 73-73.	0.0	2
46	Innate Voids of Halloysite Enabling High-Volumetric Density Anodes for Silicon/Graphite Composites. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
47	Side-View Operando microscopy of Graphite Anodes to Understand Kinetic Hysteresis. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
48	The Pyridinic-to-Graphitic Conformational Change of Nitrogen of Graphitic Carbon Nitride on Lithium Coordination during Lithium Plating. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
49	(Invited) Nanocrevasse-Rich Carbon Fibers for Scalable Production and Stable Performance of Lithium and Sodium Metal Anodes. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
50	Impact of Textural Properties of Mesoporous Porphyrinic Carbon Electrocatalysts on Oxygen Reduction Reaction Activity. <i>ChemElectroChem</i> , 2018, 5, 1928-1936.	1.7	25
51	Fluoroethylene Carbonate-Based Electrolyte with 1 M Sodium Bis(fluorosulfonyl)imide Enables High-Performance Sodium Metal Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 15270-15280.	4.0	133
52	Suppressing Polysulfide Dissolution via Cohesive Forces by Interwoven Carbon Nanofibers for High-Areal-Capacity Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2018, 18, 475-481.	4.5	137
53	Promoting Oxygen Reduction Reaction Activity of Fe-N/C Electrocatalysts by Silica-Coating-Mediated Synthesis for Anion-Exchange Membrane Fuel Cells. <i>Chemistry of Materials</i> , 2018, 30, 6684-6701.	3.2	105
54	Lithium Silicide Surface Enrichment: A Solution to Lithium Metal Battery. <i>Advanced Materials</i> , 2018, 30, e1801745.	11.1	163

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55	Realizing High-Performance Li <sup>+</sup> Polysulfide Full Cells by using a Lithium Bis(trifluoromethanesulfonyl)imide Salt Electrolyte for Stable Cyclability. <i>ChemSusChem</i> , 2018, 11, 3402-3409.	3.6	8
56	Enhanced Mechanical Properties of Polymer Nanocomposites Using Dopamine-Modified Polymers at Nanoparticle Surfaces in Very Low Molecular Weight Polymers. <i>ACS Macro Letters</i> , 2018, 7, 962-967.	2.3	23
57	Engineering the Electrochemical Temperature Coefficient for Efficient Low-Grade Heat Harvesting. <i>Advanced Functional Materials</i> , 2018, 28, 1803129.	7.8	64
58	Diffusion controlled multilayer electrocatalysts <i>via</i> graphene oxide nanosheets of varying sizes. <i>Nanoscale</i> , 2018, 10, 16159-16168.	2.8	22
59	Coordination Polymers for High-Capacity Li-Ion Batteries: Metal-Dependent Solid-State Reversibility. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22110-22118.	4.0	31
60	Self-adaptive Si/reduced graphene oxide scrolls for high-performance Li-ion battery anodes. <i>Carbon</i> , 2017, 120, 397-404.	5.4	51
61	Solid-State Lithium-Sulfur Batteries Operated at 37 °C with Composites of Nanostructured Li <sub>7</sub> La <sub>3</sub> Zr <sub>2</sub> O <sub>12</sub> /Carbon Foam and Polymer. <i>Nano Letters</i> , 2017, 17, 2967-2972.	4.5	384
62	Encapsulation of Lithium Vanadium Phosphate in Reduced Graphene Oxide for a Lithium-ion Battery Cathode with Stable Elevated Temperature Performance. <i>Electrochimica Acta</i> , 2017, 253, 208-217.	2.6	14
63	A Flexible Glass Fiber Based Freestanding Composite Electrode for High-Performance Lithium Polysulfide Batteries. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700083.	2.7	15
64	Practical considerations of Si-based anodes for lithium-ion battery applications. <i>Nano Research</i> , 2017, 10, 3970-4002.	5.8	102
65	Unveiling the synergistic effect of polysulfide additive and MnO <sub>2</sub> hollow spheres in evolving a stable cyclic performance in Li-S batteries. <i>Chemical Communications</i> , 2017, 53, 8782-8785.	2.2	26
66	<i>In Situ</i> Observation and Electrochemical Study of Encapsulated Sulfur Nanoparticles by MoS <sub>2</sub> Flakes. <i>Journal of the American Chemical Society</i> , 2017, 139, 10133-10141.	6.6	126
67	Extending the Life of Lithium-Based Rechargeable Batteries by Reaction of Lithium Dendrites with a Novel Silica Nanoparticle Sandwiched Separator. <i>Advanced Materials</i> , 2017, 29, 1603987.	11.1	202
68	A Robust Glass Fiber Based Free Standing Composite Electrode for Lithium-Polysulfide Batteries. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
69	Enhanced Intrinsic Catalytic Activity of MnO <sub>2</sub> by Electrochemical Tuning and Oxygen Vacancy Generation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8599-8604.	7.2	107
70	Lithium Sulfide/Metal Nanocomposite as a High-Capacity Cathode Prelithiation Material. <i>Advanced Energy Materials</i> , 2016, 6, 1600154.	10.2	87
71	Enhanced Intrinsic Catalytic Activity of MnO <sub>2</sub> by Electrochemical Tuning and Oxygen Vacancy Generation. <i>Angewandte Chemie</i> , 2016, 128, 8741-8746.	1.6	18
72	Composites of a Prussian Blue Analogue and Gelatin-Derived Nitrogen-Doped Carbon-Supported Porous Spinel Oxides as Electrocatalysts for a Zn-Air Battery. <i>Advanced Energy Materials</i> , 2016, 6, 1601052.	10.2	98

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73	Rapid water disinfection using vertically aligned MoS <sub>2</sub> nanofilms and visible light. Nature Nanotechnology, 2016, 11, 1098-1104.	15.6	681
74	Zn-Air Batteries: Composites of a Prussian Blue Analogue and Gelatin-Derived Nitrogen-Doped Carbon-Supported Porous Spinel Oxides as Electrocatalysts for a Zn-Air Battery (Adv. Energy Mater.)	0.0	0
75	Scalable synthesis of silicon-nanolayer-embedded graphite for high-energy lithium-ion batteries. Nature Energy, 2016, 1, .	19.8	563
76	High-Performance Lithium Metal Negative Electrode with a Soft and Flowable Polymer Coating. ACS Energy Letters, 2016, 1, 1247-1255.	8.8	281
77	Growth of conformal graphene cages on micrometre-sized silicon particles as stable battery anodes. Nature Energy, 2016, 1, .	19.8	609
78	High-capacity battery cathode prelithiation to offset initial lithium loss. Nature Energy, 2016, 1, .	19.8	265
79	Selective deposition and stable encapsulation of lithium through heterogeneous seeded growth. Nature Energy, 2016, 1, .	19.8	1,516
80	A Stretchable Graphitic Carbon/Si Anode Enabled by Conformal Coating of a Self-Healing Elastic Polymer. Advanced Materials, 2016, 28, 2455-2461.	11.1	197
81	Carbothermic reduction synthesis of red phosphorus-filled 3D carbon material as a high-capacity anode for sodium ion batteries. Energy Storage Materials, 2016, 4, 130-136.	9.5	167
82	Perspectives in in situ transmission electron microscopy studies on lithium battery electrodes. Current Opinion in Chemical Engineering, 2016, 12, 37-43.	3.8	26
83	Layered reduced graphene oxide with nanoscale interlayer gaps as a stable host for lithium metal anodes. Nature Nanotechnology, 2016, 11, 626-632.	15.6	1,557
84	In Situ Chemical Synthesis of Lithium Fluoride/Metal Nanocomposite for High Capacity Prelithiation of Cathodes. Nano Letters, 2016, 16, 1497-1501.	4.5	112
85	Design and synthesis of nitrogen and sulfur co-doped porous carbon via two-dimensional interlayer confinement for a high-performance anode material for lithium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 5802-5809.	5.2	92
86	Manganese-cobalt hexacyanoferrate cathodes for sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 4211-4223.	5.2	180
87	Metallurgically lithiated SiO <sub>2</sub> anode with high capacity and ambient air compatibility. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7408-7413.	3.3	145
88	Synthesis, Electrochemical Properties of 3D Structured Red P-Carbon As an Anode Material for Na-Ion Battery. ECS Meeting Abstracts, 2016, , .	0.0	0
89	In Situ Transmission Electron Microscopy Studies on Silicon Anodes in Lithium Ion Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0
90	Prussian Blue Analogue Materials for Sodium-Ion Batteries. ECS Meeting Abstracts, 2016, , .	0.0	0

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91	Ionic Conductivity Enhancement of Polymer Electrolytes with Ceramic Nanowire Fillers. <i>Nano Letters</i> , 2015, 15, 2740-2745.	4.5	782
92	Transparent air filter for high-efficiency PM2.5 capture. <i>Nature Communications</i> , 2015, 6, 6205.	5.8	690
93	Vertical Heterostructure of Two-Dimensional MoS <sub>2</sub> and WSe <sub>2</sub> with Vertically Aligned Layers. <i>Nano Letters</i> , 2015, 15, 1031-1035.	4.5	194
94	Nonfilling Carbon Coating of Porous Silicon Micrometer-Sized Particles for High-Performance Lithium Battery Anodes. <i>ACS Nano</i> , 2015, 9, 2540-2547.	7.3	433
95	Kinetics and fracture resistance of lithiated silicon nanostructure pairs controlled by their mechanical interaction. <i>Nature Communications</i> , 2015, 6, 7533.	5.8	107
96	Artificial Solid Electrolyte Interphase-Protected Li <sub>x</sub> Si Nanoparticles: An Efficient and Stable Prelithiation Reagent for Lithium-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2015, 137, 8372-8375.	6.6	297
97	Bifunctional non-noble metal oxide nanoparticle electrocatalysts through lithium-induced conversion for overall water splitting. <i>Nature Communications</i> , 2015, 6, 7261.	5.8	1,006
98	Reversible Multivalent (Monovalent, Divalent, Trivalent) Ion Insertion in Open Framework Materials. <i>Advanced Energy Materials</i> , 2015, 5, 1401869.	10.2	185
99	A reaction-controlled diffusion model for the lithiation of silicon in lithium-ion batteries. <i>Extreme Mechanics Letters</i> , 2015, 4, 61-75.	2.0	22
100	A phosphorene-graphene hybrid material as a high-capacity anode for sodium-ion batteries. <i>Nature Nanotechnology</i> , 2015, 10, 980-985.	15.6	1,287
101	Electrochemical conversion and storage systems: general discussion. <i>Faraday Discussions</i> , 2014, 176, 153-184.	1.6	1
102	Effect of the alkali insertion ion on the electrochemical properties of nickel hexacyanoferrate electrodes. <i>Faraday Discussions</i> , 2014, 176, 69-81.	1.6	68
103	A pomegranate-inspired nanoscale design for large-volume-change lithium battery anodes. <i>Nature Nanotechnology</i> , 2014, 9, 187-192.	15.6	2,109
104	An electrochemical system for efficiently harvesting low-grade heat energy. <i>Nature Communications</i> , 2014, 5, 3942.	5.8	324
105	High Electrochemical Selectivity of Edge versus Terrace Sites in Two-Dimensional Layered MoS <sub>2</sub> Materials. <i>Nano Letters</i> , 2014, 14, 7138-7144.	4.5	269
106	Manganese hexacyanomanganate open framework as a high-capacity positive electrode material for sodium-ion batteries. <i>Nature Communications</i> , 2014, 5, 5280.	5.8	446
107	Interconnected hollow carbon nanospheres for stable lithium metal anodes. <i>Nature Nanotechnology</i> , 2014, 9, 618-623.	15.6	1,535
108	Ultrathin Two-Dimensional Atomic Crystals as Stable Interfacial Layer for Improvement of Lithium Metal Anode. <i>Nano Letters</i> , 2014, 14, 6016-6022.	4.5	656

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109	Dry-air-stable lithium silicideâ€“lithium oxide coreâ€“shell nanoparticles as high-capacity prelithiation reagents. <i>Nature Communications</i> , 2014, 5, 5088.	5.8	276
110	Formation of Stable Phosphorusâ€“Carbon Bond for Enhanced Performance in Black Phosphorus Nanoparticleâ€“Graphite Composite Battery Anodes. <i>Nano Letters</i> , 2014, 14, 4573-4580.	4.5	764
111	A high power density electrode with ultralow carbon via direct growth of particles on graphene sheets. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6183.	5.2	20
112	Diffusion behavior of sodium ions in Na <sub>0.44</sub> MnO <sub>2</sub> in aqueous and non-aqueous electrolytes. <i>Journal of Power Sources</i> , 2013, 244, 758-763.	4.0	158
113	Influence of Ammonia on Properties of Nanocrystalline Barium Titanate Particles Prepared by a Hydrothermal Method. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2248-2253.	1.9	22
114	Synthesis and Size Control of Tetragonal Barium Titanate Nanopowders by Facile Solvothermal Method. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2429-2434.	1.9	112
115	Facile synthesis and electrochemical performance of ordered LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> nanorods as a high power positive electrode for rechargeable Li-ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 10712-10716.	4.0	63
116	Electrochemical performance and ex situ analysis of ZnMn <sub>2</sub> O <sub>4</sub> nanowires as anode materials for lithium rechargeable batteries. <i>Nano Research</i> , 2011, 4, 505-510.	5.8	170
117	Synthesis of One-dimensional Spinel LiMn <sub>2</sub> O <sub>4</sub> Nanostructures as a Positive Electrode in Lithium Ion Battery. <i>Journal of the Korean Ceramic Society</i> , 2011, 48, 379-383.	1.1	6
118	Ultrathin Spinel LiMn <sub>2</sub> O <sub>4</sub> Nanowires as High Power Cathode Materials for Li-Ion Batteries. <i>Nano Letters</i> , 2010, 10, 3852-3856.	4.5	452
119	Spinel LiMn <sub>2</sub> O <sub>4</sub> Nanorods as Lithium Ion Battery Cathodes. <i>Nano Letters</i> , 2008, 8, 3948-3952.	4.5	579
120	Nanocrevass-Rich Carbon Fibers for Stable Lithium and Sodium Metal Anodes. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0