

# Yong Min Lee

## List of Publications by Year in descending order

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197  
papers

11,736  
citations

34105

52  
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30087

103  
g-index

199  
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199  
docs citations

199  
times ranked

9870  
citing authors

#	ARTICLE	IF	CITATIONS
1	All-solid-state hybrid electrode configuration for high-performance all-solid-state batteries: Comparative study with composite electrode and diffusion-dependent electrode. <i>Journal of Power Sources</i> , 2022, 518, 230736.	7.8	17
2	Highly improved thermal stability of the ceramic coating layer on the polyethylene separator via chemical crosslinking between ceramic particles and polymeric binders. <i>Chemical Engineering Journal</i> , 2022, 433, 134501.	12.7	18
3	Electrode Alignment: Ignored but Important Design Parameter in Assembling Coin-Type Full Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2022, 169, 023502.	2.9	12
4	All-Solid-State Lithium Batteries: Li <sup>+</sup> -Conducting Ionomer Binder for Dry-Processed Composite Cathodes. <i>ACS Energy Letters</i> , 2022, 7, 1092-1100.	17.4	56
5	Understanding the effects of diffusion coefficient and exchange current density on the electrochemical model of lithium-ion batteries. <i>Current Opinion in Electrochemistry</i> , 2022, 34, 100986.	4.8	17
6	Statistical and computational analysis for state-of-health and heat generation behavior of long-term cycled LiNi <sub>0.8</sub> Co <sub>0.15</sub> Al <sub>0.05</sub> O <sub>2</sub> /Graphite cylindrical lithium-ion cells for energy storage applications. <i>Journal of Power Sources</i> , 2022, 529, 231240.	7.8	1
7	Graphite-Silicon Diffusion-Dependent Electrode with Short Effective Diffusion Length for High-Performance All-Solid-State Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	34
8	Electrolyte-free graphite electrode with enhanced interfacial conduction using Li <sup>+</sup> -conductive binder for high-performance all-solid-state batteries. <i>Energy Storage Materials</i> , 2022, 49, 481-492.	18.0	10
9	New Insights on Electrochemical Parameters in Battery Modeling through 3D Digital Twin Structural Analysis. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 185-185.	0.0	0
10	Upgrading the Properties of Ceramic-Coated Separators for Lithium Secondary Batteries by Changing the Mixing Order of the Water-Based Ceramic Slurry Components. <i>Batteries</i> , 2022, 8, 64.	4.5	5
11	A Thermo-Electrochemical Model for Simulating Internal Short Circuits in a Li-Ion Battery Depending on Lithium Dendrites. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 2258-2258.	0.0	0
12	Study of Improving the Thermal Stability of Ceramic Coated Separator Via Chemical Crosslinking between Ceramic Particles and Polymeric Binders. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 2259-2259.	0.0	0
13	Unveiling the Effects of the Diffusivity and Exchange Current Density on the Electrochemical Modeling of Lithium-Ion Battery. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 2252-2252.	0.0	0
14	3D Modeling on Diffusion-Dependent Graphite-Silicon Electrode for All-Solid-State Batteries. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 2260-2260.	0.0	0
15	Robust Cycling of Ultrathin Li-Metal Enabled By Nitrate-Preplanted Li Powder Electrode. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 2253-2253.	0.0	0
16	Submicron interlayer for stabilizing thin Li metal powder electrode. <i>Chemical Engineering Journal</i> , 2021, 406, 126834.	12.7	12
17	Unraveling the limitations of solid oxide electrolytes for all-solid-state electrodes through 3D digital twin structural analysis. <i>Nano Energy</i> , 2021, 79, 105456.	16.0	16
18	Understanding the Selective Deposition of Li Metal on Nonuniform Electrode Surfaces Using Atomic Force Microscopy. <i>Journal of the Electrochemical Society</i> , 2021, 168, 020534.	2.9	0

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19	Effect of electrolyte concentration on electrochromic performance of sputtered tungsten oxide film: Experiments and simulation. <i>Electrochimica Acta</i> , 2021, 369, 137699.	5.2	8
20	Hybrid gel polymer electrolyte based on 1-methyl-1-Propylpyrrolidinium Bis(Trifluoromethanesulfonyl) imide for flexible and shape-variant lithium secondary batteries. <i>Journal of Membrane Science</i> , 2021, 621, 119018.	8.2	39
21	Robust Cycling of Ultrathin Li Metal Enabled by Nitrate-Preplanted Li Powder Composite. <i>Advanced Energy Materials</i> , 2021, 11, 2003769.	19.5	48
22	Interfacial barrier free organic-inorganic hybrid electrolytes for solid state batteries. <i>Energy Storage Materials</i> , 2021, 37, 306-314.	18.0	38
23	Synergistic Effect of a Dual-Salt Liquid Electrolyte with a $\text{LiNO}_3$ Functional Additive toward Stabilizing Thin-Film Li Metal Electrodes for Li Secondary Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 31605-31613.	8.0	14
24	Quantitative Analysis of Solid-State Energy Devices Via 3D Reconstruction Using a FIB/SEM Dual Beam System. <i>ECS Meeting Abstracts</i> , 2021, MA2021-03, 253-253.	0.0	0
25	Revisiting $\text{TiS}_2$ as a diffusion-dependent cathode with promising energy density for all-solid-state lithium secondary batteries. <i>Energy Storage Materials</i> , 2021, 41, 289-296.	18.0	28
26	Large-area surface-patterned Li metal anodes fabricated using large, flexible patterning stamps for Li metal secondary batteries. <i>Journal of Power Sources</i> , 2021, 514, 230553.	7.8	6
27	Ultra-Thin Nitrate-Preplanted Li Powder Composite for Lithium Metal Secondary Battery. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1688-1688.	0.0	0
28	Simulation Model Based Real Time Analysis and Design for Single Secondary Particle. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1680-1680.	0.0	0
29	Effect of $\text{AgNO}_3$ in Lithium Metal Powder Electrodes. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1689-1689.	0.0	0
30	Improving Lithium-Metal Battery Performance under the Conditions of Lean Electrolyte through $\text{MoS}_2$ Coating. <i>ChemElectroChem</i> , 2020, 7, 890-892.	3.4	13
31	Mechanical robustness of composite electrode for lithium ion battery: Insight into entanglement & crystallinity of polymeric binder. <i>Electrochimica Acta</i> , 2020, 332, 135471.	5.2	23
32	Dimension-controlled solid oxide electrolytes for all-solid-state electrodes: Percolation pathways, specific contact area, and effective ionic conductivity. <i>Chemical Engineering Journal</i> , 2020, 391, 123528.	12.7	17
33	Highly Stable Porous Polyimide Sponge as a Separator for Lithium-Metal Secondary Batteries. <i>Nanomaterials</i> , 2020, 10, 1976.	4.1	6
34	Effects of vinylene carbonate and 1,3-propane sultone on high-rate cycle performance and surface properties of high-nickel layered oxide cathodes. <i>Materials Research Bulletin</i> , 2020, 132, 111008.	5.2	19
35	Digital Twin-Driven All-Solid-State Battery: Unraveling the Physical and Electrochemical Behaviors. <i>Advanced Energy Materials</i> , 2020, 10, 2001563.	19.5	42
36	Scaffold-structured polymer binders for long-term cycle performance of stabilized lithium-powder electrodes. <i>Electrochimica Acta</i> , 2020, 364, 136878.	5.2	14

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37	Diffusion-Dependent Graphite Electrode for All-Solid-State Batteries with Extremely High Energy Density. ACS Energy Letters, 2020, 5, 2995-3004.	17.4	53
38	Toward understanding the real mechanical robustness of composite electrode impregnated with a liquid electrolyte. Applied Materials Today, 2020, 21, 100809.	4.3	7
39	Sensitivity of power of lithium-ion batteries to temperature: A case study using cylindrical- and pouch-type cells. Journal of Power Sources, 2020, 465, 228238.	7.8	9
40	Design of Thin-Film Interlayer between Silicon Electrode and Current Collector Using a Chemo-Mechanical Degradation Model. Journal of the Electrochemical Society, 2020, 167, 080542.	2.9	5
41	Hybrid Effect of Micropatterned Lithium Metal and Three Dimensionally Ordered Macroporous Polyimide Separator on the Cycle Performance of Lithium Metal Batteries. ACS Applied Energy Materials, 2020, 3, 3721-3727.	5.1	14
42	Structure-€Controlled Li Metal Electrodes for Post-€Li-€on Batteries: Recent Progress and Perspectives. Advanced Materials Interfaces, 2020, 7, 1902113.	3.7	33
43	Unraveling the cohesive and interfacial adhesive strengths of electrodes for automotive fuel cells. Journal of Power Sources, 2020, 455, 227928.	7.8	5
44	Revisiting the Role of Conductivity and Polarity of Host Materials for Long-€Life Lithium-€Sulfur Battery. Advanced Energy Materials, 2020, 10, 1903934.	19.5	52
45	Cost-effective and strongly integrated fabric-based wearable piezoelectric energy harvester. Nano Energy, 2020, 75, 104992.	16.0	45
46	Effect of Electrolyte Concentration on the Electrochromic Properties of Tungsten Oxide Thin Films. ECS Meeting Abstracts, 2020, MA2020-02, 2072-2072.	0.0	0
47	Real-Time Analysis of a Single Secondary Particle Using an Electrochemical Modeling. ECS Meeting Abstracts, 2020, MA2020-02, 57-57.	0.0	0
48	Development of Flame Retarding Separator for Lithium Ion Battery By Crosslinkable Binder Coating. ECS Meeting Abstracts, 2020, MA2020-02, 3479-3479.	0.0	0
49	Digital Twin-Driven All-Solid-State Lithium-Ion Battery. ECS Meeting Abstracts, 2020, MA2020-02, 993-993.	0.0	0
50	(Invited) Digital Twin-Driven Battery Modeling: Understanding the Physical and Electrochemical Behavior during Fast-Charging. ECS Meeting Abstracts, 2020, MA2020-02, 620-620.	0.0	0
51	Analysis of Mechanical Properties of Composite Electrode with Different Binder Molecular Weights. ECS Meeting Abstracts, 2020, MA2020-02, 3481-3481.	0.0	0
52	Hybrid Effect of Micro-Patterned Lithium Metal and Three Dimensionally Ordered Macroporous Polyimide Separator on the Cycle Performance of Lithium Metal Batteries. ECS Meeting Abstracts, 2020, MA2020-02, 3480-3480.	0.0	0
53	Stabilization of Li Metal Powder Anodes on Cu Foil Current Collectors Using Thin Carbon Interlayers. ECS Meeting Abstracts, 2020, MA2020-02, 3482-3482.	0.0	0
54	Model Approach on Crack Growth within High Nickel Cathode Materials. ECS Meeting Abstracts, 2020, MA2020-02, 3483-3483.	0.0	0

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55	High-Rate Cycling of Lithium-Metal Batteries Enabled by Dual-Salt Electrolyte-Assisted Micropatterned Interfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 31777-31785.	8.0	20
56	Insights into Lithium Surface: Stable Cycling by Controlled 10 $\mu$ m Deep Surface Relief, Reinterpreting the Natural Surface Defect on Lithium Metal Anode. <i>ACS Applied Energy Materials</i> , 2019, 2, 5656-5664.	5.1	16
57	Enabling High-Voltage Lithium-Metal Batteries under Practical Conditions. <i>Joule</i> , 2019, 3, 1662-1676.	24.0	598
58	Effect of the Quantity of Liquid Electrolyte on Self-Healing Electrostatic Shield Mechanism of CsPF <sub>6</sub> Additive for Li Metal Anodes. <i>ACS Omega</i> , 2019, 4, 11724-11727.	3.5	16
59	Surface Reinforcing Balloon Trick-Inspired Separator/Li Metal Integrated Assembly To Improve the Electrochemical Performance of Li Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 43122-43129.	8.0	9
60	Monolithic solid-electrolyte interphases formed in fluorinated orthoformate-based electrolytes minimize Li depletion and pulverization. <i>Nature Energy</i> , 2019, 4, 796-805.	39.5	621
61	Energy efficient electrochemical reduction of CO <sub>2</sub> to CO using a three-dimensional porphyrin/graphene hydrogel. <i>Energy and Environmental Science</i> , 2019, 12, 747-755.	30.8	125
62	Effect of the dielectric constant of a liquid electrolyte on lithium metal anodes. <i>Electrochimica Acta</i> , 2019, 300, 299-305.	5.2	27
63	Thin and porous polymer membrane-based electrochromic devices. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1042-1047.	5.5	14
64	Time-Effective Accelerated Cyclic Aging Analysis of Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2019, 6, 3714-3725.	3.4	4
65	3D electrochemical model for a Single Secondary Particle and its application for operando analysis. <i>Nano Energy</i> , 2019, 62, 810-817.	16.0	16
66	Polydopamine-treated three-dimensional carbon fiber-coated separator for achieving high-performance lithium metal batteries. <i>Journal of Power Sources</i> , 2019, 430, 130-136.	7.8	35
67	High-energy lithium metal pouch cells with limited anode swelling and long stable cycles. <i>Nature Energy</i> , 2019, 4, 551-559.	39.5	492
68	Effect of Varying the Ratio of Carbon Black to Vapor-Grown Carbon Fibers in the Separator on the Performance of Li-S Batteries. <i>Nanomaterials</i> , 2019, 9, 436.	4.1	6
69	Electrode design methodology for all-solid-state batteries: 3D structural analysis and performance prediction. <i>Energy Storage Materials</i> , 2019, 19, 124-129.	18.0	26
70	Critical Parameters for Evaluating Coin Cells and Pouch Cells of Rechargeable Li-Metal Batteries. <i>Joule</i> , 2019, 3, 1094-1105.	24.0	358
71	Suppression of dendrites and granules in surface-patterned Li metal anodes using CsPF <sub>6</sub> . <i>Journal of Power Sources</i> , 2019, 413, 344-350.	7.8	14
72	A crosslinked nonwoven separator based on an organosoluble polyimide for high-performance lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 72, 390-399.	5.8	36

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73	Crosslinkable polyhedral silsesquioxane-based ceramic-coated separators for Li-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 71, 277-283.	5.8	15
74	A Physics-Based Model Capacity Fade Analysis of $\text{LiMn}_2\text{O}_4/\text{Graphite}$ Cell at Different Temperatures. <i>Journal of the Electrochemical Society</i> , 2019, 166, A5109-A5116.	2.9	14
75	High-rate cycling performance and surface analysis of $\text{LiNi}_{1-x}\text{Co}_x\text{Mn}_{2-x}\text{O}_2$ ( $x=2/3, 0.4, 0.2$ ) cathode materials. <i>Materials Chemistry and Physics</i> , 2019, 222, 1-10.	4.0	12
76	Study on dead-Li suppression mechanism of Li-hosting vapor-grown-carbon-nanofiber-based protective layer for Li metal anodes. <i>Journal of Power Sources</i> , 2019, 409, 132-138.	7.8	14
77	Size-Effects of Micropattern on Lithium Metal Surface on the Electrochemical Performance of Lithium Metal Secondary Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
78	A Single Secondary Particle Model for $\text{LiFePO}_4$ Electrochemical Performance Evaluation.. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
79	Study on the Distribution of Polymeric Binder in $\text{LiB}$ Composite Electrodes By Measuring Adhesion at Different Depths. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
80	Effects of a Novel Fluorinated Linear Carbonate Additive on the High Voltage Performance of Lithium Ion Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
81	Three-Dimensional Structural Analysis of All-Solid-State Electrode with Oxide-Based Solid Electrolyte. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
82	New Analytical Method to Reveal the Adhesion Properties in the Composite Electrodes for Lithium-Ion Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
83	Elucidating the Polymeric Binder Distribution within Lithium-Ion Battery Electrodes Using SAICAS. <i>ChemPhysChem</i> , 2018, 19, 1627-1634.	2.1	18
84	Effect of nanopatterning on mechanical properties of Lithium anode. <i>Scientific Reports</i> , 2018, 8, 2514.	3.3	33
85	Enhanced Stability of Lithium Metal Anode by using a 3D Porous Nickel Substrate. <i>ChemElectroChem</i> , 2018, 5, 761-769.	3.4	58
86	Effect of $\text{Al}_2\text{O}_3$ ceramic fillers in $\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$ cathodes for improving high-voltage cycling and rate capability performance. <i>Electrochimica Acta</i> , 2018, 259, 578-586.	5.2	27
87	A facile method to enhance the uniformity and adhesion properties of water-based ceramic coating layers on hydrophobic polyethylene separators. <i>Applied Surface Science</i> , 2018, 427, 139-146.	6.1	50
88	Detrimental Effects of Chemical Crossover from the Lithium Anode to Cathode in Rechargeable Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2018, 3, 2921-2930.	17.4	89
89	Size effects of micro-pattern on lithium metal surface on the electrochemical performance of lithium metal secondary batteries. <i>Journal of Power Sources</i> , 2018, 408, 136-142.	7.8	20
90	Composite protection layers for dendrite-suppressing non-granular micro-patterned lithium metal anodes. <i>Electrochimica Acta</i> , 2018, 282, 343-350.	5.2	29

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91	A coupled chemo-mechanical model to study the effects of adhesive strength on the electrochemical performance of silicon electrodes for advanced lithium ion batteries. Journal of Power Sources, 2018, 407, 153-161.	7.8	14
92	A Localized High-Concentration Electrolyte with Optimized Solvents and Lithium Difluoro(oxalate)borate Additive for Stable Lithium Metal Batteries. ACS Energy Letters, 2018, 3, 2059-2067.	17.4	257
93	Guided Lithium Deposition by Surface Micro-Patterning of Lithium-Metal Electrodes. ChemElectroChem, 2018, 5, 3169-3175.	3.4	22
94	Self-Healing Wide and Thin Li Metal Anodes Prepared Using Calendared Li Metal Powder for Improving Cycle Life and Rate Capability. ACS Applied Materials & Interfaces, 2018, 10, 16521-16530.	8.0	29
95	Localized High-Concentration Sulfone Electrolytes for High-Efficiency Lithium-Metal Batteries. Chem, 2018, 4, 1877-1892.	11.7	628
96	Structural Effect of Conductive Carbons on the Adhesion and Electrochemical Behavior of LiNi <sub>0.4</sub> Mn <sub>0.4</sub> Co <sub>0.2</sub> O <sub>2</sub> Cathode for Lithium Ion Batteries. Journal of Electrochemical Science and Technology, 2018, 9, 330-338.	2.2	11
97	A 1D Mathematical Model to Study the Effects of Adhesive Strength on the Electrochemical Performance of Silicon Electrodes for Advanced Lithium Ion Batteries. ECS Meeting Abstracts, 2018, , .	0.0	0
98	Effect of LiNO <sub>3</sub> Electrolyte Additives for Improved the Rate Capability of Micro-Patterned Lithium Metal Anode. ECS Meeting Abstracts, 2018, , .	0.0	0
99	Polymeric Binder Distribution within LiCoO <sub>2</sub> Electrodes By Using a Surface and Interfacial Cutting Analysis System (SAICAS). ECS Meeting Abstracts, 2018, , .	0.0	0
100	Semi-Empirical Cycle Life Model with Electrolyte Depletion Function for Long Cycle Prediction of Lithium-Ion Battery. ECS Meeting Abstracts, 2018, , .	0.0	0
101	Micro-Patterning Technology and Conformal Protective Coating for Lithium Metal Electrodes. ECS Meeting Abstracts, 2018, , .	0.0	0
102	Unveiling Polymeric Binder Distribution within Electrodes for High-Energy-Density Li-Ion Batteries By Measuring Adhesion Properties As a Function of Depth. ECS Meeting Abstracts, 2018, , .	0.0	0
103	A Study on Overcoming the Inert Capacity of Polymer Sulfide Electrode with Conducting Materials. ECS Meeting Abstracts, 2018, , .	0.0	0
104	Advanced Cycle Life Model Based on 18650 Lithium-Ion Battery Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
105	Enhancing the Cycling Stability of Sodium Metal Electrodes by Building an Inorganic-Organic Composite Protective Layer. ACS Applied Materials & Interfaces, 2017, 9, 6000-6006.	8.0	124
106	Fluorinated Carbonate-Based Electrolyte for High-Voltage Li(Ni <sub>0.5</sub> Mn <sub>0.3</sub> Co <sub>0.2</sub> )O <sub>2</sub> /Graphite Lithium-Ion Battery. Journal of the Electrochemical Society, 2017, 164, A6381-A6385.	2.9	83
107	The effects of humidity on the self-discharge properties of Li(Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> )O <sub>2</sub> /graphite and LiCoO <sub>2</sub> /graphite lithium-ion batteries during storage. RSC Advances, 2017, 7, 10915-10921.	3.6	22
108	Effects of an Integrated Separator/Electrode Assembly on Enhanced Thermal Stability and Rate Capability of Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 17814-17821.	8.0	26



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109	A Flame-Retardant Composite Polymer Electrolyte for Lithium-Ion Polymer Batteries. <i>Electrochimica Acta</i> , 2017, 241, 553-559.	5.2	60
110	Comparative Study of the Adhesion Properties of Ceramic Composite Separators Using a Surface and Interfacial Cutting Analysis System for Lithium-Ion Batteries. <i>ACS Omega</i> , 2017, 2, 2159-2164.	3.5	17
111	Effect of Calcination Temperature on a P-type $\text{Na}_{0.6}\text{Mn}_{0.65}\text{Ni}_{0.25}\text{Co}_{0.10}\text{O}_2$ Cathode Material for Sodium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2017, 164, A6308-A6314.	2.9	32
112	Suppressing Lithium Dendrite Growth by Metallic Coating on a Separator. <i>Advanced Functional Materials</i> , 2017, 27, 1704391.	14.9	141
113	Highly rough copper current collector: improving adhesion property between a silicon electrode and current collector for flexible lithium-ion batteries. <i>RSC Advances</i> , 2017, 7, 35681-35686.	3.6	39
114	Highly stable 2,3,5,6-tetrachloro-1,4-benzoquinone electrodes for supercapacitors. <i>Synthetic Metals</i> , 2017, 231, 25-33.	3.9	7
115	Recycling oil-extracted microalgal biomass residues into nano/micro hierarchical Sn/C composite anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 250, 59-67.	5.2	35
116	Improving the Cycling Performance of Lithium-Ion Battery Si/Graphite Anodes Using a Soluble Polyimide Binder. <i>ACS Omega</i> , 2017, 2, 8438-8444.	3.5	35
117	Semi-empirical long-term cycle life model coupled with an electrolyte depletion function for large-format graphite/LiFePO <sub>4</sub> lithium-ion batteries. <i>Journal of Power Sources</i> , 2017, 365, 257-265.	7.8	52
118	Plasma-assisted water-based Al <sub>2</sub> O <sub>3</sub> ceramic coating for polyethylene-based microporous separators for lithium metal secondary batteries. <i>Electrochimica Acta</i> , 2016, 212, 649-656.	5.2	76
119	Structural modulation of lithium metal-electrolyte interface with three-dimensional metallic interlayer for high-performance lithium metal batteries. <i>Scientific Reports</i> , 2016, 6, 30830.	3.3	74
120	Improvement of low-temperature performance by adopting polydimethylsiloxane-g-polyacrylate and lithium-modified silica nanosalt as electrolyte additives in lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 325-329.	5.8	33
121	Effect of liquid oil additive on lithium-ion battery ceramic composite separator prepared with an aqueous coating solution. <i>Journal of Alloys and Compounds</i> , 2016, 675, 341-347.	5.5	15
122	Design optimization of LiNi <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> O <sub>2</sub> /graphite lithium-ion cells based on simulation and experimental data. <i>Journal of Power Sources</i> , 2016, 319, 147-158.	7.8	62
123	A Mathematical Model for Cyclic Aging of Spinel LiMn <sub>2</sub> O <sub>4</sub> /Graphite Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> , 2016, 163, A2757-A2767.	2.9	31
124	Dopamine as a Novel Electrolyte Additive for High-Voltage Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 21366-21372.	8.0	69
125	Three-Dimensional Adhesion Map Based on Surface and Interfacial Cutting Analysis System for Predicting Adhesion Properties of Composite Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 23688-23695.	8.0	19
126	Mussel-Inspired Polydopamine-Functionalized SuperP as a Conductive Additive for High-Performance Silicon Anodes. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600270.	3.7	14



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127	Mussel-inspired Polydopamine-treated Copper Foil as a Current Collector for High-performance Silicon Anodes. <i>Scientific Reports</i> , 2016, 6, 30945.	3.3	26
128	In-depth correlation of separator pore structure and electrochemical performance in lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 325, 732-738.	7.8	36
129	Micro-Patterned Lithium Metal Anodes with Suppressed Dendrite Formation for Post Lithium-Ion Batteries. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600140.	3.7	149
130	A water-based Al <sub>2</sub> O <sub>3</sub> ceramic coating for polyethylene-based microporous separators for lithium-ion batteries. <i>Journal of Power Sources</i> , 2016, 315, 161-168.	7.8	123
131	Comparative study on experiments and simulation of blended cathode active materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 187, 422-432.	5.2	48
132	Ionomer-Liquid Electrolyte Hybrid Ionic Conductor for High Cycling Stability of Lithium Metal Electrodes. <i>Scientific Reports</i> , 2015, 5, 14458.	3.3	81
133	A simple composite protective layer coating that enhances the cycling stability of lithium metal batteries. <i>Journal of Power Sources</i> , 2015, 284, 103-108.	7.8	211
134	New flame-retardant composite separators based on metal hydroxides for lithium-ion batteries. <i>Electrochimica Acta</i> , 2015, 157, 282-289.	5.2	87
135	Effect of back-side-coated electrodes on electrochemical performances of lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 275, 712-719.	7.8	12
136	Stabilizing effect of 2-(triphenylphosphoranylidene) succinic anhydride as electrolyte additive on the lithium metal of lithium metal secondary batteries. <i>Electrochimica Acta</i> , 2015, 170, 353-359.	5.2	39
137	Synergistic thermal stabilization of ceramic/co-polyimide coated polypropylene separators for lithium-ion batteries. <i>Journal of Power Sources</i> , 2015, 294, 537-544.	7.8	108
138	Highly Adhesive and Soluble Copolyimide Binder: Improving the Long-Term Cycle Life of Silicon Anodes in Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14851-14858.	8.0	96
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