Yong-Hyeok Lee

List of Publications by Year
in descending order

196	11,205	27035	38517
papers	citations	58 h-index	99 g-index

213	213	213	12845
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrile Electrolyte Strategy for 4.9 <scp>Vâ€Class Lithiumâ€Metal</scp> Batteries Operating in Flame. Energy and Environmental Materials, 2023, 6, .	7.3	10
2	Anionâ€Rectifying Polymeric Single Lithiumâ€Ion Conductors. Advanced Functional Materials, 2022, 32, 2107753.	7.8	25
3	30 Li⁺â€Accommodating Covalent Organic Frameworks as Ultralong Cyclable Highâ€Capacity Liâ€Ion Battery Electrodes. Advanced Functional Materials, 2022, 32, 2108798.	7.8	59
4	Guanineâ€Based Gâ€Quadruplexes Templated by Various Cations toward Potential Use as Singleâ€Ion Conductors. ChemSusChem, 2022, 15, .	3.6	1
5	Fibrous skeletonâ€framed, flexible highâ€energyâ€density quasiâ€solidâ€state lithium metal batteries. , 2022, 1, .		21
6	Battery technology and sustainable energy storage and conversion as a new energy resource replacing fossil fuels. , 2022, 1, .		10
7	On-demand solid-state artistic ultrahigh areal energy density microsupercapacitors. Energy Storage Materials, 2022, 47, 569-578.	9.5	3
8	Crystalline Porphyrazineâ€Linked Fused Aromatic Networks with High Proton Conductivity. Angewandte Chemie, 2022, 134, .	1.6	1
9	Crystalline Porphyrazineâ€Linked Fused Aromatic Networks with High Proton Conductivity. Angewandte Chemie - International Edition, 2022, 61, .	7.2	6
10	A microgrid-patterned silicon electrode as an electroactive lithium host. Energy and Environmental Science, 2022, 15, 2581-2590.	15.6	12
11	Light-triggered autonomous shape-reconfigurable and locomotive rechargeable power sources. Materials Today, 2022, 55, 56-65.	8.3	6
12	Redox-homogeneous, gel electrolyte-embedded high-mass-loading cathodes for high-energy lithium metal batteries. Nature Communications, 2022, 13, 2541.	5.8	22
13	Electrode-customized separator membranes based on self-assembled chiral nematic liquid crystalline cellulose nanocrystals as a natural material strategy for sustainable Li-metal batteries. Energy Storage Materials, 2022, 50, 783-791.	9.5	6
14	Why Celluloseâ€Based Electrochemical Energy Storage Devices?. Advanced Materials, 2021, 33, e2000892.	11.1	125
15	Aqueous eutectic lithium-ion electrolytes for wide-temperature operation. Energy Storage Materials, 2021, 36, 222-228.	9.5	19
16	Ultrahighâ€Energyâ€Density Flexible Lithiumâ€Metal Full Cells based on Conductive Fibrous Skeletons. Advanced Energy Materials, 2021, 11, 2100531.	10.2	20
17	A Chemically Selfâ€Charging Flexible Solidâ€State Zincâ€Ion Battery Based on VO₂ Cathode and Polyacrylamideâ€“Chitin Nanofiber Hydrogel Electrolyte. Advanced Energy Materials, 2021, 11, 2003902.	10.2	77
18	Conductive Fibrous Skeletons: Ultrahighâ€Energyâ€Density Flexible Lithiumâ€Metal Full Cells based on Conductive Fibrous Skeletons (Adv. Energy Mater. 24/2021). Advanced Energy Materials, 2021, 11, 2170092.	10.2	2

#	Article	IF	Citations
19	A new high-voltage calcium intercalation host for ultra-stable and high-power calcium rechargeable batteries. Nature Communications, 2021, 12, 3369.	5.8	59
20	Waterâ€Repellent Ionic Liquid Skinny Gels Customized for Aqueous Znâ€Ion Battery Anodes. Advanced Functional Materials, 2021, 31, 2103850.	7.8	63
21	Zincâ€Ion Batteries: A Chemically Selfâ€Charging Flexible Solidâ€State Zincâ€Ion Battery Based on VO₂ Cathode and Polyacrylamideâ€“Chitin Nanofiber Hydrogel Electrolyte (Adv. Energy) Tj ETQq1 1 0.784314 rgBT /Ove	10.2	4
22	Singleâ€Ion Conducting Soft Electrolytes for Semiâ€Solid Lithium Metal Batteries Enabling Cell Fabrication and Operation under Ambient Conditions. Advanced Energy Materials, 2021, 11, 2101813.	10.2	26
23	Liquidâ€Based Janus Electrolyte for Sustainable Redox Mediation in Lithiumâ€“Oxygen Batteries. Advanced Energy Materials, 2021, 11, 2102096.	10.2	9
24	Waterâ€Repellent Ionic Liquid Skinny Gels Customized for Aqueous Znâ€Ion Battery Anodes (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 1	7.8	7
25	Expanding cellulose. Nature Energy, 2021, 6, 949-950.	19.8	6
26	Singleâ€Ion Conducting Soft Electrolytes for Semiâ€Solid Lithium Metal Batteries Enabling Cell Fabrication and Operation under Ambient Conditions (Adv. Energy Mater. 38/2021). Advanced Energy Materials, 2021, 11, .	10.2	2
27	Printed solid-state electrolytes for form factor-free Li-metal batteries. Current Opinion in Electrochemistry, 2021, , 100889.	2.5	0
28	Flexible, Electrically Conductive, Nanostructured, Asymmetric Aerogel Films for Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2021, 13, 59174-59184.	4.0	5
29	Scalable and safer printed Zn//MnO2 planar micro-batteries for smart electronics. National Science Review, 2020, 7, 5-6.	4.6	10
30	Covalent organic framework-based ultrathin crystalline porous film: manipulating uniformity of fluoride distribution for stabilizing lithium metal anode. Journal of Materials Chemistry A, 2020, 8, 3459-3467.	5.2	75
31	Cellulose Nanofiber/Carbon Nanotubeâ€Based Bicontinuous Ion/Electron Conduction Networks for Highâ€Performance Aqueous Znâ€Ion Batteries. Small, 2020, 16, e2002837.	5.2	25
32	A single-ion conducting covalent organic framework for aqueous rechargeable Zn-ion batteries. Chemical Science, 2020, 11, 11692-11698.	3.7	51
33	A stretchable solid-state zinc ion battery based on a cellulose nanofiberâ€“polyacrylamide hydrogel electrolyte and a Mg_{0.23}V₂O₅Â·1.0H₂O cathode. Journal of Materials Chemistry A, 2020, 8, 18327-18337.	5.2	66
34	Voltage-tunable portable power supplies based on tailored integration of modularized silicon photovoltaics and printed bipolar lithium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 16291-16301.	5.2	2
35	Standâ€Alone Intrinsically Stretchable Electronic Device Platform Powered by Stretchable Rechargeable Battery. Advanced Functional Materials, 2020, 30, 2003608.	7.8	36
36	Nanofibrous Conductive Binders Based on DNA-Wrapped Carbon Nanotubes for Lithium Battery Electrodes. IScience, 2020, 23, 101739.	1.9	3

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37	Aqueous Znâ€Ion Batteries: Cellulose Nanofiber/Carbon Nanotubeâ€Based Bicontinuous Ion/Electron Conduction Networks for Highâ€Performance Aqueous Znâ€Ion Batteries (Small 44/2020). Small, 2020, 16, 2070239.	5.2	0
38	Integration of Transparent Supercapacitors and Electrodes Using Nanostructured Metallic Glass Films for Wirelessly Rechargeable, Skin Heat Patches. Nano Letters, 2020, 20, 4872-4881.	4.5	56
39	Transparent Supercapacitors: From Optical Theories to Optoelectronics Applications. Energy and Environmental Materials, 2020, 3, 265-285.	7.3	12
40	Ultrahigh areal number density solid-state on-chip microsupercapacitors via electrohydrodynamic jet printing. Science Advances, 2020, 6, eaaz1692.	4.7	72
41	Thin and Flexible Solid Electrolyte Membranes with Ultrahigh Thermal Stability Derived from Solution-Processable Li Argyrodites for All-Solid-State Li-Ion Batteries. ACS Energy Letters, 2020, 5, 718-727.	8.8	126
42	Galvanically Replaced, Singleâ€Bodied Lithiumâ€Ion Battery Fabric Electrodes. Advanced Functional Materials, 2020, 30, 1908633.	7.8	11
43	Ecofriendly Chemical Activation of Overlithiated Layered Oxides by DNAâ€Wrapped Carbon Nanotubes. Advanced Energy Materials, 2020, 10, 1903658.	10.2	5
44	Nonflammable Lithium Metal Full Cells with Ultra-high Energy Density Based on Coordinated Carbonate Electrolytes. IScience, 2020, 23, 100844.	1.9	58
45	Printable Solid Electrolyte Interphase Mimic for Antioxidative Lithium Metal Electrodes. Advanced Functional Materials, 2020, 30, 2000792.	7.8	16
46	Printed Built-In Power Sources. Matter, 2020, 2, 345-359.	5.0	16
47	Form factor-free, printed power sources. Energy Storage Materials, 2020, 29, 92-112.	9.5	19
48	Lignocellulosics as a Green Material Opportunity for Energy Storage Systems. , 2020, , 297-343.		0
49	Nanocarbons in Li-Ion Batteries. Nanostructure Science and Technology, 2019, , 419-453.	0.1	0
50	Nanomat Liâ€“S batteries based on all-fibrous cathode/separator assemblies and reinforced Li metal anodes: towards ultrahigh energy density and flexibility. Energy and Environmental Science, 2019, 12, 177-186.	15.6	138
51	Recent advances on separator membranes for lithium-ion battery applications: From porous membranes to solid electrolytes. Energy Storage Materials, 2019, 22, 346-375.	9.5	225
52	Biomimetic Superoxide Disproportionation Catalyst for Anti-Aging Lithiumâ€“Oxygen Batteries. ACS Nano, 2019, 13, 9190-9197.	7.3	29
53	Woodâ€Derived Nanofibrillated Cellulose Hydrogel Filters for Fast and Efficient Separation of Nanoparticles. Advanced Sustainable Systems, 2019, 3, 1900063.	2.7	10
54	Allâ€Solidâ€State Printed Bipolar Liâ€“S Batteries. Advanced Energy Materials, 2019, 9, 1901841.	10.2	45

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55	Monolithic heteronanomat paper air cathodes toward origami-foldable/rechargeable Znâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 24231-24238.	5.2	27
56	DNA-directed amphiphilic self-assembly as a chemifunctional/multiscale-structuring strategy for high-performance Liâ€“S batteries. Journal of Materials Chemistry A, 2019, 7, 4084-4092.	5.2	3
57	Revisiting polymeric single lithium-ion conductors as an organic route for all-solid-state lithium ion and metal batteries. Journal of Materials Chemistry A, 2019, 7, 1917-1935.	5.2	103
58	Antioxidative Lithium Reservoir Based on Interstitial Channels of Carbon Nanotube Bundles. Nano Letters, 2019, 19, 5879-5884.	4.5	8
59	Platform for wireless pressure sensing with built-in battery and instant visualization. Nano Energy, 2019, 62, 230-238.	8.2	43
60	Solvent-Free, Single Lithium-Ion Conducting Covalent Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 5880-5885.	6.6	284
61	Carbonâ€Nanotubeâ€Cored Cobalt Porphyrin as a 1D Nanohybrid Strategy for Highâ€Performance Lithiumâ€Ion Battery Anodes. Advanced Functional Materials, 2019, 29, 1806937.	7.8	35
62	Heteromat-framed metal-organic coordination polymer anodes for high-performance lithium-ion batteries. Energy Storage Materials, 2019, 19, 130-136.	9.5	21
63	Printing of wirelessly rechargeable solid-state supercapacitors for soft, smart contact lenses with continuous operations. Science Advances, 2019, 5, eaay0764.	4.7	117
64	Monolithic heterojunction quasi-solid-state battery electrolytes based on thermodynamically immiscible dual phases. Energy and Environmental Science, 2019, 12, 559-565.	15.6	27
65	Nanocellulose for Energy Storage Systems: Beyond the Limits of Synthetic Materials. Advanced Materials, 2019, 31, e1804826.	11.1	181
66	Allâ€Handâ€Drawn Znâ€“Air Batteries: Toward Userâ€Customized Onâ€theâ€Fly Power Sources. Advanced Sustainable Systems, 2018, 2, 1700132.	2.7	9
67	Wearable Supercapacitors Printed on Garments. Advanced Functional Materials, 2018, 28, 1705571.	7.8	62
68	Nanocellulose: a promising nanomaterial for advanced electrochemical energy storage. Chemical Society Reviews, 2018, 47, 2837-2872.	18.7	586
69	Wearable Electronics: Wearable Supercapacitors Printed on Garments (Adv. Funct. Mater. 11/2018). Advanced Functional Materials, 2018, 28, 1870074.	7.8	13
70	Flexible/shape-versatile, bipolar all-solid-state lithium-ion batteries prepared by multistage printing. Energy and Environmental Science, 2018, 11, 321-330.	15.6	141
71	Current Status and Challenges in Printed Batteries: Toward Form Factor-Free, Monolithic Integrated Power Sources. ACS Energy Letters, 2018, 3, 220-236.	8.8	139
72	Reversible thixotropic gel electrolytes for safer and shape-versatile lithium-ion batteries. Journal of Power Sources, 2018, 401, 126-134.	4.0	15

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73	Spiderwebâ€Mimicking Anionâ€Exchanging Separators for Liâ€“S Batteries. Advanced Functional Materials, 2018, 28, 1801422.	7.8	26
74	Flexible/Rechargeable Znâ€“Air Batteries Based on Multifunctional Heteronanomat Architecture. ACS Applied Materials & Interfaces, 2018, 10, 22210-22217.	4.0	51
75	Monolithically integrated, photo-rechargeable portable power sources based on miniaturized Si solar cells and printed solid-state lithium-ion batteries. Energy and Environmental Science, 2017, 10, 931-940.	15.6	111
76	Beyond Slurry-Cast Supercapacitor Electrodes: PAN/MWNT Heteromat-Mediated Ultrahigh Capacitance Electrode Sheets. Scientific Reports, 2017, 7, 41708.	1.6	5
77	Beyond flexible batteries: aesthetically versatile, printed rechargeable power sources for smart electronics. , 2017, , .		0
78	Coffee-Driven Green Activation of Cellulose and Its Use for All-Paper Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 22568-22577.	4.0	38
79	Polysulfide-Breathing/Dual-Conductive, Heterolayered Battery Separator Membranes Based on 0D/1D Mingled Nanomaterial Composite Mats. Nano Letters, 2017, 17, 2220-2228.	4.5	36
80	One-pot surface engineering of battery electrode materials with metallic SWCNT-enriched, ivy-like conductive nanonets. Journal of Materials Chemistry A, 2017, 5, 12103-12112.	5.2	7
81	Allâ€Nanomat Lithiumâ€Ion Batteries: A New Cell Architecture Platform for Ultrahigh Energy Density and Mechanical Flexibility. Advanced Energy Materials, 2017, 7, 1701099.	10.2	34
82	Revisiting Surface Modification of Graphite: Dualâ€Layer Coating for Highâ€Performance Lithium Battery Anode Materials. Chemistry - an Asian Journal, 2016, 11, 1711-1717.	1.7	20
83	1D Building Blocksâ€Intermingled Heteronanomats as a Platform Architecture For Highâ€Performance Ultrahighâ€Capacity Lithiumâ€Ion Battery Cathodes. Advanced Energy Materials, 2016, 6, 1501594.	10.2	35
84	Functionalized Nanocellulose-Integrated Heterolayered Nanomats toward Smart Battery Separators. Nano Letters, 2016, 16, 5533-5541.	4.5	96
85	Toward Ultrahighâ€Capacity V₂O₅ Lithiumâ€Ion Battery Cathodes via Oneâ€Pot Synthetic Route from Precursors to Electrode Sheets. Advanced Materials Interfaces, 2016, 3, 1600173.	1.9	16
86	COF-Net on CNT-Net as a Molecularly Designed, Hierarchical Porous Chemical Trap for Polysulfides in Lithiumâ€“Sulfur Batteries. Nano Letters, 2016, 16, 3292-3300.	4.5	216
87	Molecularly designed, dual-doped mesoporous carbon/SWCNT nanoshields for lithium battery electrode materials. Journal of Materials Chemistry A, 2016, 4, 14996-15005.	5.2	1
88	Janusâ€Faced, Dualâ€Conductive/Chemically Active Battery Separator Membranes. Advanced Functional Materials, 2016, 26, 7074-7083.	7.8	67
89	Separator Membranes: Janusâ€Faced, Dualâ€Conductive/Chemically Active Battery Separator Membranes (Adv. Funct. Mater. 39/2016). Advanced Functional Materials, 2016, 26, 7195-7195.	7.8	0
90	All-inkjet-printed, solid-state flexible supercapacitors on paper. Energy and Environmental Science, 2016, 9, 2812-2821.	15.6	377

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91	An effective coupling of nanostructured Si and gel polymer electrolytes for high-performance lithium-ion battery anodes. RSC Advances, 2016, 6, 6960-6966.	1.7	23
92	Artificially engineered, bicontinuous anion-conducting/-repelling polymeric phases as a selective ion transport channel for rechargeable zincâ€“air battery separator membranes. Journal of Materials Chemistry A, 2016, 4, 3711-3720.	5.2	80
93	Electrospun polyetherimide nanofiber mat-reinforced, permselective polyvinyl alcohol composite separator membranes: A membrane-driven step closer toward rechargeable zincâ€“air batteries. Journal of Membrane Science, 2016, 499, 526-537.	4.1	65
94	Multifunctional natural agarose as an alternative material for high-performance rechargeable lithium-ion batteries. Green Chemistry, 2016, 18, 2710-2716.	4.6	39
95	Heteroâ€Nanonet Rechargeable Paper Batteries: Toward Ultrahigh Energy Density and Origami Foldability. Advanced Functional Materials, 2015, 25, 6029-6040.	7.8	111
96	Excellent Compatibility of Solvate Ionic Liquids with Sulfide Solid Electrolytes: Toward Favorable Ionic Contacts in Bulkâ€Type Allâ€Solidâ€State Lithiumâ€Ion Batteries. Advanced Energy Materials, 2015, 5, 1500865.	10.2	134
97	Superlattice Crystalsâ€“Mimic, Flexible/Functional Ceramic Membranes: Beyond Polymeric Battery Separators. Advanced Energy Materials, 2015, 5, 1500954.	10.2	45
98	A facile route for growth of CNTs on Si@hard carbon for conductive agent incorporating anodes for lithium-ion batteries. Nanoscale, 2015, 7, 11286-11290.	2.8	19
99	Lithium-Ion Batteries: Excellent Compatibility of Solvate Ionic Liquids with Sulfide Solid Electrolytes: Toward Favorable Ionic Contacts in Bulk-Type All-Solid-State Lithium-Ion Batteries (Adv. Energy Mater.) Tj ETQq1 1 0.784314 rgBT /Over	10.2	2
100	Hierarchical multiscale hyperporous block copolymer membranes via tunable dual-phase separation. Science Advances, 2015, 1, e1500101.	4.7	57
101	Dual electrospray-assisted forced blending of thermodynamically immiscible polyelectrolyte mixtures. Journal of Membrane Science, 2015, 481, 28-35.	4.1	12
102	Agarose-biofunctionalized, dual-electrospun heteronanofiber mats: toward metal-ion chelating battery separator membranes. Journal of Materials Chemistry A, 2015, 3, 10687-10692.	5.2	43
103	Printable Solid-State Lithium-Ion Batteries: A New Route toward Shape-Conformable Power Sources with Aesthetic Versatility for Flexible Electronics. Nano Letters, 2015, 15, 5168-5177.	4.5	182
104	Bendable and Thin Sulfide Solid Electrolyte Film: A New Electrolyte Opportunity for Free-Standing and Stackable High-Energy All-Solid-State Lithium-Ion Batteries. Nano Letters, 2015, 15, 3317-3323.	4.5	233
105	Cyclic ultracapacitor for fast-charging and scalable energy storage system. Energy, 2015, 93, 210-219.	4.5	5
106	Enhancing the elevated temperature performance of high voltage LiNi0.5Mn1.5O4 by V doping with in-situ carbon and polyimide encapsulation. Journal of Power Sources, 2015, 298, 379-384.	4.0	9
107	Thin, Deformable, and Safetyâ€Reinforced Plastic Crystal Polymer Electrolytes for Highâ€Performance Flexible Lithiumâ€Ion Batteries. Advanced Functional Materials, 2014, 24, 44-52.	7.8	195
108	Anomalous behavior of proton transport and dimensional stability of sulfonated poly(arylene ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 morphology. Journal of Membrane Science, 2014, 450, 235-241.	4.1	29

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109	Ultrahighâ€Energyâ€Density Lithiumâ€Ion Batteries Based on a Highâ€Capacity Anode and a Highâ€Voltage Cathode with an Electroconductive Nanoparticle Shell. Advanced Energy Materials, 2014, 4, 1301542.	10.2	46
110	Solar Cells: Triple-Layer Structured Composite Separator Membranes with Dual Pore Structures and Improved Interfacial Contact for Sustainable Dye-Sensitized Solar Cells (Adv. Energy Mater. 13/2014). Advanced Energy Materials, 2014, 4, n/a-n/a.	10.2	1
111	A shape-deformable and thermally stable solid-state electrolyte based on a plastic crystal composite polymer electrolyte for flexible/safer lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 10854-10861.	5.2	68
112	Tripleâ€Layer Structured Composite Separator Membranes with Dual Pore Structures and Improved Interfacial Contact for Sustainable Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1400477.	10.2	12
113	Novel design of ultra-fast Si anodes for Li-ion batteries: crystalline Si@amorphous Si encapsulating hard carbon. Nanoscale, 2014, 6, 10604-10610.	2.8	40
114	Facile surface modification of high-voltage lithium-ion battery cathode materials with electroconductive zinc antimonate colloidal nanoparticles. RSC Advances, 2014, 4, 15630.	1.7	3
115	Heterolayered, One-Dimensional Nanobuilding Block Mat Batteries. Nano Letters, 2014, 14, 5677-5686.	4.5	111
116	Conducting Polymer-Skinned Electroactive Materials of Lithium-Ion Batteries: Ready for Monocomponent Electrodes without Additional Binders and Conductive Agents. ACS Applied Materials & Interfaces, 2014, 6, 12789-12797.	4.0	74
117	Nanoporous polymer scaffold-embedded nonwoven composite separator membranes for high-rate lithium-ion batteries. RSC Advances, 2014, 4, 54312-54321.	1.7	15
118	Inverse Opal-Inspired, Nanoscaffold Battery Separators: A New Membrane Opportunity for High-Performance Energy Storage Systems. Nano Letters, 2014, 14, 4438-4448.	4.5	77
119	Mixed ion/electron-conductive protective soft nanomatter-based conformal surface modification of lithium-ion battery cathode materials. Journal of Power Sources, 2014, 263, 209-216.	4.0	9
120	Flexible Batteries: Thin, Deformable, and Safety-Reinforced Plastic Crystal Polymer Electrolytes for High-Performance Flexible Lithium-Ion Batteries (Adv. Funct. Mater. 1/2014). Advanced Functional Materials, 2014, 24, 172-172.	7.8	5
121	Multifunctional semi-interpenetrating polymer network-nanoencapsulated cathode materials for high-performance lithium-ion batteries. Scientific Reports, 2014, 4, 4602.	1.6	21
122	Surface engineering of sponge-like silicon particles for high-performance lithium-ion battery anodes. Physical Chemistry Chemical Physics, 2013, 15, 7045.	1.3	23
123	Thickness-tunable polyimide nanoencapsulating layers and their influence on cell performance/thermal stability of high-voltage LiCoO2 cathode materials for lithium-ion batteries. Journal of Power Sources, 2013, 244, 442-449.	4.0	20
124	Polyimide/carbon black composite nanocoating layers as a facile surface modification strategy for high-voltage lithium ion cathode materials. Journal of Materials Chemistry A, 2013, 1, 12441.	5.2	20
125	Imprintable, Bendable, and Shapeâ€Conformable Polymer Electrolytes for Versatileâ€Shaped Lithiumâ€Ion Batteries. Advanced Materials, 2013, 25, 1395-1400.	11.1	183
126	Reduction of heat generation for lithiated graphite by forming a local galvanic cell with Cu3Sn at elevated temperature. Electrochemistry Communications, 2013, 37, 88-90.	2.3	4

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127	Direct ultraviolet-assisted conformal coating of nanometer-thick poly(tris(2-(acryloyloxy)ethyl)) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Sources, 2013, 244, 389-394.	4.0	22
128	Direct surface modification of high-voltage LiCoO2 cathodes by UV-cured nanothickness poly(ethylene glycol diacrylate) gel polymer electrolytes. Electrochimica Acta, 2013, 104, 249-254.	2.6	17
129	Progress in flexible energy storage and conversion systems, with a focus on cable-type lithium-ion batteries. Energy and Environmental Science, 2013, 6, 2414.	15.6	235
130	Mechanically compliant and lithium dendrite growth-suppressing composite polymer electrolytes for flexible lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 4949.	5.2	110
131	Highly Flexible, Proton-Conductive Silicate Glass Electrolytes for Medium-Temperature/Low-Humidity Proton Exchange Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2013, 5, 5034-5043.	4.0	38
132	Colloidal silica nanoparticle-assisted structural control of cellulose nanofiber paper separators for lithium-ion batteries. Journal of Power Sources, 2013, 242, 533-540.	4.0	123
133	Compliant polymer network-mediated fabrication of a bendable plastic crystal polymer electrolyte for flexible lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 5224.	5.2	60
134	Ultrathin Polyimide Coating for a Spinel LiNi0.5Mn1.5O4Cathode and Its Superior Lithium Storage Properties under Elevated Temperature Conditions. Journal of the Electrochemical Society, 2013, 160, A1003-A1008.	1.3	42
135	Polymer Electrolytes: Imprintable, Bendable, and Shapeâ€Conformable Polymer Electrolytes for Versatileâ€Shaped Lithiumâ€Ion Batteries (Adv. Mater. 10/2013). Advanced Materials, 2013, 25, 1512-1512.	11.1	1
136	Eco-friendly cellulose nanofiber paper-derived separator membranes featuring tunable nanoporous network channels for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 16618.	6.7	266
137	UV-curable semi-interpenetrating polymer network-integrated, highly bendable plastic crystal composite electrolytes for shape-conformable all-solid-state lithium ion batteries. Energy and Environmental Science, 2012, 5, 6491.	15.6	210
138	Polyimide nonwoven fabric-reinforced, flexible phosphosilicate glass composite membranes for high-temperature/low-humidity proton exchange membrane fuel cells. Journal of Materials Chemistry, 2012, 22, 18550.	6.7	27
139	A proton conductive silicate-nanoencapsulated polyimide nonwoven as a novel porous substrate for a reinforced sulfonated poly(arylene ether sulfone) composite membrane. Journal of Materials Chemistry, 2012, 22, 1634-1642.	6.7	28
140	A polymer electrolyte-skinned active material strategy toward high-voltage lithium ion batteries: a polyimide-coated LiNi0.5Mn1.5O4 spinel cathode material case. Energy and Environmental Science, 2012, 5, 7124.	15.6	175
141	Evaporation-induced, close-packed silica nanoparticle-embedded nonwoven composite separator membranes for high-voltage/high-rate lithium-ion batteries: Advantageous effect of highly percolated, electrolyte-philic microporous architecture. Journal of Membrane Science, 2012, 415-416, 513-519.	4.1	82
142	Evaporation-induced self-assembled silica colloidal particle-assisted nanoporous structural evolution of poly(ethylene terephthalate) nonwoven composite separators for high-safety/high-rate lithium-ion batteries. Journal of Power Sources, 2012, 216, 42-47.	4.0	58
143	Cableâ€Type Flexible Lithium Ion Battery Based on Hollow Multiâ€Helix Electrodes. Advanced Materials, 2012, 24, 5192-5197.	11.1	331
144	Composition ratio-dependent structural evolution of SiO2/poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (fluoride-hexaflu for lithium-ion batteries. Electrochimica Acta, 2012, 86, 317-322.	2.6	60

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145	High-voltage cell performance and thermal stability of nanoarchitectured polyimide gel polymer electrolyte-coated LiCoO2 cathode materials. Electrochimica Acta, 2012, 86, 346-351.	2.6	37
146	A novel ion-conductive protection skin based on polyimide gel polymer electrolyte: application to nanoscale coating layer of high voltage LiNi1/3Co1/3Mn1/3O2 cathode materials for lithium-ion batteries. Journal of Materials Chemistry, 2012, 22, 12574.	6.7	76
147	SiO2 ceramic nanoporous substrate-reinforced sulfonated poly(arylene ether sulfone) composite membranes for proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2012, 37, 6189-6198.	3.8	32
148	Multilayer-structured, SiO2/sulfonated poly(phenylsulfone) composite membranes for proton exchange membrane fuel cells. International Journal of Hydrogen Energy, 2012, 37, 6182-6188.	3.8	21
149	Sulfonated SBA-15 mesoporous silica-incorporated sulfonated poly(phenylsulfone) composite membranes for low-humidity proton exchange membrane fuel cells: Anomalous behavior of humidity-dependent proton conductivity. International Journal of Hydrogen Energy, 2012, 37, 9202-9211.	3.8	39
150	Restricted growth of LiMnPO4 nanoparticles evolved from a precursor seed. Journal of Power Sources, 2012, 210, 1-6.	4.0	52
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