

# Jang Wook Choi

## List of Publications by Citations

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239  
papers

30,970  
citations

83  
h-index

174  
g-index

257  
ext. papers

34,842  
ext. citations

13.7  
avg, IF

7.74  
L-index

#	Paper	IF	Citations
239	Promise and reality of post-lithium-ion batteries with high energy densities. <i>Nature Reviews Materials</i> , <b>2016</b> , 1,	73.3	2575
238	Stable cycling of double-walled silicon nanotube battery anodes through solid-electrolyte interphase control. <i>Nature Nanotechnology</i> , <b>2012</b> , 7, 310-5	28.7	1831
237	Nitrogen-doped graphene for high-performance ultracapacitors and the importance of nitrogen-doped sites at basal planes. <i>Nano Letters</i> , <b>2011</b> , 11, 2472-7	11.5	1373
236	Stretchable, porous, and conductive energy textiles. <i>Nano Letters</i> , <b>2010</b> , 10, 708-14	11.5	1280
235	3D macroporous graphene frameworks for supercapacitors with high energy and power densities. <i>ACS Nano</i> , <b>2012</b> , 6, 4020-8	16.7	1082
234	A 160-kilobit molecular electronic memory patterned at 10(11) bits per square centimetre. <i>Nature</i> , <b>2007</b> , 445, 414-7	50.4	1078
233	Highly conductive paper for energy-storage devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 21490-4	11.5	1048
232	Highly elastic binders integrating polyrotaxanes for silicon microparticle anodes in lithium ion batteries. <i>Science</i> , <b>2017</b> , 357, 279-283	33.3	670
231	Mussel-inspired polydopamine-treated polyethylene separators for high-power li-ion batteries. <i>Advanced Materials</i> , <b>2011</b> , 23, 3066-70	24	560
230	Electrospun core-shell fibers for robust silicon nanoparticle-based lithium ion battery anodes. <i>Nano Letters</i> , <b>2012</b> , 12, 802-7	11.5	526
229	Mussel-inspired adhesive binders for high-performance silicon nanoparticle anodes in lithium-ion batteries. <i>Advanced Materials</i> , <b>2013</b> , 25, 1571-6	24	463
228	Light-weight free-standing carbon nanotube-silicon films for anodes of lithium ion batteries. <i>ACS Nano</i> , <b>2010</b> , 4, 3671-8	16.7	460
227	Nitrogen-doped multiwall carbon nanotubes for lithium storage with extremely high capacity. <i>Nano Letters</i> , <b>2012</b> , 12, 2283-8	11.5	433
226	Bendable inorganic thin-film battery for fully flexible electronic systems. <i>Nano Letters</i> , <b>2012</b> , 12, 4810-6	11.5	431
225	Effective liquid-phase exfoliation and sodium ion battery application of MoS <sub>2</sub> nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 7084-9	9.5	379
224	Silicon carbide-free graphene growth on silicon for lithium-ion battery with high volumetric energy density. <i>Nature Communications</i> , <b>2015</b> , 6, 7393	17.4	376
223	Excellent Cycle Life of Lithium-Metal Anodes in Lithium-Ion Batteries with Mussel-Inspired Polydopamine-Coated Separators. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 645-650	21.8	359

222	Wearable textile battery rechargeable by solar energy. <i>Nano Letters</i> , <b>2013</b> , 13, 5753-61	11.5	349
221	Restacking-inhibited 3D reduced graphene oxide for high performance supercapacitor electrodes. <i>ACS Nano</i> , <b>2013</b> , 7, 9366-74	16.7	343
220	The High Performance of Crystal Water Containing Manganese Birnessite Cathodes for Magnesium Batteries. <i>Nano Letters</i> , <b>2015</b> , 15, 4071-9	11.5	339
219	Defined spatial structure stabilizes a synthetic multispecies bacterial community. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 18188-93	11.5	338
218	One-dimensional carbon-sulfur composite fibers for Na-S rechargeable batteries operating at room temperature. <i>Nano Letters</i> , <b>2013</b> , 13, 4532-8	11.5	334
217	Anomalous shape changes of silicon nanopillars by electrochemical lithiation. <i>Nano Letters</i> , <b>2011</b> , 11, 3034-9	11.5	316
216	Size-dependent fracture of Si nanowire battery anodes. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2011</b> , 59, 1717-1730	5	303
215	Encapsulated monoclinic sulfur for stable cycling of li-s rechargeable batteries. <i>Advanced Materials</i> , <b>2013</b> , 25, 6547-53	24	295
214	Controlled Prelithiation of Silicon Monoxide for High Performance Lithium-Ion Rechargeable Full Cells. <i>Nano Letters</i> , <b>2016</b> , 16, 282-8	11.5	283
213	Electrochemical and Thermal Properties of NASICON Structured Na <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> as a Sodium Rechargeable Battery Cathode: A Combined Experimental and Theoretical Study. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, A1393-A1397	3.9	275
212	Al Doping for Mitigating the Capacity Fading and Voltage Decay of Layered Li and Mn-Rich Cathodes for Li-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1502398	21.8	271
211	Novel size and surface oxide effects in silicon nanowires as lithium battery anodes. <i>Nano Letters</i> , <b>2011</b> , 11, 4018-25	11.5	251
210	Na <sub>2</sub> FeP <sub>2</sub> O <sub>7</sub> as a Promising Iron-Based Pyrophosphate Cathode for Sodium Rechargeable Batteries: A Combined Experimental and Theoretical Study. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 1147-1155	15.6	250
209	Elemental-Sulfur-Mediated Facile Synthesis of a Covalent Triazine Framework for High-Performance Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3106-11	16.4	249
208	Tungsten Disulfide Catalysts Supported on a Carbon Cloth Interlayer for High Performance LiS Battery. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602567	21.8	233
207	Recycling rice husks for high-capacity lithium battery anodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 12229-34	11.5	233
206	Hyperbranched Cyclodextrin polymer as an effective multidimensional binder for silicon anodes in lithium rechargeable batteries. <i>Nano Letters</i> , <b>2014</b> , 14, 864-70	11.5	230
205	Spray drying method for large-scale and high-performance silicon negative electrodes in Li-ion batteries. <i>Nano Letters</i> , <b>2013</b> , 13, 2092-7	11.5	219

204	Aqueous zinc ion batteries: focus on zinc metal anodes. <i>Chemical Science</i> , <b>2020</b> , 11, 2028-2044	9.4	218
203	Stepwise nanopore evolution in one-dimensional nanostructures. <i>Nano Letters</i> , <b>2010</b> , 10, 1409-13	11.5	218
202	The emerging era of supramolecular polymeric binders in silicon anodes. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 2145-2164	58.5	217
201	Hierarchical porous carbon by ultrasonic spray pyrolysis yields stable cycling in lithium-sulfur battery. <i>Nano Letters</i> , <b>2014</b> , 14, 4418-25	11.5	214
200	A truncated manganese spinel cathode for excellent power and lifetime in lithium-ion batteries. <i>Nano Letters</i> , <b>2012</b> , 12, 6358-65	11.5	214
199	Ground-state equilibrium thermodynamics and switching kinetics of bistable [2]rotaxanes switched in solution, polymer gels, and molecular electronic devices. <i>Chemistry - A European Journal</i> , <b>2005</b> , 12, 261-79	4.8	203
198	Structures and properties of self-assembled monolayers of bistable [2]rotaxanes on Au (111) surfaces from molecular dynamics simulations validated with experiment. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 1563-75	16.4	185
197	A Lithium-Sulfur Battery with a High Areal Energy Density. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 5359-5367	15.6	180
196	Millipede-inspired structural design principle for high performance polysaccharide binders in silicon anodes. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1224-1230	35.4	179
195	Mussel- and Diatom-Inspired Silica Coating on Separators Yields Improved Power and Safety in Li-Ion Batteries. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 3481-3485	9.6	167
194	Crystal water for high performance layered manganese oxide cathodes in aqueous rechargeable zinc batteries. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1999-2009	35.4	162
193	Rechargeable aluminium organic batteries. <i>Nature Energy</i> , <b>2019</b> , 4, 51-59	62.3	159
192	Controlled Lithium Dendrite Growth by a Synergistic Effect of Multilayered Graphene Coating and an Electrolyte Additive. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 2780-2787	9.6	158
191	Hydrated Intercalation for High-Performance Aqueous Zinc Ion Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900083	21.8	158
190	Deep eutectic solvents as attractive media for CO <sub>2</sub> capture. <i>Green Chemistry</i> , <b>2016</b> , 18, 2834-2842	10	150
189	Sodium zinc hexacyanoferrate with a well-defined open framework as a positive electrode for sodium ion batteries. <i>Chemical Communications</i> , <b>2012</b> , 48, 8416-8	5.8	146
188	Critical Role of Crystal Water for a Layered Cathode Material in Sodium Ion Batteries. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 3721-3725	9.6	142
187	A radically configurable six-state compound. <i>Science</i> , <b>2013</b> , 339, 429-33	33.3	140

186	Extremely stable cycling of ultra-thin V <sub>2</sub> O <sub>5</sub> nanowire/graphene electrodes for lithium rechargeable battery cathodes. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9889	35.4	140
185	Flexible Few-Layered Graphene for the Ultrafast Rechargeable Aluminum-Ion Battery. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 13384-13389	3.8	134
184	Anomalous manganese activation of a pyrophosphate cathode in sodium ion batteries: a combined experimental and theoretical study. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 2787-92	16.4	131
183	Delicate Structural Control of Si-SiO-C Composite via High-Speed Spray Pyrolysis for Li-Ion Battery Anodes. <i>Nano Letters</i> , <b>2017</b> , 17, 1870-1876	11.5	129
182	Effective Polysulfide Rejection by Dipole-Aligned BaTiO <sub>3</sub> Coated Separator in Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7817-7823	15.6	129
181	N-doped graphitic self-encapsulation for high performance silicon anodes in lithium-ion batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 621-626	35.4	127
180	Improved reversibility in lithium-oxygen battery: understanding elementary reactions and surface charge engineering of metal alloy catalyst. <i>Scientific Reports</i> , <b>2014</b> , 4, 4225	4.9	126
179	Co-polyimide-coated polyethylene separators for enhanced thermal stability of lithium ion batteries. <i>Electrochimica Acta</i> , <b>2012</b> , 85, 524-530	6.7	126
178	Systematic molecular-level design of binders incorporating Meldrum's acid for silicon anodes in lithium rechargeable batteries. <i>Advanced Materials</i> , <b>2014</b> , 26, 7979-85	24	124
177	Dynamic Cross-Linking of Polymeric Binders Based on Host-Guest Interactions for Silicon Anodes in Lithium Ion Batteries. <i>ACS Nano</i> , <b>2015</b> , 9, 11317-24	16.7	123
176	A stable lithium-rich surface structure for lithium-rich layered cathode materials. <i>Nature Communications</i> , <b>2016</b> , 7, 13598	17.4	121
175	Role of intermediate phase for stable cycling of Na <sub>7</sub> V <sub>4</sub> (P <sub>2</sub> O <sub>7</sub> ) <sub>4</sub> PO <sub>4</sub> in sodium ion battery. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 599-604	11.5	120
174	Perfluoroaryl-Elemental Sulfur SNAr Chemistry in Covalent Triazine Frameworks with High Sulfur Contents for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1703947	15.6	118
173	Carbon nanofiber supercapacitors with large areal capacitances. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 243109	3.4	114
172	Graphene balls for lithium rechargeable batteries with fast charging and high volumetric energy densities. <i>Nature Communications</i> , <b>2017</b> , 8, 1561	17.4	112
171	Functionalized graphene for high performance lithium ion capacitors. <i>ChemSusChem</i> , <b>2012</b> , 5, 2328-33	8.3	107
170	A new strategy for integrating abundant oxygen functional groups into carbon felt electrode for vanadium redox flow batteries. <i>Scientific Reports</i> , <b>2014</b> , 4, 6906	4.9	106
169	Ordered Mesoporous Titanium Nitride as a Promising Carbon-Free Cathode for Aprotic Lithium-Oxygen Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 1736-1746	16.7	104

168	Atom-Level Understanding of the Sodiation Process in Silicon Anode Material. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 1283-8	6.4	102
167	Combined CO <sub>2</sub> -philicity and Ordered Mesoporosity for Highly Selective CO <sub>2</sub> Capture at High Temperatures. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7210-6	16.4	102
166	A Moisture- and Oxygen-Impermeable Separator for Aprotic Li-O <sub>2</sub> Batteries. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 1747-1756	15.6	101
165	Anisotropic volume expansion of crystalline silicon during electrochemical lithium insertion: an atomic level rationale. <i>Nano Letters</i> , <b>2012</b> , 12, 5342-7	11.5	99
164	The Synergistic Effect of Cation and Anion of an Ionic Liquid Additive for Lithium Metal Anodes. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702744	21.8	94
163	An Aqueous Sodium Ion Hybrid Battery Incorporating an Organic Compound and a Prussian Blue Derivative. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1400133	21.8	93
162	Recent Progress on Spray Pyrolysis for High Performance Electrode Materials in Lithium and Sodium Rechargeable Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1601578	21.8	92
161	Molecular dynamics simulation of amphiphilic bistable [2]rotaxane langmuir monolayers at the air/water interface. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14804-16	16.4	90
160	Elemental-Sulfur-Mediated Facile Synthesis of a Covalent Triazine Framework for High-Performance Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 3158-3163	3.6	89
159	Rational Sulfur Cathode Design for Lithium-Sulfur Batteries: Sulfur-Embedded Benzoxazine Polymers. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 566-572	20.1	88
158	Anisotropic lithiation onset in silicon nanoparticle anode revealed by in situ graphene liquid cell electron microscopy. <i>ACS Nano</i> , <b>2014</b> , 8, 7478-85	16.7	88
157	Enhanced durability of polymer electrolyte membrane fuel cells by functionalized 2D boron nitride nanoflakes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 7751-8	9.5	87
156	Scalable fracture-free SiOC glass coating for robust silicon nanoparticle anodes in lithium secondary batteries. <i>Nano Letters</i> , <b>2014</b> , 14, 7120-5	11.5	82
155	Exfoliated 2D Lepidocrocite Titanium Oxide Nanosheets for High Sulfur Content Cathodes with Highly Stable Li-S Battery Performance. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 412-419	20.1	78
154	Sodium ion diffusion in Al <sub>2</sub> O <sub>3</sub> : a distinct perspective compared with lithium ion diffusion. <i>Nano Letters</i> , <b>2014</b> , 14, 6559-63	11.5	77
153	Chemical Blowing Approach for Ultramicroporous Carbon Nitride Frameworks and Their Applications in Gas and Energy Storage. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1604658	15.6	77
152	Fast and scalable printing of large area monolayer nanoparticles for nanotexturing applications. <i>Nano Letters</i> , <b>2010</b> , 10, 2989-94	11.5	76
151	The Importance of Confined Sulfur Nanodomains and Adjoining Electron Conductive Pathways in Subreaction Regimes of Li-S Batteries. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700074	21.8	75

150	Battery Electrode Materials with Omnivalent Cation Storage for Fast and Charge-Efficient Ion Removal of Asymmetric Capacitive Deionization. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802665	15.6	75
149	Selection of Binder and Solvent for Solution-Processed All-Solid-State Battery. <i>Journal of the Electrochemical Society</i> , <b>2017</b> , 164, A2075-A2081	3.9	71
148	A half millimeter thick coplanar flexible battery with wireless recharging capability. <i>Nano Letters</i> , <b>2015</b> , 15, 2350-7	11.5	70
147	Sprayable Ultrafast Polydopamine Surface Modifications. <i>Advanced Materials Interfaces</i> , <b>2016</b> , 3, 1500857	7.6	70
146	Effect of N-substitution in naphthalenediimides on the electrochemical performance of organic rechargeable batteries. <i>RSC Advances</i> , <b>2012</b> , 2, 7968	3.7	69
145	A "Sticky" Mucin-Inspired DNA-Polysaccharide Binder for Silicon and Silicon-Graphite Blended Anodes in Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707594	24	68
144	Nitrogen-doped carbon coating for a high-performance SiO anode in lithium-ion batteries. <i>Electrochemistry Communications</i> , <b>2013</b> , 34, 98-101	5.1	67
143	Direct Observation of an Anomalous Spinel-to-Layered Phase Transition Mediated by Crystal Water Intercalation. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 15094-9	16.4	67
142	Silicon@porous nitrogen-doped carbon spheres through a bottom-up approach are highly robust lithium-ion battery anodes. <i>RSC Advances</i> , <b>2012</b> , 2, 4311	3.7	67
141	Mussel-Inspired Self-Healing Metallopolymers for Silicon Nanoparticle Anodes. <i>ACS Nano</i> , <b>2019</b> , 13, 8364-8373	16.7	65
140	A gel polymer electrolyte based on initiator-free photopolymerization for lithium secondary batteries. <i>Electrochimica Acta</i> , <b>2012</b> , 60, 23-30	6.7	63
139	Important Role of Functional Groups for Sodium Ion Intercalation in Expanded Graphite. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5402-5406	9.6	62
138	Effect of polydopamine surface coating on polyethylene separators as a function of their porosity for high-power Li-ion batteries. <i>Electrochimica Acta</i> , <b>2013</b> , 113, 433-438	6.7	62
137	Inorganic Glue Enabling High Performance of Silicon Particles as Lithium Ion Battery Anode. <i>Journal of the Electrochemical Society</i> , <b>2011</b> , 158, A592	3.9	62
136	Fluorinated Aromatic Diluent for High-Performance Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14869-14876	16.4	61
135	N-(triphenylphosphoranylidene) aniline as a novel electrolyte additive for high voltage LiCoO <sub>2</sub> operations in lithium ion batteries. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 5195-5200	6.7	60
134	Spiers Memorial Lecture. Molecular mechanics and molecular electronics. <i>Faraday Discussions</i> , <b>2006</b> , 131, 9-22; discussion 91-109	3.6	59
133	Mussel-Inspired Coating and Adhesion for Rechargeable Batteries: A Review. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7562-7573	9.5	58



132	Wisdom from the Human Eye: A Synthetic Melanin Radical Scavenger for Improved Cycle Life of LiO <sub>2</sub> Battery. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4757-4764	9.6	58
131	Metal current collector-free freestanding silicon-carbon 1D nanocomposites for ultralight anodes in lithium ion batteries. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 8311-8316	8.9	56
130	5L-Scale Magnesio-Milling Reduction of Nanostructured SiO for High Capacity Silicon Anodes in Lithium-Ion Batteries. <i>Nano Letters</i> , <b>2016</b> , 16, 7261-7269	11.5	55
129	Defect-Controlled Formation of Triclinic Na <sub>2</sub> CoP <sub>2</sub> O <sub>7</sub> for 4 V Sodium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 6662-6	16.4	55
128	Improved cycle lives of LiMn <sub>2</sub> O <sub>4</sub> cathodes in lithium ion batteries by an alginate biopolymer from seaweed. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 15224	13	55
127	Self-Terminated Artificial SEI Layer for Nickel-Rich Layered Cathode Material via Mixed Gas Chemical Vapor Deposition. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 7370-7379	9.6	53
126	Mixed Transition Metal Oxide with Vacancy-Induced Lattice Distortion for Enhanced Catalytic Activity of Oxygen Evolution Reaction. <i>ACS Catalysis</i> , <b>2019</b> , 9, 7099-7108	13.1	52
125	Recent Progress in High Donor Electrolytes for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001456	21.8	51
124	Intercalated Water and Organic Molecules for Electrode Materials of Rechargeable Batteries. <i>Advanced Materials</i> , <b>2018</b> , 30, e1705851	24	50
123	A Pyrene-Poly(acrylic acid)-Polyrotaxane Supramolecular Binder Network for High-Performance Silicon Negative Electrodes. <i>Advanced Materials</i> , <b>2019</b> , 31, e1905048	24	50
122	Effects of lithium salts on thermal stabilities of lithium alkyl carbonates in SEI layer. <i>Electrochimica Acta</i> , <b>2012</b> , 83, 259-263	6.7	50
121	An Electrochemical Cell for Selective Lithium Capture from Seawater. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 9415-22	10.3	47
120	Opportunities and Reality of Aqueous Rechargeable Batteries. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001386	13.86	46
119	On the Mechanism of Crystal Water Insertion during Anomalous Spinel-to-Birnessite Phase Transition. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5488-5494	9.6	44
118	Mechanism of Co <sub>3</sub> O <sub>4</sub> /graphene catalytic activity in LiO <sub>2</sub> batteries using carbonate based electrolytes. <i>Electrochimica Acta</i> , <b>2013</b> , 90, 63-70	6.7	44
117	Fast nonlinear ion transport via field-induced hydrodynamic slip in sub-20-nm hydrophilic nanofluidic transistors. <i>Nano Letters</i> , <b>2009</b> , 9, 1315-9	11.5	44
116	Electrochemical Synthesis of Ammonia from Water and Nitrogen: A Lithium-Mediated Approach Using Lithium-Ion Conducting Glass Ceramics. <i>ChemSusChem</i> , <b>2018</b> , 11, 120-124	8.3	43
115	Lithium-Salt Mediated Synthesis of a Covalent Triazine Framework for Highly Stable Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16795-16799	16.4	43



114	Stabilized Octahedral Frameworks in Layered Double Hydroxides by Solid-Solution Mixing of Transition Metals. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1605225	15.6	42
113	Large area multi-stacked lithium-ion batteries for flexible and rollable applications. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 10862-10868	13	42
112	Prospect for Supramolecular Chemistry in High-Energy-Density Rechargeable Batteries. <i>Joule</i> , <b>2019</b> , 3, 662-682	27.8	42
111	Lattice Water for the Enhanced Performance of Amorphous Iron Phosphate in Sodium-Ion Batteries. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 998-1004	20.1	40
110	Robust cycling of Li-O <sub>2</sub> batteries through the synergistic effect of blended electrolytes. <i>ChemSusChem</i> , <b>2013</b> , 6, 443-8	8.3	40
109	Fluorinated Covalent Organic Polymers for High Performance Sulfur Cathodes in Lithium-Sulfur Batteries. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 7910-7921	9.6	39
108	Highly Elastic Polyrotaxane Binders for Mechanically Stable Lithium Hosts in Lithium-Metal Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901645	24	39
107	Poreless Separator and Electrolyte Additive for Lithium-Sulfur Batteries with High Areal Energy Densities. <i>ChemNanoMat</i> , <b>2015</b> , 1, 240-245	3.5	39
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