

Lynden A Archer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

255
papers

28,301
citations

78
h-index

165
g-index

269
ext. papers

31,923
ext. citations

11.7
avg, IF

7.82
L-index

#	Paper	IF	Citations
255	Electroconvection near an ion-selective surface with Butler-Volmer kinetics. <i>Journal of Fluid Mechanics</i> , 2022 , 930,	3.7	2
254	Production of fast-charge Zn-based aqueous batteries via interfacial adsorption of ion-oligomer complexes.. <i>Nature Communications</i> , 2022 , 13, 2283	17.4	6
253	Upgrading Carbonate Electrolytes for Ultra-stable Practical Lithium Metal Batteries.. <i>Angewandte Chemie - International Edition</i> , 2021 , e202116214	16.4	5
252	Second life and recycling: Energy and environmental sustainability perspectives for high-performance lithium-ion batteries. <i>Science Advances</i> , 2021 , 7, eabi7633	14.3	11
251	Dynamic interphase-mediated assembly for deep cycling metal batteries. <i>Science Advances</i> , 2021 , 7, eabj3752	17.52	14
250	On the crystallography and reversibility of lithium electrodeposits at ultrahigh capacity. <i>Nature Communications</i> , 2021 , 12, 6034	17.4	16
249	Textured Electrodes: Manipulating Built-In Crystallographic Heterogeneity of Metal Electrodes via Severe Plastic Deformation. <i>Advanced Materials</i> , 2021 , e2106867	24	14
248	Ultrathin zwitterionic polymeric interphases for stable lithium metal anodes. <i>Matter</i> , 2021 ,	12.7	7
247	The early-stage growth and reversibility of Li electrodeposition in Br-rich electrolytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	9
246	Suppression of electroconvective and morphological instabilities by an imposed cross flow of the electrolyte. <i>Physical Review Fluids</i> , 2021 , 6,	2.8	3
245	Regulating electrodeposition morphology in high-capacity aluminium and zinc battery anodes using interfacial metal-substrate bonding. <i>Nature Energy</i> , 2021 , 6, 398-406	62.3	51
244	Structure and Dynamics of Electric-Field-Driven Convective Flows at the Interface between Liquid Electrolytes and Ion-Selective Membranes. <i>Langmuir</i> , 2021 , 37, 5895-5901	4	2
243	Stabilizing metal battery anodes through the design of solid electrolyte interphases. <i>Joule</i> , 2021 , 5, 1119-1184	18.42	54
242	Stabilizing Zinc Electrodeposition in a Battery Anode by Controlling Crystal Growth. <i>Small</i> , 2021 , 17, e2101798	18	18
241	Effects of Geometric Confinement on Caging and Dynamics of Polymer-Tethered Nanoparticle Suspensions. <i>Macromolecules</i> , 2021 , 54, 426-439	5.5	6
240	Semiconducting Metal-Organic Polymer Nanosheets for a Photoinvolved Li-O Battery under Visible Light. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1941-1947	16.4	45
239	Suppression of dendrite growth by cross-flow in microfluidics. <i>Science Advances</i> , 2021 , 7,	14.3	7

238	Controlling electrochemical growth of metallic zinc electrodes: Toward affordable rechargeable energy storage systems. <i>Science Advances</i> , 2021 , 7, 1401-1405	14.3	78
237	Engineering Multiscale Coupled Electron/Ion Transport in Battery Electrodes.. <i>ACS Nano</i> , 2021 , 15, 19014-19025	16.5	15
236	Designing Polymeric Interphases for Stable Lithium Metal Deposition. <i>Nano Letters</i> , 2020 , 20, 5749-5758	11.5	16
235	Spontaneous and field-induced crystallographic reorientation of metal electrodeposits at battery anodes. <i>Science Advances</i> , 2020 , 6, eabb1122	14.3	64
234	Nanoscale Elemental Mapping of Intact Solid-Liquid Interfaces and Reactive Materials in Energy Devices Enabled by Cryo-FIB/SEM. <i>ACS Energy Letters</i> , 2020 , 5, 1224-1232	20.1	13
233	Electrodeposition of Zinc in Aqueous Electrolytes Containing High Molecular Weight Polymers. <i>Macromolecules</i> , 2020 , 53, 2694-2701	5.5	14
232	Regulating electrodeposition morphology of lithium: towards commercially relevant secondary Li metal batteries. <i>Chemical Society Reviews</i> , 2020 , 49, 2701-2750	58.5	160
231	Achieving Uniform Lithium Electrodeposition in Cross-Linked Poly(ethylene oxide) Networks: Soft Polymers Prevent Metal Dendrite Proliferation. <i>Macromolecules</i> , 2020 , 53, 5445-5454	5.5	12
230	Controlling dendrite growth in lithium metal batteries through forced advection. <i>Journal of Power Sources</i> , 2020 , 452, 227760	8.9	11
229	Rechargeable Lithium Metal Batteries with an In-Built Solid-State Polymer Electrolyte and a High Voltage/Loading Ni-Rich Layered Cathode. <i>Advanced Materials</i> , 2020 , 32, e1905629	24	59
228	Designing solid-state electrolytes for safe, energy-dense batteries. <i>Nature Reviews Materials</i> , 2020 , 5, 229-252	73.3	484
227	Proton Intercalation/De-Intercalation Dynamics in Vanadium Oxides for Aqueous Aluminum Electrochemical Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3048-3052	16.4	67
226	Proton Intercalation/De-Intercalation Dynamics in Vanadium Oxides for Aqueous Aluminum Electrochemical Cells. <i>Angewandte Chemie</i> , 2020 , 132, 3072-3076	3.6	11
225	Designing electrolytes with polymerlike glass-forming properties and fast ion transport at low temperatures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 26053-26060	11.5	26
224	Structure, Rheology, and Electrokinetics of Soft Colloidal Suspension Electrolytes. <i>Langmuir</i> , 2020 , 36, 9047-9053	4	3
223	In-Built Polymer-in-Solvent and Solvent-in-Polymer Electrolytes for High-Voltage Lithium Metal Batteries. <i>Cell Reports Physical Science</i> , 2020 , 1, 100146	6.1	4
222	Regulating the growth of aluminum electrodeposits: towards anode-free Al batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23231-23238	13	10
221	On the Reversibility and Fragility of Sodium Metal Electrodes. <i>Advanced Energy Materials</i> , 2019 , 9, 1901651-1901658	11.8	31

220	Enabling reversible redox reactions in electrochemical cells using protected LiAl intermetallics as lithium metal anodes. <i>Science Advances</i> , 2019 , 5, eaax5587	14.3	50
219	Synthesis and Properties of Poly-Ether/Ethylene Carbonate Electrolytes with High Oxidative Stability. <i>Chemistry of Materials</i> , 2019 , 31, 8466-8472	9.6	20
218	Solid-state polymer electrolytes for high-performance lithium metal batteries. <i>Nature Communications</i> , 2019 , 10, 4398	17.4	90
217	Nucleation and Early Stage Growth of Li Electrodeposits. <i>Nano Letters</i> , 2019 , 19, 8191-8200	11.5	81
216	Electrolytic vascular systems for energy-dense robots. <i>Nature</i> , 2019 , 571, 51-57	50.4	72
215	Electrokinetics in Viscoelastic Liquid Electrolytes above the Diffusion Limit. <i>Macromolecules</i> , 2019 , 52, 4666-4672	5.5	10
214	Physical Orphaning versus Chemical Instability: Is Dendritic Electrodeposition of Li Fatal?. <i>ACS Energy Letters</i> , 2019 , 4, 1349-1355	20.1	51
213	Solid-state polymer electrolytes with in-built fast interfacial transport for secondary lithium batteries. <i>Nature Energy</i> , 2019 , 4, 365-373	62.3	363
212	Electroconvection in a Viscoelastic Electrolyte. <i>Physical Review Letters</i> , 2019 , 122, 124501	7.4	29
211	Oligomerization, Isomerization and Carboxylation of Alkanes and Alkenes with Galvanostatically Generated Superoxide in the Al/O ₂ Electrochemical Cell. <i>Angewandte Chemie</i> , 2019 , 131, 2658-2663	3.6	1
210	Stabilizing polymer electrolytes in high-voltage lithium batteries. <i>Nature Communications</i> , 2019 , 10, 3091	17.4	63
209	High-resolution Electron Imaging and Spectroscopy of Reactive Materials and Liquid-Solid Interfaces in Energy Storage Devices. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2028-2029	0.5	1
208	Microscopic Origins of Caging and Equilibration of Self-Suspended Hairy Nanoparticles. <i>Macromolecules</i> , 2019 , 52, 8187-8196	5.5	6
207	Reversible epitaxial electrodeposition of metals in battery anodes. <i>Science</i> , 2019 , 366, 645-648	33.3	512
206	Solid-state polymer electrolytes stabilized by task-specific salt additives. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7823-7830	13	48
205	Oligomerization, Isomerization and Carboxylation of Alkanes and Alkenes with Galvanostatically Generated Superoxide in the Al/O Electrochemical Cell. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2632-2637	16.4	3
204	Nonplanar Electrode Architectures for Ultrahigh Areal Capacity Batteries. <i>ACS Energy Letters</i> , 2019 , 4, 271-275	20.1	22
203	Multifunctional Cross-Linked Polymeric Membranes for Safe, High-Performance Lithium Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 2058-2066	9.6	39

202	Fast ion transport at solid-solid interfaces in hybrid battery anodes. <i>Nature Energy</i> , 2018 , 3, 310-316	62.3	313
201	Titelbild: Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries (Angew. Chem. 4/2018). <i>Angewandte Chemie</i> , 2018 , 130, 863-863	3.6	
200	Design Principles of Functional Polymer Separators for High-Energy, Metal-Based Batteries. <i>Small</i> , 2018 , 14, e1703001	11	111
199	Stabilizing electrochemical interfaces in viscoelastic liquid electrolytes. <i>Science Advances</i> , 2018 , 4, eaao6243	62.3	60
198	Interphases in Lithium-Sulfur Batteries: Toward Deployable Devices with Competitive Energy Density and Stability. <i>ACS Energy Letters</i> , 2018 , 3, 2104-2113	20.1	42
197	Soft Colloidal Glasses as Solid-State Electrolytes. <i>Chemistry of Materials</i> , 2018 , 30, 5996-6004	9.6	43
196	Stabilizing Protic and Aprotic Liquid Electrolytes at High-Bandgap Oxide Interphases. <i>Chemistry of Materials</i> , 2018 , 30, 5655-5662	9.6	31
195	Cryo-STEM mapping of solid-liquid interfaces and dendrites in lithium-metal batteries. <i>Nature</i> , 2018 , 560, 345-349	50.4	390
194	Probing the Native Structure and Chemistry of Dendrites and SEI Layers in Li-Metal Batteries by Cryo-FIB Lift-Out and Cryo-STEM. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1518-1519	0.5	1
193	Confining electrodeposition of metals in structured electrolytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6620-6625	11.5	42
192	Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 992-996	16.4	139
191	Electrochemical Interphases for High-Energy Storage Using Reactive Metal Anodes. <i>Accounts of Chemical Research</i> , 2018 , 51, 80-88	24.3	114
190	Building Organic/Inorganic Hybrid Interphases for Fast Interfacial Transport in Rechargeable Metal Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 1004-1008	3.6	44
189	Dynamics of Nanoparticles in Entangled Polymer Solutions. <i>Langmuir</i> , 2018 , 34, 241-249	4	29
188	Solid electrolyte interphases for high-energy aqueous aluminum electrochemical cells. <i>Science Advances</i> , 2018 , 4, eaau8131	14.3	121
187	Electroconvection and Morphological Instabilities in Potentiostatic Electrodeposition across Liquid Electrolytes with Polymer Additives. <i>Journal of the Electrochemical Society</i> , 2018 , 165, A3697-A3713	3.9	17
186	Langmuir-Blodgett artificial solid-electrolyte interphases for practical lithium metal batteries. <i>Nature Energy</i> , 2018 , 3, 889-898	62.3	237
185	Solid-Liquid Electrolyte as a Nanoion Modulator for Dendrite-Free Lithium Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 20412-20421	9.5	15

184	Highly Stable Sodium Batteries Enabled by Functional Ionic Polymer Membranes. <i>Advanced Materials</i> , 2017 , 29, 1605512	24	151
183	Nanoporous Hybrid Electrolytes for High-Energy Batteries Based on Reactive Metal Anodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1602367	21.8	95
182	Regulating Li deposition at artificial solid electrolyte interphases. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3483-3492	13	206
181	Characterization of Sulfur and Nanostructured Sulfur Battery Cathodes in Electron Microscopy Without Sublimation Artifacts. <i>Microscopy and Microanalysis</i> , 2017 , 23, 155-162	0.5	32
180	Designer interphases for the lithium-oxygen electrochemical cell. <i>Science Advances</i> , 2017 , 3, e1602809	14.3	76
179	Stable Artificial Solid Electrolyte Interphases for Lithium Batteries. <i>Chemistry of Materials</i> , 2017 , 29, 4181-4189	15.1	151
178	Self-suspended polymer grafted nanoparticles. <i>Current Opinion in Chemical Engineering</i> , 2017 , 16, 92-101	5.4	29
177	High-Capacity and Ultrafast Na-Ion Storage of a Self-Supported 3D Porous Antimony Persulfide-Graphene Foam Architecture. <i>Nano Letters</i> , 2017 , 17, 3668-3674	11.5	109
176	Sodium Batteries: Highly Stable Sodium Batteries Enabled by Functional Ionic Polymer Membranes (Adv. Mater. 12/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
175	Designing solid-liquid interphases for sodium batteries. <i>Nature Communications</i> , 2017 , 8, 898	17.4	212
174	Designing solid-electrolyte interphases for lithium sulfur electrodes using ionic shields. <i>Nano Energy</i> , 2017 , 41, 573-582	17.1	28
173	Designing Artificial Solid-Electrolyte Interphases for Single-Ion and High-Efficiency Transport in Batteries. <i>Joule</i> , 2017 , 1, 394-406	27.8	146
172	Revealing the Nanoscale Structure and Chemistry of Intact Solid-Liquid Interfaces in Electrochemical Energy Storage Devices by Cryo-FIB Lift-Out and Cryo-STEM. <i>Microscopy and Microanalysis</i> , 2017 , 23, 2004-2005	0.5	
171	Electroless Formation of Hybrid Lithium Anodes for Fast Interfacial Ion Transport. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13070-13077	16.4	107
170	Electroless Formation of Hybrid Lithium Anodes for Fast Interfacial Ion Transport. <i>Angewandte Chemie</i> , 2017 , 129, 13250-13257	3.6	10
169	Multifunctional Separator Coatings for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600450	4.6	51
168	Multiscale Dynamics of Polymers in Particle-Rich Nanocomposites. <i>Macromolecules</i> , 2016 , 49, 5202-5212	5.5	24
167	A stable room-temperature sodium-sulfur battery. <i>Nature Communications</i> , 2016 , 7, 11722	17.4	353

166	Design principles for electrolytes and interfaces for stable lithium-metal batteries. <i>Nature Energy</i> , 2016 , 1,	62.3	990
165	Molecular Origins of Temperature-Induced Jamming in Self-Suspended Hairy Nanoparticles. <i>Macromolecules</i> , 2016 , 49, 8738-8747	5.5	22
164	The O ₂ -assisted Al/CO ₂ electrochemical cell: A system for CO ₂ capture/conversion and electric power generation. <i>Science Advances</i> , 2016 , 2, e1600968	14.3	85
163	Stabilizing electrodeposition in elastic solid electrolytes containing immobilized anions. <i>Science Advances</i> , 2016 , 2, e1600320	14.3	183
162	The Sodium-Oxygen/Carbon Dioxide Electrochemical Cell. <i>ChemSusChem</i> , 2016 , 9, 1600-6	8.3	13
161	Highly Conductive, Sulfonated, UV-Cross-Linked Separators for LiS Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 5147-5154	9.6	70
160	Size-Dependent Particle Dynamics in Entangled Polymer Nanocomposites. <i>Langmuir</i> , 2016 , 32, 596-603	4	53
159	Enhanced Li-S Batteries Using Amine-Functionalized Carbon Nanotubes in the Cathode. <i>ACS Nano</i> , 2016 , 10, 1050-9	16.7	251
158	Hybrid Hairy Nanoparticle Electrolytes Stabilizing Lithium Metal Batteries. <i>Chemistry of Materials</i> , 2016 , 28, 2147-2157	9.6	57
157	Lithium Fluoride Additives for Stable Cycling of Lithium Batteries at High Current Densities. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500246	6.4	241
156	Enthalpy-Driven Stabilization of Dispersions of Polymer-Grafted Nanoparticles in High-Molecular-Weight Polymer Melts. <i>Langmuir</i> , 2016 , 32, 10621-10631	4	14
155	Structure-property study of cross-linked hydrocarbon/poly(ethylene oxide) electrolytes with superior conductivity and dendrite resistance. <i>Chemical Science</i> , 2016 , 7, 6832-6838	9.4	58
154	Interactions, Structure, and Dynamics of Polymer-Tethered Nanoparticle Blends. <i>Langmuir</i> , 2016 , 32, 8698-708	4	21
153	A novel non-aqueous aluminum sulfur battery. <i>Journal of Power Sources</i> , 2015 , 283, 416-422	8.9	153
152	Phase stability and dynamics of entangled polymer-nanoparticle composites. <i>Nature Communications</i> , 2015 , 6, 7198	17.4	123
151	Dynamics and yielding of binary self-suspended nanoparticle fluids. <i>Soft Matter</i> , 2015 , 11, 5224-34	3.6	21
150	Nanomaterials: Science and applications in the lithium-sulfur battery. <i>Nano Today</i> , 2015 , 10, 315-338	17.9	282
149	Self-suspended suspensions of covalently grafted hairy nanoparticles. <i>Langmuir</i> , 2015 , 31, 3222-31	4	34

148	Model Membrane-Free Li-S Batteries for Enhanced Performance and Cycle Life. <i>Advanced Science</i> , 2015 , 2, 1500068	13.6	35
147	Nanostructured electrolytes for stable lithium electrodeposition in secondary batteries. <i>Accounts of Chemical Research</i> , 2015 , 48, 2947-56	24.3	161
146	Nucleation and Growth of Lithium Peroxide in the Li-O ₂ Battery. <i>Nano Letters</i> , 2015 , 15, 5995-6002	11.5	127
145	CO ₂ and ambient air in metal-oxygen batteries: steps towards reality. <i>Inorganic Chemistry Frontiers</i> , 2015 , 2, 1070-1079	6.8	35
144	Relaxation Dynamics of Nanoparticle-Tethered Polymer Chains. <i>Macromolecules</i> , 2015 , 48, 6280-6293	5.5	73
143	Hybrid cathode architectures for lithium batteries based on TiS ₂ and sulfur. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19857-19866	13	111
142	Metal-Sulfur Battery Cathodes Based on PAN-Sulfur Composites. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12143-52	16.4	376
141	Hyperdiffusive Dynamics in Newtonian Nanoparticle Fluids. <i>ACS Macro Letters</i> , 2015 , 4, 1149-1153	6.6	23
140	High voltage LIB cathodes enabled by salt-reinforced liquid electrolytes. <i>Electrochemistry Communications</i> , 2015 , 51, 23-26	5.1	18
139	The average stress in a suspension of cube-shaped magnetic particles subject to shear and magnetic fields. <i>Physics of Fluids</i> , 2015 , 27, 093101	4.4	3
138	A highly reversible room-temperature lithium metal battery based on crosslinked hairy nanoparticles. <i>Nature Communications</i> , 2015 , 6, 10101	17.4	333
137	A highly conductive, non-flammable polymer-nanoparticle hybrid electrolyte. <i>RSC Advances</i> , 2015 , 5, 20800-20809	3.7	56
136	A Dendrite-Free Lithium Metal Battery Model Based on Nanoporous Polymer/Ceramic Composite Electrolytes and High-Energy Electrodes. <i>Small</i> , 2015 , 11, 2631-5	11	41
135	Stable Cycling of Lithium Metal Batteries Using High Transference Number Electrolytes. <i>Advanced Energy Materials</i> , 2015 , 5, 1402073	21.8	252
134	Dynamics and Rheology of Soft Colloidal Glasses. <i>ACS Macro Letters</i> , 2015 , 4, 119-123	6.6	26
133	Stable lithium electrodeposition in salt-reinforced electrolytes. <i>Journal of Power Sources</i> , 2015 , 279, 413-418	8.9	94
132	Ionic-liquid-nanoparticle hybrid electrolytes: applications in lithium metal batteries. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 488-92	16.4	255
131	Nanoporous Polymer-Ceramic Composite Electrolytes for Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2014 , 4, 1300654	21.8	199

130	Sodium-oxygen batteries: a new class of metal-air batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12623	13	143
129	Piperidinium tethered nanoparticle-hybrid electrolyte for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11866-11873	13	36
128	A rechargeable Na-O ₂ /O ₂ battery enabled by stable nanoparticle hybrid electrolytes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17723-17729	13	79
127	Structure, Ion Transport, and Rheology of Nanoparticle Salts. <i>Macromolecules</i> , 2014 , 47, 4479-4492	5.5	21
126	Stable lithium electrodeposition in liquid and nanoporous solid electrolytes. <i>Nature Materials</i> , 2014 , 13, 961-9	27	1096
125	Structure factor of blends of solvent-free nanoparticle-organic hybrid materials: density-functional theory and small angle X-ray scattering. <i>Soft Matter</i> , 2014 , 10, 9120-35	3.6	27
124	25th anniversary article: polymer-particle composites: phase stability and applications in electrochemical energy storage. <i>Advanced Materials</i> , 2014 , 26, 201-34	24	210
123	Nanoparticle tracers in calcium carbonate porous media. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	13
122	Ionic-Liquid-Nanoparticle Hybrid Electrolytes: Applications in Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2014 , 126, 498-502	3.6	66
121	Suppression of lithium dendrite growth using cross-linked polyethylene/poly(ethylene oxide) electrolytes: a new approach for practical lithium-metal polymer batteries. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7395-402	16.4	600
120	Hierarchical Structure in Semicrystalline Polymers Tethered to Nanospheres. <i>Macromolecules</i> , 2014 , 47, 687-694	5.5	33
119	Tethered Molecular Sorbents: Enabling Metal-Sulfur Battery Cathodes. <i>Advanced Energy Materials</i> , 2014 , 4, 1400390	21.8	67
118	Stability Analysis of Electrodeposition across a Structured Electrolyte with Immobilized Anions. <i>Journal of the Electrochemical Society</i> , 2014 , 161, A847-A855	3.9	159
117	Aerosol assisted synthesis of hierarchical tin-carbon composites and their application as lithium battery anode materials. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8710	13	47
116	Carbon dioxide assist for non-aqueous sodium-oxygen batteries. <i>Electrochemistry Communications</i> , 2013 , 27, 59-62	5.1	90
115	Flow field visualization of entangled polybutadiene solutions under nonlinear viscoelastic flow conditions. <i>Journal of Rheology</i> , 2013 , 57, 1411-1428	4.1	52
114	High Lithium Transference Number Electrolytes via Creation of 3-Dimensional, Charged, Nanoporous Networks from Dense Functionalized Nanoparticle Composites. <i>Chemistry of Materials</i> , 2013 , 25, 834-839	9.6	152
113	Mesoporous silicon-carbon composites via nanoparticle-seeded dispersion polymerization and their application as lithium-ion battery anode materials. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5709	13	24

112	Intrinsic viscosity of a suspension of cubes. <i>Physical Review E</i> , 2013 , 88, 052302	2.4	10
111	Lithium-sulfur battery cathode enabled by lithium-nitrile interaction. <i>Journal of the American Chemical Society</i> , 2013 , 135, 763-7	16.4	310
110	Interdispersed silicon-carbon nanocomposites and their application as anode materials for lithium-ion batteries. <i>Electrochemistry Communications</i> , 2013 , 28, 40-43	5.1	27
109	In situ synthesis of lithium sulfide-carbon composites as cathode materials for rechargeable lithium batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1433-1440	13	120
108	The Li-CO ₂ battery: a novel method for CO ₂ capture and utilization. <i>RSC Advances</i> , 2013 , 3, 6656	3.7	202
107	Structure and transport anomalies in soft colloids. <i>Physical Review Letters</i> , 2013 , 110, 148302	7.4	20
106	Composite lithium battery anodes based on carbon@Co ₃ O ₄ nanostructures: Synthesis and characterization. <i>Journal of Power Sources</i> , 2012 , 200, 53-58	8.9	95
105	Crowded, confined, and frustrated: dynamics of molecules tethered to nanoparticles. <i>Physical Review Letters</i> , 2012 , 109, 258301	7.4	50
104	Ionic liquid-nanoparticle hybrid electrolytes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4066		118
103	Structure and rheology of nanoparticle-polymer suspensions. <i>Soft Matter</i> , 2012 , 8, 4097	3.6	54
102	Polymer nanocomposites: polymer and particle dynamics. <i>Soft Matter</i> , 2012 , 8, 10813	3.6	66
101	Tethered nanoparticle-polymer composites: phase stability and curvature. <i>Langmuir</i> , 2012 , 28, 6276-81	4	114
100	High energy lithium-oxygen batteries - transport barriers and thermodynamics. <i>Energy and Environmental Science</i> , 2012 , 5, 8927	35.4	47
99	Synthesis of organic-organic hybrids by miniemulsion polymerization and their application for electrochemical energy storage. <i>Energy and Environmental Science</i> , 2012 , 5, 7025	35.4	29
98	Self-assembled MoS ₂ -carbon nanostructures: influence of nanostructuring and carbon on lithium battery performance. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12988		115
97	Ionic liquid-nanoparticle hybrid electrolytes and their application in secondary lithium-metal batteries. <i>Advanced Materials</i> , 2012 , 24, 4430-5	24	253
96	Ionic Liquid-Tethered Nanoparticle Suspensions: A Novel Class of Ionogels. <i>Chemistry of Materials</i> , 2012 , 24, 1386-1392	9.6	101
95	Electrolytes for high-energy lithium batteries. <i>Applied Nanoscience (Switzerland)</i> , 2012 , 2, 91-109	3.3	71

94	Formation of SnO ₂ hollow nanospheres inside mesoporous silica nanoreactors. <i>Journal of the American Chemical Society</i> , 2011 , 133, 21-3	16.4	364
93	SnO ₂ hollow structures and TiO ₂ nanosheets for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9912		308
92	An in situ method of creating metal oxide/carbon composites and their application as anode materials for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 11092		117
91	Effect of pendent chains on the interfacial properties of thin polydimethylsiloxane (PDMS) networks. <i>Langmuir</i> , 2011 , 27, 5944-52	4	10
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