Dayoung Kang

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.

287 papers	31,214 citations	87 h-index	172 g-index
306 ext. papers	35,163 ext. citations	15 avg, IF	7.45 L-index

#	Paper	IF	Citations
287	High-energy and durable lithium metal batteries using garnet-type solid electrolytes with tailored lithium-metal compatibility.. *Nature Communications*, **2022**, 13, 1883	17.4	14
286	Unveiling the Role of Transition-Metal Ions in the Thermal Degradation of Layered Ni□Co□Mn Cathodes for Lithium Rechargeable Batteries. *Advanced Functional Materials*, **2022**, 32, 2108790	15.6	3
285	Multifunctional Interface for High-Rate and Long-Durable Garnet-Type Solid Electrolyte in Lithium Metal Batteries. *ACS Energy Letters*, **2022**, 7, 381-389	20.1	11
284	Challenges and Strategies towards Practically Feasible Solid-State Lithium Metal Batteries. *Advanced Materials*, **2021**, 34, e2104666	24	15
283	Versatile Redox-Active Organic Materials for Rechargeable Energy Storage. *Accounts of Chemical Research*, **2021**, 54, 4423-4433	24.3	4
282	A new high-voltage calcium intercalation host for ultra-stable and high-power calcium rechargeable batteries. *Nature Communications*, **2021**, 12, 3369	17.4	13
281	Probing Lithium Metals in Batteries by Advanced Characterization and Analysis Tools. *Advanced Energy Materials*, **2021**, 11, 2003039	21.8	17
280	Interfacial Engineering in a Cathode Composite Based on Garnet-Type Solid-State Li-Ion Battery with High Voltage Cycling. *ChemElectroChem*, **2021**, 8, 570-576	4.3	4
279	Multi-redox phenazine/non-oxidized graphene/cellulose nanohybrids as ultrathick cathodes for high-energy organic batteries. *Nano Research*, **2021**, 14, 1382-1389	10	7
278	Permselective metal-organic framework gel membrane enables long-life cycling of rechargeable organic batteries. *Nature Nanotechnology*, **2021**, 16, 77-84	28.7	43
277	Revisiting the role of Zr doping in Ni-rich layered cathodes for lithium-ion batteries. *Journal of Materials Chemistry A*, **2021**, 9, 17415-17424	13	9
276	A p□ fusion strategy to design bipolar organic materials for high-energy-density symmetric batteries. *Journal of Materials Chemistry A*, **2021**, 9, 14485-14494	13	3
275	New Insight into Microstructure Engineering of Ni-Rich Layered Oxide Cathode for High Performance Lithium Ion Batteries. *Advanced Functional Materials*, **2021**, 31, 2010095	15.6	31
274	A Biodegradable Secondary Battery and its Biodegradation Mechanism for Eco-Friendly Energy-Storage Systems. *Advanced Materials*, **2021**, 33, e2004902	24	13
273	Liquid-Based Janus Electrolyte for Sustainable Redox Mediation in Lithium□Oxygen Batteries. *Advanced Energy Materials*, **2021**, 11, 2102096	21.8	2
272	Pyrrolinium-Substituted Persistent Zwitterionic Ferrocenate Derivative Enabling the Application of Ferrocene Anolyte. *ACS Applied Materials & Interfaces*, **2021**, 13, 46558-46565	9.5	1
271	Highly persistent triphenylamine-based catholyte for durable organic redox flow batteries. *Energy Storage Materials*, **2021**, 42, 185-192	19.4	4

270	Non-electrode Components for Rechargeable Aqueous Zinc Batteries: Electrolytes, Solid-Electrolyte-Interphase, Current Collectors, Binders, and Separators.. *Advanced Materials*, **2021**, e2108206	24	9
269	Understanding capacity fading mechanism of thick electrodes for lithium-ion rechargeable batteries. *Journal of Power Sources*, **2020**, 468, 228369	8.9	14
268	Redox-Active Organic Compounds for Future Sustainable Energy Storage System. *Advanced Energy Materials*, **2020**, 10, 2001445	21.8	73
267	Phenoxazine as a high-voltage p-type redox center for organic battery cathode materials: small structural reorganization for faster charging and narrow operating voltage. *Energy and Environmental Science*, **2020**, 13, 4142-4156	35.4	25
266	Anionic Redox Activity Regulated by Transition Metal in Lithium-Rich Layered Oxides. *Advanced Energy Materials*, **2020**, 10, 2001207	21.8	19
265	Blue Graphene Quantum Dots with High Color Purity by Controlling Subdomain Formation for Light-Emitting Devices. *ACS Applied Nano Materials*, **2020**, 3, 6469-6477	5.6	9
264	Utilizing Latent Multi-Redox Activity of p-Type Organic Cathode Materials toward High Energy Density Lithium-Organic Batteries. *Advanced Energy Materials*, **2020**, 10, 2001635	21.8	22
263	Predicting the chemical reactivity of organic materials using a machine-learning approach. *Chemical Science*, **2020**, 11, 7813-7822	9.4	13
262	Planting Repulsion Centers for Faster Ionic Diffusion in Superionic Conductors. *Angewandte Chemie - International Edition*, **2020**, 59, 18457-18462	16.4	4
261	Planting Repulsion Centers for Faster Ionic Diffusion in Superionic Conductors. *Angewandte Chemie*, **2020**, 132, 18615-18620	3.6	
260	The Role of Interlayer Chemistry in Li-Metal Growth through a Garnet-Type Solid Electrolyte. *Advanced Energy Materials*, **2020**, 10, 1903993	21.8	62
259	Design and synthesis of multigrain nanocrystals via geometric misfit strain. *Nature*, **2020**, 577, 359-363	50.4	36
258	Calcium-Ion Batteries: Stable and High-Power Calcium-Ion Batteries Enabled by Calcium Intercalation into Graphite (Adv. Mater. 4/2020). *Advanced Materials*, **2020**, 32, 2070029	24	2
257	Anchored Mediator Enabling Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 5376-5380	16.4	18
256	Voltage decay and redox asymmetry mitigation by reversible cation migration in lithium-rich layered oxide electrodes. *Nature Materials*, **2020**, 19, 419-427	27	171
255	Solvated Ion Intercalation in Graphite: Sodium and Beyond. *Frontiers in Chemistry*, **2020**, 8, 432	5	20
254	A new lithium diffusion model in layered oxides based on asymmetric but reversible transition metal migration. *Energy and Environmental Science*, **2020**, 13, 1269-1278	35.4	20
253	Enhancing the cycle stability of Li$\square$2 batteries via functionalized carbon nanotube-based electrodes. *Journal of Materials Chemistry A*, **2020**, 8, 4263-4273	13	9

252	Stable and High-Power Calcium-Ion Batteries Enabled by Calcium Intercalation into Graphite. *Advanced Materials*, **2020**, 32, e1904411	24	52
251	Nanoscale Phenomena in Lithium-Ion Batteries. *Chemical Reviews*, **2020**, 120, 6684-6737	68.1	67
250	Controlling Residual Lithium in High-Nickel (>90 %) Lithium Layered Oxides for Cathodes in Lithium-Ion Batteries. *Angewandte Chemie*, **2020**, 132, 18821-18828	3.6	1
249	Real-time visualization of Zn metal plating/stripping in aqueous batteries with high areal capacities. *Journal of Power Sources*, **2020**, 472, 228334	8.9	9
248	Tunable Redox-Active Triazenyl-Carbene Platforms: A New Class of Anolytes for Non-Aqueous Organic Redox Flow Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 37338-37345	9.5	5
247	Controlling Residual Lithium in High-Nickel (>90 %) Lithium Layered Oxides for Cathodes in Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2020**, 59, 18662-18669	16.4	34
246	Tailoring Ion-Conducting Interphases on Magnesium Metals for High-Efficiency Rechargeable Magnesium Metal Batteries. *ACS Energy Letters*, **2020**, 5, 3733-3740	20.1	9
245	Aqueous ionic effect on electrochemical breakdown of Si-dielectric-electrolyte interface. *Scientific Reports*, **2020**, 10, 16795	4.9	2
244	Dual-Functioning Molecular Carrier of Superoxide Radicals for Stable and Efficient Lithium□Oxygen Batteries. *Advanced Energy Materials*, **2020**, 10, 1904187	21.8	6
243	High-Voltage Phosphate Cathodes for Rechargeable Ca-Ion Batteries. *ACS Energy Letters*, **2020**, 5, 3203-3211	20.1	32
242	Anchored Mediator Enabling Shuttle-Free Redox Mediation in Lithium-Oxygen Batteries. *Angewandte Chemie*, **2020**, 132, 5414-5418	3.6	9
241	A bifunctional auxiliary electrode for safe lithium metal batteries. *Journal of Materials Chemistry A*, **2019**, 7, 24807-24813	13	3
240	Visualization of regulated nucleation and growth of lithium sulfides for high energy lithium sulfur batteries. *Energy and Environmental Science*, **2019**, 12, 3144-3155	35.4	64
239	Bio-inspired Molecular Redesign of a Multi-redox Catholyte for High-Energy Non-aqueous Organic Redox Flow Batteries. *CheM*, **2019**, 5, 2642-2656	16.2	32
238	Bifunctional Oxygen Electrocatalysts for Lithium□Oxygen Batteries. *Batteries and Supercaps*, **2019**, 2, 311-325	5.6	18
237	Investigation of Li□O2 Battery Performance Integrated with RuO2 Inverse Opal Cathodes in DMSO. *ACS Applied Energy Materials*, **2019**, 2, 5109-5115	6.1	6
236	Tailoring sodium intercalation in graphite for high energy and power sodium ion batteries. *Nature Communications*, **2019**, 10, 2598	17.4	115
235	Direct Observation of Redox Mediator-Assisted Solution-Phase Discharging of Li-O Battery by Liquid-Phase Transmission Electron Microscopy. *Journal of the American Chemical Society*, **2019**, 141, 8047-8052	16.4	39

234	Bifunctional Oxygen Electrocatalysts for Lithium-Oxygen Batteries. *Batteries and Supercaps*, **2019**, 2, 269-269	5.6	1
233	Charge-transfer complexes for high-power organic rechargeable batteries. *Energy Storage Materials*, **2019**, 20, 462-469	19.4	42
232	Redox Mediators: A Solution for Advanced Lithium□Oxygen Batteries. *Trends in Chemistry*, **2019**, 1, 349-360	14.8	36
231	Pseudocapacitive Behavior and Ultrafast Kinetics from Solvated Ion Cointercalation into MoS2 for Its Alkali Ion Storage. *ACS Applied Energy Materials*, **2019**, 2, 3726-3735	6.1	2
230	In operando formation of new iron-oxyfluoride host structure for Na-ion storage from NaF□FeO nanocomposite. *Energy Storage Materials*, **2019**, 23, 427-433	19.4	4
229	Toward a low-cost high-voltage sodium aqueous rechargeable battery. *Materials Today*, **2019**, 29, 26-36	21.8	101
228	Chemical Origins of Electrochemical Overpotential in Surface-Conversion Nanocomposite Cathodes. *Advanced Energy Materials*, **2019**, 9, 1900503	21.8	4
227	The role of substituents in determining the redox potential of organic electrode materials in Li and Na rechargeable batteries: electronic effects vs. substituent-Li/Na ionic interaction. *Journal of Materials Chemistry A*, **2019**, 7, 11438-11443	13	23
226	A comparative kinetic study of redox mediators for high-power lithium□oxygen batteries. *Journal of Materials Chemistry A*, **2019**, 7, 6491-6498	13	23
225	First-Principles Investigations on Sodium Superionic Conductor Na11Sn2PS12. *Chemistry of Materials*, **2019**, 31, 6066-6075	9.6	15
224	Amorphous multinary phyllosilicate catalysts for electrochemical water oxidation. *Journal of Materials Chemistry A*, **2019**, 7, 18380-18387	13	10
223	Biological Nicotinamide Cofactor as a Redox-Active Motif for Reversible Electrochemical Energy Storage. *Angewandte Chemie - International Edition*, **2019**, 58, 16764-16769	16.4	11
222	Biological Nicotinamide Cofactor as a Redox-Active Motif for Reversible Electrochemical Energy Storage. *Angewandte Chemie*, **2019**, 131, 16920-16925	3.6	1
221	Enhancing Bifunctional Catalytic Activity via a Nanostructured La(Sr)Fe(Co)O3□@Pd Matrix as an Efficient Electrocatalyst for Li□2 Batteries. *ACS Applied Energy Materials*, **2019**, 2, 8633-8640	6.1	5
220	Graphitic Carbon Materials for Advanced Sodium-Ion Batteries. *Small Methods*, **2019**, 3, 1800227	12.8	56
219	Biological Redox Mediation in Electron Transport Chain of Bacteria for Oxygen Reduction Reaction Catalysts in Lithium□Oxygen Batteries. *Advanced Functional Materials*, **2019**, 29, 1805623	15.6	34
218	Unveiling the Intrinsic Cycle Reversibility of a LiCoO Electrode at 4.8-V Cutoff Voltage through Subtractive Surface Modification for Lithium-Ion Batteries. *Nano Letters*, **2019**, 19, 29-37	11.5	44
217	New Iron-Based Intercalation Host for Lithium-Ion Batteries. *Chemistry of Materials*, **2018**, 30, 1956-1964	9.6	13

216	Carbon nanomaterials for advanced lithium sulfur batteries. *Nano Today*, **2018**, 19, 84-107	17.9	267
215	High-Rate and High-Areal-Capacity Air Cathodes with Enhanced Cycle Life Based on RuO2/MnO2 Bifunctional Electrocatalysts Supported on CNT for Pragmatic Li□O2 Batteries. *ACS Catalysis*, **2018**, 8, 2923-2934	13.1	38
214	Abnormal self-discharge in lithium-ion batteries. *Energy and Environmental Science*, **2018**, 11, 970-978	35.4	57
213	Conversion-Based Cathode Materials for Rechargeable Sodium Batteries. *Advanced Energy Materials*, **2018**, 8, 1702646	21.8	50
212	Recent Progress on Multimetal Oxide Catalysts for the Oxygen Evolution Reaction. *Advanced Energy Materials*, **2018**, 8, 1702774	21.8	408
211	Enhanced Stability of Coated Carbon Electrode for Li-O2 Batteries and Its Limitations. *Advanced Energy Materials*, **2018**, 8, 1702661	21.8	49
210	Suppression of Voltage Decay through Manganese Deactivation and Nickel Redox Buffering in High-Energy Layered Lithium-Rich Electrodes. *Advanced Energy Materials*, **2018**, 8, 1800606	21.8	54
209	Intrinsic Nanodomains in Triplite LiFeSO4F and Its Implication in Lithium-Ion Diffusion. *Advanced Energy Materials*, **2018**, 8, 1701408	21.8	10
208	Multi-redox Molecule for High-Energy Redox Flow Batteries. *Joule*, **2018**, 2, 1771-1782	27.8	81
207	Anisotropic Surface Modulation of Pt Catalysts for Highly Reversible Li□O2 Batteries: High Index Facet as a Critical Descriptor. *ACS Catalysis*, **2018**, 8, 9006-9015	13.1	41
206	Surface-Modified Spinel LiNi0.5Mn1.5O4 for Li-Ion Batteries. *Journal of the Korean Ceramic Society*, **2018**, 55, 21-35	2.2	10
205	Roll-to-Roll Laser-Printed Graphene-Graphitic Carbon Electrodes for High-Performance Supercapacitors. *ACS Applied Materials & Interfaces*, **2018**, 10, 1033-1038	9.5	21
204	Exploiting Biological Systems: Toward Eco-Friendly and High-Efficiency Rechargeable Batteries. *Joule*, **2018**, 2, 61-75	27.8	74
203	Super-Ionic Conduction in Solid-State Li7P3S11-Type Sulfide Electrolytes. *Chemistry of Materials*, **2018**, 30, 8764-8770	9.6	20
202	Exceptional catalytic effects of black phosphorus quantum dots in shuttling-free lithium sulfur batteries. *Nature Communications*, **2018**, 9, 4164	17.4	210
201	Highly Durable and Stable Sodium Superoxide in Concentrated Electrolytes for Sodium□Oxygen Batteries. *Advanced Energy Materials*, **2018**, 8, 1801760	21.8	8
200	Atomistic Investigation of Doping Effects on Electrocatalytic Properties of Cobalt Oxides for Water Oxidation. *Advanced Science*, **2018**, 5, 1801632	13.6	9
199	Li3BO3□i2CO3: Rationally Designed Buffering Phase for Sulfide All-Solid-State Li-Ion Batteries. *Chemistry of Materials*, **2018**, 30, 8190-8200	9.6	92

198	Enhancement of Oxygen Reduction Reaction Catalytic Activity via the Modified Surface of La0.6Sr0.4Co0.2Fe0.8O3 with Palladium Nanoparticles as Cathode for Lithium–Air Battery. *ACS Applied Energy Materials*, **2018**,	6.1	9
197	Deposition and Stripping Behavior of Lithium Metal in Electrochemical System: Continuum Mechanics Study. *Chemistry of Materials*, **2018**, 30, 6769-6776	9.6	52
196	Engineering Solid Electrolyte Interphase for Pseudocapacitive Anatase TiO2 Anodes in Sodium-Ion Batteries. *Advanced Functional Materials*, **2018**, 28, 1802099	15.6	83
195	Investigation on the interface between LiGePS electrolyte and carbon conductive agents in all-solid-state lithium battery. *Scientific Reports*, **2018**, 8, 8066	4.9	35
194	Na3V(PO4)2: A New Layered-Type Cathode Material with High Water Stability and Power Capability for Na-Ion Batteries. *Chemistry of Materials*, **2018**, 30, 3683-3689	9.6	33
193	Recent Progress in Organic Electrodes for Li and Na Rechargeable Batteries. *Advanced Materials*, **2018**, 30, e1704682	24	246
192	Extremely large, non-oxidized graphene flakes based on spontaneous solvent insertion into graphite intercalation compounds. *Carbon*, **2018**, 139, 309-316	10.4	17
191	Native Defects in Li10GeP2S12 and Their Effect on Lithium Diffusion. *Chemistry of Materials*, **2018**, 30, 4995-5004	9.6	26
190	Lithium-free transition metal monoxides for positive electrodes in lithium-ion batteries. *Nature Energy*, **2017**, 2,	62.3	72
189	Ultraconcentrated Sodium Bis(fluorosulfonyl)imide-Based Electrolytes for High-Performance Sodium Metal Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 3723-3732	9.5	126
188	Glyoxalated polyacrylamide as a covalently attachable and rapidly cross-linkable binder for Si electrode in lithium ion batteries. *Electronic Materials Letters*, **2017**, 13, 136-141	2.9	8
187	TiO2@SnO2@TiO2 triple-shell nanotube anode for high-performance lithium-ion batteries. *Journal of Solid State Electrochemistry*, **2017**, 21, 2365-2371	2.6	14
186	Large-Scale Synthesis of Carbon-Shell-Coated FeP Nanoparticles for Robust Hydrogen Evolution Reaction Electrocatalyst. *Journal of the American Chemical Society*, **2017**, 139, 6669-6674	16.4	369
185	Reaction chemistry in rechargeable Li-O batteries. *Chemical Society Reviews*, **2017**, 46, 2873-2888	58.5	234
184	Multi-electron redox phenazine for ready-to-charge organic batteries. *Green Chemistry*, **2017**, 19, 2980-2985	9.5	84
183	High-efficiency and high-power rechargeable lithium-sulfur dioxide batteries exploiting conventional carbonate-based electrolytes. *Nature Communications*, **2017**, 8, 14989	17.4	31
182	Activating layered LiNi 0.5 Co 0.2 Mn 0.3 O 2 as a host for Mg intercalation in rechargeable Mg batteries. *Materials Research Bulletin*, **2017**, 96, 524-532	5.1	10
181	Exploiting Lithium–Ether Co-Intercalation in Graphite for High-Power Lithium-Ion Batteries. *Advanced Energy Materials*, **2017**, 7, 1700418	21.8	73

180	Tin Sulfide-Based Nanohybrid for High-Performance Anode of Sodium-Ion Batteries. *Small*, **2017**, 13, 1700767	11	25
179	Cu-doped P2-Na0.5Ni0.33Mn0.67O2 encapsulated with MgO as a novel high voltage cathode with enhanced Na-storage properties. *Journal of Materials Chemistry A*, **2017**, 5, 8408-8415	13	82
178	Amorphous Cobalt Phyllosilicate with Layered Crystalline Motifs as Water Oxidation Catalyst. *Advanced Materials*, **2017**, 29, 1606893	24	57
177	Three-dimensionally branched carbon nanowebs as air-cathode for redox-mediated Li-O2 batteries. *Carbon*, **2017**, 118, 114-119	10.4	26
176	A robust design of Ru quantum dot/N-doped holey graphene for efficient Li□2 batteries. *Journal of Materials Chemistry A*, **2017**, 5, 619-631	13	45
175	All-carbon-based cathode for a true high-energy-density Li-O2 battery. *Carbon*, **2017**, 114, 311-316	10.4	24
174	Simple and Effective Gas-Phase Doping for Lithium Metal Protection in Lithium Metal Batteries. *Chemistry of Materials*, **2017**, 29, 9182-9191	9.6	25
173	New 4V-Class and Zero-Strain Cathode Material for Na-Ion Batteries. *Chemistry of Materials*, **2017**, 29, 7826-7832	9.6	46
172	Efficient Method of Designing Stable Layered Cathode Material for Sodium Ion Batteries Using Aluminum Doping. *Journal of Physical Chemistry Letters*, **2017**, 8, 5021-5030	6.4	44
171	Trackable galvanostatic history in phase separation based electrodes for lithium-ion batteries: a mosaic sub-grouping intercalation model. *Energy and Environmental Science*, **2017**, 10, 2352-2364	35.4	5
170	Materials science: Long-lived electrodes for plastic batteries. *Nature*, **2017**, 549, 339-340	50.4	10
169	Progress in the Development of Sodium-Ion Solid Electrolytes. *Small Methods*, **2017**, 1, 1700219	12.8	123
168	Hierarchical Porous Carbonized Co3O4 Inverse Opals via Combined Block Copolymer and Colloid Templating as Bifunctional Electrocatalysts in Li□2 Battery. *Advanced Energy Materials*, **2017**, 7, 1700391	21.8	61
167	Pre-sodiated nickel cobaltite for high-performance sodium-ion capacitors. *Journal of Power Sources*, **2017**, 362, 358-365	8.9	23
166	In Situ Tracking Kinetic Pathways of Li/Na Substitution during Ion-Exchange Synthesis of LiNaVOPOF. *Journal of the American Chemical Society*, **2017**, 139, 12504-12516	16.4	18
165	Using First-Principles Calculations for the Advancement of Materials for Rechargeable Batteries. *Advanced Functional Materials*, **2017**, 27, 1702887	15.6	25
164	Superoxide stability for reversible Na-O electrochemistry. *Scientific Reports*, **2017**, 7, 17635	4.9	28
163	Bifunctional MnO2-Coated Co3O4 Hetero-structured Catalysts for Reversible Li-O2 Batteries. *Chemistry of Materials*, **2017**, 29, 10542-10550	9.6	45

162	NaFeF2 nanocomposite: New type of Na-ion battery cathode material. *Nano Research*, **2017**, 10, 4388-4397	10	11
161	Conditions for Reversible Na Intercalation in Graphite: Theoretical Studies on the Interplay Among Guest Ions, Solvent, and Graphite Host. *Advanced Energy Materials*, **2017**, 7, 1601519	21.8	151
160	Thermal structural stability of a multi-component olivine electrode for lithium ion batteries. *CrystEngComm*, **2016**, 18, 7463-7470	3.3	5
159	Redesign of Li2MP2O7 (M = Fe or Mn) by Tuning the Li Diffusion in Rechargeable Battery Electrodes. *Chemistry of Materials*, **2016**, 28, 6894-6899	9.6	16
158	Recent Progress in Electrode Materials for Sodium-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1600943	21.8	686
157	Tuning the Carbon Crystallinity for Highly Stable Li-O2 Batteries. *Chemistry of Materials*, **2016**, 28, 8160-8169	9.6	40
156	Rational design of redox mediators for advanced Li-O2 batteries. *Nature Energy*, **2016**, 1,	62.3	263
155	Dissolution and ionization of sodium superoxide in sodium-oxygen batteries. *Nature Communications*, **2016**, 7, 10670	17.4	114
154	High-Performance Sodium-Ion Hybrid Supercapacitor Based on Nb2O5@Carbon Core–Shell Nanoparticles and Reduced Graphene Oxide Nanocomposites. *Advanced Functional Materials*, **2016**, 26, 3711-3719	15.6	312
153	Going Beyond Lithium Hybrid Capacitors: Proposing a New High-Performing Sodium Hybrid Capacitor System for Next-Generation Hybrid Vehicles Made with Bio-Inspired Activated Carbon. *Advanced Energy Materials*, **2016**, 6, 1502199	21.8	112
152	Crumpled graphene paper for high power sodium battery anode. *Carbon*, **2016**, 99, 658-664	10.4	68
151	Tailoring a New 4V-Class Cathode Material for Na-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1502147	21.8	52
150	First-principles Study on the Charge Transport Mechanism of Lithium Sulfide (Li2 S) in Lithium-Sulfur Batteries. *Chemistry - an Asian Journal*, **2016**, 11, 1288-92	4.5	22
149	Understanding Origin of Voltage Hysteresis in Conversion Reaction for Na Rechargeable Batteries: The Case of Cobalt Oxides. *Advanced Functional Materials*, **2016**, 26, 5042-5050	15.6	54
148	Capacitors: Going Beyond Lithium Hybrid Capacitors: Proposing a New High-Performing Sodium Hybrid Capacitor System for Next-Generation Hybrid Vehicles Made with Bio-Inspired Activated Carbon (Adv. Energy Mater. 7/2016). *Advanced Energy Materials*, **2016**, 6,	21.8	2
147	Restoration of thermally reduced graphene oxide by atomic-level selenium doping. *NPG Asia Materials*, **2016**, 8, e338-e338	10.3	31
146	High and rapid alkali cation storage in ultramicroporous carbonaceous materials. *Journal of Power Sources*, **2016**, 313, 142-151	8.9	37
145	Porous δ-MnO2 nanoplates derived from MnCO3 nanoplates as highly efficient electrocatalysts toward oxygen evolution reaction. *RSC Advances*, **2016**, 6, 26535-26539	3.7	25

144	Highly stable linear carbonate-containing electrolytes with fluoroethylene carbonate for high-performance cathodes in sodium-ion batteries. *Journal of Power Sources*, **2016**, 320, 49-58	8.9	63
143	Energy storage capabilities of nitrogen-enriched pyropolymer nanoparticles fabricated through rapid pyrolysis. *Journal of Power Sources*, **2016**, 331, 507-514	8.9	8
142	A comparative study of graphite electrodes using the co-intercalation phenomenon for rechargeable Li, Na and K batteries. *Chemical Communications*, **2016**, 52, 12618-12621	5.8	74
141	Highly Stable Iron- and Manganese-Based Cathodes for Long-Lasting Sodium Rechargeable Batteries. *Chemistry of Materials*, **2016**, 28, 7241-7249	9.6	43
140	Functional link between surface low-coordination sites and the electrochemical durability of Pt nanoparticles. *Journal of Power Sources*, **2016**, 334, 52-57	8.9	11
139	Lithium-excess olivine electrode for lithium rechargeable batteries. *Energy and Environmental Science*, **2016**, 9, 2902-2915	35.4	36
138	Factors Affecting the Exfoliation of Graphite Intercalation Compounds for Graphene Synthesis. *Chemistry of Materials*, **2015**, 27, 2067-2073	9.6	50
137	Moisture Barrier Composites Made of Non-Oxidized Graphene Flakes. *Small*, **2015**, 11, 3124-9	11	37
136	Sodium intercalation chemistry in graphite. *Energy and Environmental Science*, **2015**, 8, 2963-2969	35.4	287
135	Ordered-mesoporous Nb2O5/carbon composite as a sodium insertion material. *Nano Energy*, **2015**, 16, 62-70	17.1	104
134	Facile Synthesis of Nb2O5@Carbon Core-Shell Nanocrystals with Controlled Crystalline Structure for High-Power Anodes in Hybrid Supercapacitors. *ACS Nano*, **2015**, 9, 7497-505	16.7	340
133	Ti-substituted tunnel-type Na□MnO□ oxide as a negative electrode for aqueous sodium-ion batteries. *Nature Communications*, **2015**, 6, 6401	17.4	265
132	Ternary metal fluorides as high-energy cathodes with low cycling hysteresis. *Nature Communications*, **2015**, 6, 6668	17.4	104
131	Achieving outstanding Li+-ORR and -OER activities via edge- and corner-embedded bimetallic nanocubes for rechargeable Li□2 batteries. *Nano Energy*, **2015**, 18, 71-80	17.1	25
130	Sodium-Ion Storage in Pyroprotein-Based Carbon Nanoplates. *Advanced Materials*, **2015**, 27, 6914-21	24	107
129	Hollow Nanostructured Metal Silicates with Tunable Properties for Lithium Ion Battery Anodes. *ACS Applied Materials & Interfaces*, **2015**, 7, 25725-32	9.5	56
128	High Energy Organic Cathode for Sodium Rechargeable Batteries. *Chemistry of Materials*, **2015**, 27, 7258-7264	9.6	122
127	Review□lithium-Excess Layered Cathodes for Lithium Rechargeable Batteries. *Journal of the Electrochemical Society*, **2015**, 162, A2447-A2467	3.9	121

126	Coordination tuning of cobalt phosphates towards efficient water oxidation catalyst. *Nature Communications*, **2015**, 6, 8253	17.4	283
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