

# Jang Wook Choi

## List of Publications by Year in descending order

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248  
papers

38,882  
citations

3334

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257  
docs citations

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times ranked

32982  
citing authors

#	ARTICLE	IF	CITATIONS
1	Icephobic Coating through a Self-Formed Superhydrophobic Surface Using a Polymer and Microsized Particles. ACS Applied Materials & Interfaces, 2022, 14, 3334-3343.	8.0	31
2	Host-Guest Interlocked Complex Binder for Silicon-Graphite Composite Electrodes in Lithium Ion Batteries. Advanced Energy Materials, 2022, 12, .	19.5	32
3	Block copolymer binders with hard and soft segments for scalable fabrication of sulfide-based all-solid-state batteries. EcoMat, 2022, 4, .	11.9	7
4	Elastic Binder for High-Performance Sulfide-Based All-Solid-State Batteries. ACS Energy Letters, 2022, 7, 1374-1382.	17.4	27
5	Integrated Ring-Chain Design of a New Fluorinated Ether Solvent for High-Voltage Lithium-Metal Batteries. Angewandte Chemie, 2022, 134, .	2.0	8
6	Integrated Ring-Chain Design of a New Fluorinated Ether Solvent for High-Voltage Lithium-Metal Batteries. Angewandte Chemie - International Edition, 2022, 61, e202115884.	13.8	50
7	Glycerol as a Binder Additive for Low-Resistance Graphite Anodes in Lithium-Ion Batteries. Journal of the Electrochemical Society, 2022, 169, 040558.	2.9	4
8	Fluorinated ether electrolyte with controlled solvation structure for high voltage lithium metal batteries. Nature Communications, 2022, 13, 2575.	12.8	147
9	Corrosion as the origin of limited lifetime of vanadium oxide-based aqueous zinc ion batteries. Nature Communications, 2022, 13, 2371.	12.8	126
10	Dual Functional High Donor Electrolytes for Lithium-Sulfur Batteries under Lithium Nitrate Free and Lean Electrolyte Conditions. ACS Energy Letters, 2022, 7, 2459-2468.	17.4	23
11	High-performance bifunctional electrocatalyst for iron-chromium redox flow batteries. Chemical Engineering Journal, 2021, 421, 127855.	12.7	31
12	Cesium Ion-Mediated Microporous Carbon for CO <sub>2</sub> Capture and Lithium-Ion Storage. ChemNanoMat, 2021, 7, 150-157.	2.8	6
13	High transference number enabled by sulfated zirconia superacid for lithium metal batteries with carbonate electrolytes. Energy and Environmental Science, 2021, 14, 1420-1428.	30.8	23
14	Designing Adaptive Binders for Microenvironment Settings of Silicon Anode Particles. Advanced Materials, 2021, 33, e2007460.	21.0	46
15	Zn <sup>2+</sup> -Imidazole Coordination Crosslinks for Elastic Polymeric Binders in High-Capacity Silicon Electrodes. Advanced Science, 2021, 8, 2004290.	11.2	30
16	Tetradiketone macrocycle for divalent aluminium ion batteries. Nature Communications, 2021, 12, 2386.	12.8	84
17	Stable Solid Electrolyte Interphase Formation Induced by Monoquat-Based Anchoring in Lithium Metal Batteries. ACS Energy Letters, 2021, 6, 1711-1718.	17.4	40
18	Synergistic Composite Coating for Separators in Lithium Metal Batteries. ACS Applied Energy Materials, 2021, 4, 5237-5245.	5.1	13

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19	Atomic-scale unveiling of multiphase evolution during hydrated Zn-ion insertion in vanadium oxide. <i>Nature Communications</i> , 2021, 12, 4599.	12.8	23
20	Issues and Advances in Scaling up Sulfide-Based All-Solid-State Batteries. <i>Accounts of Chemical Research</i> , 2021, 54, 3390-3402.	15.6	97
21	Highly Reversible, Grain-Directed Zinc Deposition in Aqueous Zinc Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100676.	19.5	95
22	Ionic Liquid Functionalized Gel Polymer Electrolytes for Stable Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 22973-22978.	2.0	19
23	Cobalt(II)-Centered Fluorinated Phthalocyanine-Sulfur S <sub>N</sub> Ar Chemistry for Robust Lithium-Sulfur Batteries with Superior Conversion Kinetics. <i>Advanced Functional Materials</i> , 2021, 31, 2106679.	14.9	28
24	Ionic Liquid Functionalized Gel Polymer Electrolytes for Stable Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22791-22796.	13.8	58
25	Electrospun Li-confinable hollow carbon fibers for highly stable Li-metal batteries. <i>Chemical Engineering Journal</i> , 2021, 422, 130017.	12.7	33
26	Lithium-Conducting Self-Assembled Organic Nanotubes. <i>Journal of the American Chemical Society</i> , 2021, 143, 17655-17665.	13.7	7
27	Photochemically driven solid electrolyte interphase for extremely fast-charging lithium-ion batteries. <i>Nature Communications</i> , 2021, 12, 6807.	12.8	32
28	Entropymetry for non-destructive structural analysis of LiCoO <sub>2</sub> cathodes. <i>Energy and Environmental Science</i> , 2020, 13, 286-296.	30.8	19
29	Effect of Binding Affinity of Crystal Water on the Electrochemical Performance of Layered Double Hydroxides. <i>ChemSusChem</i> , 2020, 13, 6546-6551.	6.8	7
30	New High Donor Electrolyte for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2020, 32, e2005022.	21.0	95
31	In Situ Deprotection of Polymeric Binders for Solution-Processible Sulfide-Based All-Solid-State Batteries. <i>Advanced Materials</i> , 2020, 32, e2001702.	21.0	43
32	Switching between Local and Global Aromaticity in a Conjugated Macrocyclic for High-Performance Organic Sodium-Ion Battery Anodes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12958-12964.	13.8	52
33	Fluorinated Aromatic Diluent for High-Performance Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2020, 132, 14979-14986.	2.0	16
34	Fluorinated Aromatic Diluent for High-Performance Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14869-14876.	13.8	130
35	Recent Progress in High Donor Electrolytes for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001456.	19.5	112
36	Opportunities and Reality of Aqueous Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001386.	19.5	92

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37	Highly Elastic Binder for Improved Cyclability of Nickel-Rich Layered Cathode Materials in Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2001069.	19.5	71
38	Directional Change of Interfacial Electric Field by Carbon Insertion in Heterojunction System $\text{TiO}_2/\text{WO}_3$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15239-15245.	8.0	32
39	Pyrazine-Linked 2D Covalent Organic Frameworks as Coating Material for High-Nickel Layered Oxide Cathodes in Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 10597-10606.	8.0	35
40	Preparation of a hydrophobic cerium oxide nanoparticle coating with polymer binder via a facile solution route. <i>Ceramics International</i> , 2020, 46, 12209-12215.	4.8	5
41	Elucidating the Extraordinary Rate and Cycling Performance of Phenanthrenequinone in Aluminum-Complex-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2384-2392.	4.6	25
42	Aqueous zinc ion batteries: focus on zinc metal anodes. <i>Chemical Science</i> , 2020, 11, 2028-2044.	7.4	440
43	Covalent Triazine Frameworks Incorporating Charged Polypyrrole Channels for High-Performance Lithium-Sulfur Batteries. <i>Chemistry of Materials</i> , 2020, 32, 4185-4193.	6.7	55
44	Switching between Local and Global Aromaticity in a Conjugated Macrocyclic for High-Performance Organic Sodium-Ion Battery Anodes. <i>Angewandte Chemie</i> , 2020, 132, 13058-13064.	2.0	12
45	Covalent Triazine Frameworks Incorporating Charged Polypyrrole Channels for High-Performance Lithium-Sulfur Batteries. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3440-3440.	0.0	0
46	Mussel-Inspired Self-Healing Metallopolymers for Silicon Nanoparticle Anodes. <i>ACS Nano</i> , 2019, 13, 8364-8373.	14.6	101
47	Lithium-Salt Mediated Synthesis of a Covalent Triazine Framework for Highly Stable Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2019, 131, 16951-16955.	2.0	26
48	Lithium-Salt Mediated Synthesis of a Covalent Triazine Framework for Highly Stable Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16795-16799.	13.8	72
49	A Pyrene-Poly(acrylic acid)-Polyrotaxane Supramolecular Binder Network for High-Performance Silicon Negative Electrodes. <i>Advanced Materials</i> , 2019, 31, e1905048.	21.0	77
50	Marginal Magnesium Doping for High-Performance Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1902278.	19.5	47
51	Fluorinated Covalent Organic Polymers for High Performance Sulfur Cathodes in Lithium-Sulfur Batteries. <i>Chemistry of Materials</i> , 2019, 31, 7910-7921.	6.7	66
52	Mixed Transition Metal Oxide with Vacancy-Induced Lattice Distortion for Enhanced Catalytic Activity of Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2019, 9, 7099-7108.	11.2	85
53	Highly Elastic Polyrotaxane Binders for Mechanically Stable Lithium Hosts in Lithium-Metal Batteries. <i>Advanced Materials</i> , 2019, 31, e1901645.	21.0	68
54	Crystal water for high performance layered manganese oxide cathodes in aqueous rechargeable zinc batteries. <i>Energy and Environmental Science</i> , 2019, 12, 1999-2009.	30.8	269

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55	Critical role of elemental copper for enhancing conversion kinetics of sulphur cathodes in rechargeable magnesium batteries. <i>Applied Surface Science</i> , 2019, 484, 933-940.	6.1	22
56	Lewis acidity controlled heme catalyst for lithium-oxygen battery. <i>Energy Storage Materials</i> , 2019, 19, 16-23.	18.0	10
57	Atomic-Scale Direct Identification of Surface Variations in Cathode Oxides for Aqueous and Nonaqueous Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 787-794.	6.8	13
58	Hydrated Intercalation for High-Performance Aqueous Zinc Ion Batteries. <i>Advanced Energy Materials</i> , 2019, 9, 1900083.	19.5	243
59	Prospect for Supramolecular Chemistry in High-Energy-Density Rechargeable Batteries. <i>Joule</i> , 2019, 3, 662-682.	24.0	66
60	Cobalt oxide-porous carbon composite derived from CO <sub>2</sub> for the enhanced performance of lithium-ion battery. <i>Journal of CO<sub>2</sub> Utilization</i> , 2019, 30, 28-37.	6.8	26
61	Rechargeable aluminium organic batteries. <i>Nature Energy</i> , 2019, 4, 51-59.	39.5	283
62	Thiol-Ene Click Reaction for Fine Polarity Tuning of Polymeric Binders in Solution-Processed All-Solid-State Batteries. <i>ACS Energy Letters</i> , 2019, 4, 94-101.	17.4	62
63	Rechargeable Aluminum Organic Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
64	Multifunctional Gel Polymer/Microspheres Composite Electrolyte Coated Separator for Lithium Metal Batteries. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
65	Superlattice Formation of Crystal Water in Layered Double Hydroxides for Long-Term and Fast Operation of Aqueous Rechargeable Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1703572.	19.5	17
66	Intercalated Water and Organic Molecules for Electrode Materials of Rechargeable Batteries. <i>Advanced Materials</i> , 2018, 30, e1705851.	21.0	64
67	Exfoliated 2D Lepidocrocite Titanium Oxide Nanosheets for High Sulfur Content Cathodes with Highly Stable Li-S Battery Performance. <i>ACS Energy Letters</i> , 2018, 3, 412-419.	17.4	90
68	The emerging era of supramolecular polymeric binders in silicon anodes. <i>Chemical Society Reviews</i> , 2018, 47, 2145-2164.	38.1	341
69	Solution-Processed Metal Coating to Nonwoven Fabrics for Wearable Rechargeable Batteries. <i>Small</i> , 2018, 14, e1703028.	10.0	14
70	The Synergistic Effect of Cation and Anion of an Ionic Liquid Additive for Lithium Metal Anodes. <i>Advanced Energy Materials</i> , 2018, 8, 1702744.	19.5	137
71	Li <sub>2</sub> O·B <sub>2</sub> O <sub>3</sub> ·GeO <sub>2</sub> glass as a high performance anode material for rechargeable lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6860-6866.	10.3	25
72	Origin of unusual spinel-to-layered phase transformation by crystal water. <i>Chemical Science</i> , 2018, 9, 433-438.	7.4	31

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73	Electrochemical Synthesis of Ammonia from Water and Nitrogen: A Lithium-Mediated Approach Using Lithium-Ion Conducting Glass Ceramics. <i>ChemSusChem</i> , 2018, 11, 120-124.	6.8	71
74	Mussel-Inspired Coating and Adhesion for Rechargeable Batteries: A Review. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 7562-7573.	8.0	84
75	Tuning the Electron Density of Aromatic Solvent for Stable Solid-Electrolyte-Interphase Layer in Carbonate-Based Lithium Metal Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1802365.	19.5	48
76	Effect of Pelletizing and Temperature in Silicon Production Using Magnesiothermic Reduction. <i>Journal of Chemical Engineering of Japan</i> , 2018, 51, 794-799.	0.6	3
77	Li-Intercalation Oxides: Atomic-Scale Observation of LiFePO <sub>4</sub> and LiCoO <sub>2</sub> Dissolution Behavior in Aqueous Solutions ( <i>Adv. Funct. Mater.</i> 45/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870320.	14.9	2
78	Ultrastable Graphene-Encapsulated 3 nm Nanoparticles by In Situ Chemical Vapor Deposition. <i>Advanced Materials</i> , 2018, 30, e1805023.	21.0	24
79	Lithium-Mediated Ammonia Electro-Synthesis: Effect of CsClO <sub>4</sub> on Lithium Plating Efficiency and Ammonia Synthesis. <i>Journal of the Electrochemical Society</i> , 2018, 165, F1027-F1031.	2.9	16
80	Atomic-Scale Observation of LiFePO <sub>4</sub> and LiCoO <sub>2</sub> Dissolution Behavior in Aqueous Solutions. <i>Advanced Functional Materials</i> , 2018, 28, 1804564.	14.9	31
81	A "Sticky"-Mucin-Inspired DNA-Polysaccharide Binder for Silicon and Silicon-Graphite Blended Anodes in Lithium-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1707594.	21.0	96
82	Battery Electrode Materials with Omnivalent Cation Storage for Fast and Charge-Efficient Ion Removal of Asymmetric Capacitive Deionization. <i>Advanced Functional Materials</i> , 2018, 28, 1802665.	14.9	117
83	A Colloidal-Quantum-Dot-Based Self-Charging System via the Near-Infrared Band. <i>Advanced Materials</i> , 2018, 30, e1707224.	21.0	17
84	Supramolecular Chemistries for Polymeric Binders of High Capacity Lithium-Ion Batteries. , 2018, , .		0
85	Ordered Mesoporous Titanium Nitride as a Promising Carbon-Free Cathode for Aprotic Lithium-Oxygen Batteries. <i>ACS Nano</i> , 2017, 11, 1736-1746.	14.6	128
86	Tungsten Disulfide Catalysts Supported on a Carbon Cloth Interlayer for High Performance Li-S Battery. <i>Advanced Energy Materials</i> , 2017, 7, 1602567.	19.5	309
87	EEWS 2016: Progress and Perspectives of Energy Science and Technology. <i>ACS Energy Letters</i> , 2017, 2, 592-594.	17.4	0
88	Delicate Structural Control of SiO <sub>x</sub> -C Composite via High-Speed Spray Pyrolysis for Li-Ion Battery Anodes. <i>Nano Letters</i> , 2017, 17, 1870-1876.	9.1	156
89	Stable Performance of Aluminum-Metal Battery by Incorporating Lithium-Ion Chemistry. <i>ChemElectroChem</i> , 2017, 4, 2345-2351.	3.4	20
90	The Importance of Confined Sulfur Nanodomains and Adjoining Electron Conductive Pathways in Subreaction Regimes of Li-S Batteries. <i>Advanced Energy Materials</i> , 2017, 7, 1700074.	19.5	127

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91	Lithium-Sulfur Batteries: Tungsten Disulfide Catalysts Supported on a Carbon Cloth Interlayer for High Performance Li-S Battery (Adv. Energy Mater. 11/2017). Advanced Energy Materials, 2017, 7, .	19.5	2
92	Lattice Water for the Enhanced Performance of Amorphous Iron Phosphate in Sodium-Ion Batteries. ACS Energy Letters, 2017, 2, 998-1004.	17.4	45
93	Stabilized Octahedral Frameworks in Layered Double Hydroxides by Solid-Solution Mixing of Transition Metals. Advanced Functional Materials, 2017, 27, 1605225.	14.9	58
94	Recent Progress on Spray Pyrolysis for High Performance Electrode Materials in Lithium and Sodium Rechargeable Batteries. Advanced Energy Materials, 2017, 7, 1601578.	19.5	120
95	Low Molecular Weight Spandex as a Promising Polymeric Binder for LiFePO <sub>4</sub> Electrodes. Advanced Energy Materials, 2017, 7, 1602147.	19.5	27
96	Lithium-Sulfur Batteries: The Importance of Confined Sulfur Nanodomains and Adjoining Electron Conductive Pathways in Subreaction Regimes of Li-S Batteries (Adv. Energy Mater. 19/2017). Advanced Energy Materials, 2017, 7, .	19.5	0
97	Perfluoroaryl-Elemental Sulfur S <sub>N</sub> Ar Chemistry in Covalent Triazine Frameworks with High Sulfur Contents for Lithium-Sulfur Batteries. Advanced Functional Materials, 2017, 27, 1703947.	14.9	158
98	Selection of Binder and Solvent for Solution-Processed All-Solid-State Battery. Journal of the Electrochemical Society, 2017, 164, A2075-A2081.	2.9	122
99	Energy-efficient hybrid FCDI-NF desalination process with tunable salt rejection and high water recovery. Journal of Membrane Science, 2017, 541, 580-586.	8.2	37
100	Role of Ordered Ni Atoms in Li-Rich Layered Cathode Materials. Advanced Functional Materials, 2017, 27, 1700982.	14.9	36
101	Unveiling anomalous CO <sub>2</sub> -to-N <sub>2</sub> selectivity of graphene oxide. Physical Chemistry Chemical Physics, 2017, 19, 22743-22748.	2.8	21
102	Highly elastic binders integrating polyrotaxanes for silicon microparticle anodes in lithium ion batteries. Science, 2017, 357, 279-283.	12.6	943
103	Nanoscale Zirconium-Abundant Surface Layers on Lithium- and Manganese-Rich Layered Oxides for High-Rate Lithium-Ion Batteries. Nano Letters, 2017, 17, 7869-7877.	9.1	40
104	Graphene balls for lithium rechargeable batteries with fast charging and high volumetric energy densities. Nature Communications, 2017, 8, 1561.	12.8	151
105	Chemical Blowing Approach for Ultramicroporous Carbon Nitride Frameworks and Their Applications in Gas and Energy Storage. Advanced Functional Materials, 2017, 27, 1604658.	14.9	92
106	Rice husk-originating silicon-graphite composites for advanced lithium ion battery anodes. Nano Convergence, 2017, 4, 24.	12.1	16
107	Defect-Controlled Formation of Triclinic Na <sub>2</sub> CoP <sub>2</sub> O <sub>7</sub> for 4V Sodium-Ion Batteries. Angewandte Chemie, 2016, 128, 6774-6778.	2.0	5
108	Graphene Coating of Silicon Nanoparticles with CO <sub>2</sub> -Enhanced Chemical Vapor Deposition. Small, 2016, 12, 658-667.	10.0	27

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109	Nanomaterials for Energy Conversion and Storage. ChemNanoMat, 2016, 2, 560-561.	2.8	22
110	Elemental Sulfur-Mediated Facile Synthesis of a Covalent Triazine Framework for High-Performance Lithium-Sulfur Batteries. Angewandte Chemie, 2016, 128, 3158-3163.	2.0	96
111	Elemental Sulfur-Mediated Facile Synthesis of a Covalent Triazine Framework for High-Performance Lithium-Sulfur Batteries. Angewandte Chemie - International Edition, 2016, 55, 3106-3111.	13.8	308
112	Sprayable Ultrafast Polydopamine Surface Modifications. Advanced Materials Interfaces, 2016, 3, 1500857.	3.7	99
113	Al Doping for Mitigating the Capacity Fading and Voltage Decay of Layered Li and Mn-Rich Cathodes for Li-Ion Batteries. Advanced Energy Materials, 2016, 6, 1502398.	19.5	360
114	Mussel-Inspired Polydopamine Coating for Enhanced Thermal Stability and Rate Performance of Graphite Anodes in Li-Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 13973-13981.	8.0	43
115	Tuning the Phase Stability of Sodium Metal Pyrophosphates for Synthesis of High Voltage Cathode Materials. Chemistry of Materials, 2016, 28, 6724-6730.	6.7	14
116	Rational Sulfur Cathode Design for Lithium-Sulfur Batteries: Sulfur-Embedded Benzoxazine Polymers. ACS Energy Letters, 2016, 1, 566-572.	17.4	107
117	A stable lithium-rich surface structure for lithium-rich layered cathode materials. Nature Communications, 2016, 7, 13598.	12.8	153
118	Effective Polysulfide Rejection by Dipole-Aligned BaTiO <sub>3</sub> Coated Separator in Lithium-Sulfur Batteries. Advanced Functional Materials, 2016, 26, 7817-7823.	14.9	170
119	On the Mechanism of Crystal Water Insertion during Anomalous Spinel-to-Birnessite Phase Transition. Chemistry of Materials, 2016, 28, 5488-5494.	6.7	55
120	Promise and reality of post-lithium-ion batteries with high energy densities. Nature Reviews Materials, 2016, 1, .	48.7	3,562
121	5L-Scale Magnesio-Milling Reduction of Nanostructured SiO <sub>2</sub> for High Capacity Silicon Anodes in Lithium-Ion Batteries. Nano Letters, 2016, 16, 7261-7269.	9.1	67
122	Enhanced Pseudocapacitance in Multicomponent Transition-Metal Oxides by Local Distortion of Oxygen Octahedra. Angewandte Chemie, 2016, 128, 4026-4030.	2.0	7
123	Enhanced Pseudocapacitance in Multicomponent Transition-Metal Oxides by Local Distortion of Oxygen Octahedra. Angewandte Chemie - International Edition, 2016, 55, 3958-3962.	13.8	21
124	Defect-Controlled Formation of Triclinic Na <sub>2</sub> CoP <sub>2</sub> O <sub>7</sub> for 4V Sodium-Ion Batteries. Angewandte Chemie - International Edition, 2016, 55, 6662-6666.	13.8	76
125	Atomic thin titania nanosheet-coupled reduced graphene oxide 2D heterostructures for enhanced photocatalytic activity and fast lithium storage. Electronic Materials Letters, 2016, 12, 211-218.	2.2	13
126	Flexible Few-Layered Graphene for the Ultrafast Rechargeable Aluminum-Ion Battery. Journal of Physical Chemistry C, 2016, 120, 13384-13389.	3.1	164



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127	Optimal Activation of Porous Carbon for High Performance CO <sub>2</sub> Capture. ChemNanoMat, 2016, 2, 528-533.	2.8	11
128	A Moisture- and Oxygen-Impermeable Separator for Aprotic Li-O <sub>2</sub> Batteries. Advanced Functional Materials, 2016, 26, 1747-1756.	14.9	122
129	Deep eutectic solvents as attractive media for CO <sub>2</sub> capture. Green Chemistry, 2016, 18, 2834-2842.	9.0	209
130	Computational Analysis of Pressure-Dependent Optimal Pore Size for CO <sub>2</sub> Capture with Graphitic Surfaces. Journal of Physical Chemistry C, 2016, 120, 3978-3985.	3.1	15
131	Controlled Prelithiation of Silicon Monoxide for High Performance Lithium-Ion Rechargeable Full Cells. Nano Letters, 2016, 16, 282-288.	9.1	386
132	Direct Observation of an Anomalous Spinel-to-à Layered Phase Transition Mediated by Crystal Water Intercalation. Angewandte Chemie - International Edition, 2015, 54, 15094-15099.	13.8	86
133	Multiphase LiNi <sub>0.33</sub> Mn <sub>0.54</sub> Co <sub>0.13</sub> O <sub>2</sub> Cathode Material with High Capacity Retention for Li-Ion Batteries. ChemElectroChem, 2015, 2, 1957-1965.	3.4	16
134	Poreless Separator and Electrolyte Additive for Lithium-Sulfur Batteries with High Areal Energy Densities. ChemNanoMat, 2015, 1, 240-245.	2.8	45
135	A Half Millimeter Thick Coplanar Flexible Battery with Wireless Recharging Capability. Nano Letters, 2015, 15, 2350-2357.	9.1	78
136	The High Performance of Crystal Water Containing Manganese Birnessite Cathodes for Magnesium Batteries. Nano Letters, 2015, 15, 4071-4079.	9.1	400
137	Combined CO <sub>2</sub> -philicity and Ordered Mesoporosity for Highly Selective CO <sub>2</sub> Capture at High Temperatures. Journal of the American Chemical Society, 2015, 137, 7210-7216.	13.7	130
138	Highly Oriented Carbon Nanotube Sheets for Rechargeable Lithium Oxygen Battery Electrodes. Journal of Nanoscience and Nanotechnology, 2015, 15, 7611-7614.	0.9	11
139	Millipede-inspired structural design principle for high performance polysaccharide binders in silicon anodes. Energy and Environmental Science, 2015, 8, 1224-1230.	30.8	222
140	Nanoporous networks as caging supports for uniform, surfactant-free Co <sub>3</sub> O <sub>4</sub> nanocrystals and their applications in energy storage and conversion. Journal of Materials Chemistry A, 2015, 3, 15489-15497.	10.3	18
141	Important Role of Functional Groups for Sodium Ion Intercalation in Expanded Graphite. Chemistry of Materials, 2015, 27, 5402-5406.	6.7	79
142	Silicon carbide-free graphene growth on silicon for lithium-ion battery with high volumetric energy density. Nature Communications, 2015, 6, 7393.	12.8	449
143	Critical Role of Crystal Water for a Layered Cathode Material in Sodium Ion Batteries. Chemistry of Materials, 2015, 27, 3721-3725.	6.7	174
144	An Electrochemical Cell for Selective Lithium Capture from Seawater. Environmental Science & Technology, 2015, 49, 9415-9422.	10.0	74

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145	Controlled Lithium Dendrite Growth by a Synergistic Effect of Multilayered Graphene Coating and an Electrolyte Additive. <i>Chemistry of Materials</i> , 2015, 27, 2780-2787.	6.7	177
146	Dynamic Cross-Linking of Polymeric Binders Based on Host-Guest Interactions for Silicon Anodes in Lithium Ion Batteries. <i>ACS Nano</i> , 2015, 9, 11317-11324.	14.6	167
147	Anomalous Stretchable Conductivity Using an Engineered Tricot Weave. <i>ACS Nano</i> , 2015, 9, 12214-12223.	14.6	35
148	Self-Terminated Artificial SEI Layer for Nickel-Rich Layered Cathode Material via Mixed Gas Chemical Vapor Deposition. <i>Chemistry of Materials</i> , 2015, 27, 7370-7379.	6.7	61
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