Ji Chen

List of Publications by Year
in descending order

68 papers	14,890 citations	30070 54 h-index	88630 70 g-index
70 all docs	70 docs citations	70 times ranked	15944 citing authors

#	Article	IF	Citations
1	High-energy and low-cost membrane-free chlorine flow battery. Nature Communications, 2022, 13, 1281.	12.8	34
2	An Inorganicâ€Rich Solid Electrolyte Interphase for Advanced Lithiumâ€Metal Batteries in Carbonate Electrolytes. Angewandte Chemie - International Edition, 2021, 60, 3661-3671.	13.8	317
3	An Inorganicâ€Rich Solid Electrolyte Interphase for Advanced Lithiumâ€Metal Batteries in Carbonate Electrolytes. Angewandte Chemie, 2021, 133, 3705-3715.	2.0	29
4	High Interfacial-Energy Interphase Promoting Safe Lithium Metal Batteries. Journal of the American Chemical Society, 2020, 142, 2438-2447.	13.7	195
5	Integrating Multiredox Centers into One Framework for High-Performance Organic Li-Ion Battery Cathodes. ACS Energy Letters, 2020, 5, 224-231.	17.4	59
6	Solidâ€State Electrolyte Design for Lithium Dendrite Suppression. Advanced Materials, 2020, 32, e2002741.	21.0	219
7	Rational Designed Mixed-Conductive Sulfur Cathodes for All-Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2020, 12, 36066-36071.	8.0	12
8	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. Angewandte Chemie - International Edition, 2020, 59, 22194-22201.	13.8	219
9	Lithium Nitrate Regulated Sulfone Electrolytes for Lithium Metal Batteries. Angewandte Chemie, 2020, 132, 22378-22385.	2.0	60
10	Enabling safe aqueous lithium ion open batteries by suppressing oxygen reduction reaction. Nature Communications, 2020, 11, 2638.	12.8	71
11	A 63 <i>m</i> Superconcentrated Aqueous Electrolyte for High-Energy Li-Ion Batteries. ACS Energy Letters, 2020, 5, 968-974.	17.4	197
12	A Highly Reversible, Dendriteâ€Free Lithium Metal Anode Enabled by a Lithiumâ€Fluorideâ€Enriched Interphase. Advanced Materials, 2020, 32, e1906427.	21.0	168
13	Electrolyte design for Li metal-free Li batteries. Materials Today, 2020, 39, 118-126.	14.2	138
14	Electrolyte design for LiF-rich solidâ€“electrolyte interfaces to enable high-performance microsized alloy anodes for batteries. Nature Energy, 2020, 5, 386-397.	39.5	621
15	Structure and Interface Design Enable Stable Li-Rich Cathode. Journal of the American Chemical Society, 2020, 142, 8918-8927.	13.7	151
16	High-Energy-Density Rechargeable Mg Battery Enabled by a Displacement Reaction. Nano Letters, 2019, 19, 6665-6672.	9.1	59
17	Designing In-Situ-Formed Interphases Enables Highly Reversible Cobalt-Free LiNiO2 Cathode for Li-ion and Li-metal Batteries. Joule, 2019, 3, 2550-2564.	24.0	167
18	Aqueous Li-ion battery enabled by halogen conversionâ€“intercalation chemistry in graphite. Nature, 2019, 569, 245-250.	27.8	590

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19	Tuning Anionic Chemistry To Improve Kinetics of Mg Intercalation. Chemistry of Materials, 2019, 31, 3183-3191.	6.7	91
20	Achieving High Energy Density through Increasing the Output Voltage: A Highly Reversible 5.3ÂV Battery. CheM, 2019, 5, 896-912.	11.7	145
21	Highâ€Fluorinated Electrolytes for Liâ€“S Batteries. Advanced Energy Materials, 2019, 9, 1803774.	19.5	227
22	All-temperature batteries enabled by fluorinated electrolytes with non-polar solvents. Nature Energy, 2019, 4, 882-890.	39.5	557
23	Chemical Approach to Ultrastiff, Strong, and Environmentally Stable Graphene Films. ACS Applied Materials & Interfaces, 2018, 10, 5812-5818.	8.0	20
24	Azo compounds as a family of organic electrode materials for alkali-ion batteries. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2004-2009.	7.1	168
25	Highly Fluorinated Interphases Enable High-Voltage Li-Metal Batteries. CheM, 2018, 4, 174-185.	11.7	682
26	Flexible ReS2 nanosheets/N-doped carbon nanofibers-based paper as a universal anode for alkali (Li, Na,) Tj ETQq0 0 0 rgBT /Overlock 10	16.0	280
27	Self-Templated Formation of P2-type K_{0.6}CoO₂ Microspheres for High Reversible Potassium-Ion Batteries. Nano Letters, 2018, 18, 1522-1529.	9.1	167
28	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie, 2018, 130, 7264-7268.	2.0	51
29	A Universal Organic Cathode for Ultrafast Lithium and Multivalent Metal Batteries. Angewandte Chemie - International Edition, 2018, 57, 7146-7150.	13.8	177
30	Intercalation of Bi nanoparticles into graphite results in an ultra-fast and ultra-stable anode material for sodium-ion batteries. Energy and Environmental Science, 2018, 11, 1218-1225.	30.8	212
31	High-Performance All-Solid-State Naâ€“S Battery Enabled by Castingâ€“Annealing Technology. ACS Nano, 2018, 12, 3360-3368.	14.6	102
32	Fluorinated solid electrolyte interphase enables highly reversible solid-state Li metal battery. Science Advances, 2018, 4, eaau9245.	10.3	521
33	Water-Activated VOPO₄ for Magnesium Ion Batteries. Nano Letters, 2018, 18, 6441-6448.	9.1	127
34	Solidâ€State Electrolyte Anchored with a Carboxylated Azo Compound for Allâ€Solidâ€State Lithium Batteries. Angewandte Chemie - International Edition, 2018, 57, 8567-8571.	13.8	103
35	Layered P2â€Type K_{0.65}Fe_{0.5}Mn_{0.5}O₂ Microspheres as Superior Cathode for Highâ€Energy Potassiumâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1800219.	14.9	157
36	Solidâ€State Electrolyte Anchored with a Carboxylated Azo Compound for Allâ€Solidâ€State Lithium Batteries. Angewandte Chemie, 2018, 130, 8703-8707.	2.0	29

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37	Non-flammable electrolyte enables Li-metal batteries with aggressive cathode chemistries. Nature Nanotechnology, 2018, 13, 715-722.	31.5	964
38	Grapheneâ€Based Organic Electrochemical Capacitors for AC Line Filtering. Advanced Energy Materials, 2017, 7, 1700591.	19.5	64
39	Flexible Aqueous Liâ€Ion Battery with High Energy and Power Densities. Advanced Materials, 2017, 29, 1701972.	21.0	175
40	4.0ÂV Aqueous Li-Ion Batteries. Joule, 2017, 1, 122-132.	24.0	441
41	An ultrasensitive moisture driven actuator based on small flakes of graphene oxide. Sensors and Actuators B: Chemical, 2017, 242, 418-422.	7.8	36
42	Highly Conductive Stretchable Electrodes Prepared by In Situ Reduction of Wavy Graphene Oxide Films Coated on Elastic Tapes. Advanced Electronic Materials, 2016, 2, 1600022.	5.1	40
43	An ultrahigh-rate electrochemical capacitor based on solution-processed highly conductive PEDOT:PSS films for AC line-filtering. Energy and Environmental Science, 2016, 9, 2005-2010.	30.8	142
44	Synthesis of graphene oxide sheets with controlled sizes from sieved graphite flakes. Carbon, 2016, 110, 34-40.	10.3	77
45	Highly Exfoliated Reduced Graphite Oxide Powders as Efficient Lubricant Oil Additives. Advanced Materials Interfaces, 2016, 3, 1600700.	3.7	59
46	Reduced Graphene Oxide Membranes for Ultrafast Organic Solvent Nanofiltration. Advanced Materials, 2016, 28, 8669-8674.	21.0	349
47	High-Performance Strain Sensors with Fish-Scale-Like Graphene-Sensing Layers for Full-Range Detection of Human Motions. ACS Nano, 2016, 10, 7901-7906.	14.6	500
48	A high-performance current collector-free flexible in-plane micro-supercapacitor based on a highly conductive reduced graphene oxide film. Journal of Materials Chemistry A, 2016, 4, 16213-16218.	10.3	86
49	Nitrogen-Doped Holey Graphene Film-Based Ultrafast Electrochemical Capacitors. ACS Applied Materials & Interfaces, 2016, 8, 20741-20747.	8.0	79
50	Oriented Graphene Foam with Tunable Wettability by Electrocapillary for Switchable and Ultraâ€Fast Imbibition. Advanced Materials Interfaces, 2016, 3, 1600774.	3.7	6
51	Baseâ€Induced Liquid Crystals of Graphene Oxide for Preparing Elastic Graphene Foams with Longâ€Range Ordered Microstructures. Advanced Materials, 2016, 28, 1623-1629.	21.0	193
52	Nitrogen and Sulfur Codoped Graphite Foam as a Selfâ€Supported Metalâ€Free Electrocatalytic Electrode for Water Oxidation. Advanced Energy Materials, 2016, 6, 1501492.	19.5	153
53	Mildly reduced less defective graphene oxide/sulfur/carbon nanotube composite films for high-performance lithiumâ€“sulfur batteries. Physical Chemistry Chemical Physics, 2016, 18, 11104-11110.	2.8	30
54	Water-enhanced oxidation of graphite to graphene oxide with controlled species of oxygenated groups. Chemical Science, 2016, 7, 1874-1881.	7.4	251

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55	High-yield production of highly conductive graphene via reversible covalent chemistry. Chemical Communications, 2015, 51, 2806-2809.	4.1	25
56	Size Fractionation of Graphene Oxide Sheets via Filtration through Trackâ€Etched Membranes. Advanced Materials, 2015, 27, 3654-3660.	21.0	149
57	â€œPotteryâ€•of Porous Graphene Materials. Advanced Electronic Materials, 2015, 1, 1500004.	5.1	15
58	High-Quality Graphene Ribbons Prepared from Graphene Oxide Hydrogels and Their Application for Strain Sensors. ACS Nano, 2015, 9, 12320-12326.	14.6	148
59	High-yield preparation of graphene oxide from small graphite flakes via an improved Hummers method with a simple purification process. Carbon, 2015, 81, 826-834.	10.3	443
60	Highly Compressible Macroporous Graphene Monoliths via an Improved Hydrothermal Process. Advanced Materials, 2014, 26, 4789-4793.	21.0	354
61	Ultratough, Ultrastrong, and Highly Conductive Graphene Films with Arbitrary Sizes. Advanced Materials, 2014, 26, 7588-7592.	21.0	182
62	Nanoporous graphene materials. Materials Today, 2014, 17, 77-85.	14.2	170
63	Electrochemical Biosensing Based on Graphene Modified Electrodes. Acta Chimica Sinica, 2014, 72, 319.	1.4	10
64	An improved Hummers method for eco-friendly synthesis of graphene oxide. Carbon, 2013, 64, 225-229.	10.3	1,785
65	Composite organogels of graphene and activated carbon for electrochemical capacitors. Journal of Materials Chemistry A, 2013, 1, 9196.	10.3	60
66	Graphene Materials for Electrochemical Capacitors. Journal of Physical Chemistry Letters, 2013, 4, 1244-1253.	4.6	288
67	Graphene Hydrogels Deposited in Nickel Foams for Highâ€Rate Electrochemical Capacitors. Advanced Materials, 2012, 24, 4569-4573.	21.0	409
68	Electrochemical detection of dioxygen and hydrogen peroxide by hemin immobilized on chemically converted graphene. Journal of Electroanalytical Chemistry, 2011, 657, 34-38.	3.8	52