Ying Zhang

List of Publications by Year
in descending order

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41 papers	7,332 citations	126708 33 h-index	276539 41 g-index
41 all docs	41 docs citations	41 times ranked	8423 citing authors

#	Article	IF	Citations
1	All-wood, low tortuosity, aqueous, biodegradable supercapacitors with ultra-high capacitance. Energy and Environmental Science, 2017, 10, 538-545.	15.6	602
2	Protected Lithiumâ€Metal Anodes in Batteries: From Liquid to Solid. Advanced Materials, 2017, 29, 1701169.	11.1	596
3	Reducing Interfacial Resistance between Garnetâ€Structured Solidâ€State Electrolyte and Liâ€Metal Anode by a Germanium Layer. Advanced Materials, 2017, 29, 1606042.	11.1	512
4	Treeâ€Inspired Design for Highâ€Efficiency Water Extraction. Advanced Materials, 2017, 29, 1704107.	11.1	494
5	High-capacity, low-tortuosity, and channel-guided lithium metal anode. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3584-3589.	3.3	412
6	Towards better Li metal anodes: Challenges and strategies. Materials Today, 2020, 33, 56-74.	8.3	404
7	Woodâ€Based Nanotechnologies toward Sustainability. Advanced Materials, 2018, 30, 1703453.	11.1	359
8	Ultrathin Surface Coating Enables the Stable Sodium Metal Anode. Advanced Energy Materials, 2017, 7, 1601526.	10.2	312
9	3Dâ€Printed Allâ€Fiber Liâ€Ion Battery toward Wearable Energy Storage. Advanced Functional Materials, 2017, 27, 1703140.	7.8	270
10	Highâ€Performance Solar Steam Device with Layered Channels: Artificial Tree with a Reversed Design. Advanced Energy Materials, 2018, 8, 1701616.	10.2	255
11	Encapsulation of Metallic Na in an Electrically Conductive Host with Porous Channels as a Highly Stable Na Metal Anode. Nano Letters, 2017, 17, 3792-3797.	4.5	243
12	Extrusionâ€Based 3D Printing of Hierarchically Porous Advanced Battery Electrodes. Advanced Materials, 2018, 30, e1705651.	11.1	241
13	Investigation of the intercalation of polyvalent cations (Mg2+, Zn2+) into Î»-MnO2 for rechargeable aqueous battery. Electrochimica Acta, 2014, 116, 404-412.	2.6	239
14	Transient Behavior of the Metal Interface in Lithium Metalâ€“Garnet Batteries. Angewandte Chemie - International Edition, 2017, 56, 14942-14947.	7.2	227
15	Highly Conductive, Lightweight, Lowâ€Tortuosity Carbon Frameworks as Ultrathick 3D Current Collectors. Advanced Energy Materials, 2017, 7, 1700595.	10.2	210
16	A carbon-based 3D current collector with surface protection for Li metal anode. Nano Research, 2017, 10, 1356-1365.	5.8	200
17	3D Wettable Framework for Dendriteâ€Free Alkali Metal Anodes. Advanced Energy Materials, 2018, 8, 1800635.	10.2	196
18	Universal Soldering of Lithium and Sodium Alloys on Various Substrates for Batteries. Advanced Energy Materials, 2018, 8, 1701963.	10.2	186

#	Article	IF	Citations
19	Hierarchically Porous, Ultrathick, â€œBreathableâ€•Woodâ€Derived Cathode for Lithiumâ€Oxygen Batteries. Advanced Energy Materials, 2018, 8, 1701203.	10.2	161
20	Superflexible Wood. ACS Applied Materials & Interfaces, 2017, 9, 23520-23527.	4.0	141
21	Induction of Planar Sodium Growth on MXene (Ti₃C₂T_x)-Modified Carbon Cloth Hosts for Flexible Sodium Metal Anodes. ACS Nano, 2020, 14, 8744-8753.	7.3	125
22	Lithiophilic Three-Dimensional Porous Ti₃C₂T_x-rGO Membrane as a Stable Scaffold for Safe Alkali Metal (Li or Na) Anodes. ACS Nano, 2019, 13, 14319-14328.	7.3	123
23	Textile Inspired Lithiumâ€“Oxygen Battery Cathode with Decoupled Oxygen and Electrolyte Pathways. Advanced Materials, 2018, 30, 1704907.	11.1	92
24	An Outlook on Low-Volume-Change Lithium Metal Anodes for Long-Life Batteries. ACS Central Science, 2020, 6, 661-671.	5.3	83
25	Garnet/polymer hybrid ion-conducting protective layer for stable lithium metal anode. Nano Research, 2017, 10, 4256-4265.	5.8	76
26	Flexible nanocellulose enhanced Li+ conducting membrane for solid polymer electrolyte. Energy Storage Materials, 2020, 28, 293-299.	9.5	70
27	Sr-doped Li4Ti5O12 as the anode material for lithium-ion batteries. Solid State Ionics, 2013, 232, 13-18.	1.3	63
28	Highly Conductive, Light Weight, Robust, Corrosionâ€Resistant, Scalable, Allâ€Fiber Based Current Collectors for Aqueous Acidic Batteries. Advanced Energy Materials, 2018, 8, 1702615.	10.2	63
29	A 3D Lithium/Carbon Fiber Anode with Sustained Electrolyte Contact for Solidâ€State Batteries. Advanced Energy Materials, 2020, 10, 1903325.	10.2	61
30	Auâ€“Pd nanoparticles supported on carbon fiber cloth as the electrocatalyst for H2O2 electroreduction in acid medium. Journal of Power Sources, 2013, 233, 252-258.	4.0	49
31	An aqueous capacitor battery hybrid device based on Na-ion insertion-deinsertion in Î» -MnO 2 positive electrode. Electrochimica Acta, 2014, 148, 237-243.	2.6	45
32	Dendritic palladium decorated with gold by potential pulse electrodeposition: Enhanced electrocatalytic activity for H2O2 electroreduction and electrooxidation. Electrochimica Acta, 2013, 99, 54-61.	2.6	43
33	Preparation of Au nanodendrites supported on carbon fiber cloth and its catalytic performance to H2O2 electroreduction and electrooxidation. RSC Advances, 2013, 3, 5483.	1.7	34
34	Highly porous Fe3O4â€“Fe nanowires grown on C/TiC nanofiber arrays as the high performance anode of lithium-ion batteries. Journal of Power Sources, 2014, 258, 260-265.	4.0	31
35	Preparation of M1/3Ni1/3Mn2/3O2 (M=Mg or Zn) and its performance as the cathode material of aqueous divalent cations battery. Electrochimica Acta, 2015, 182, 971-978.	2.6	25
36	Electrodeposition of palladium on carbon nanotubes modified nickel foam as an efficient electrocatalyst towards hydrogen peroxide reduction. Journal of Power Sources, 2015, 298, 38-45.	4.0	22

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37	Three-dimensional lamination-like P2-Na 2/3 Ni 1/3 Mn 2/3 O 2 assembled with two-dimensional ultrathin nanosheets as the cathode material of an aqueous capacitor battery. Electrochimica Acta, 2014, 148, 195-202.	2.6	21
38	Necklaceâ€Like Silicon Carbide and Carbon Nanocomposites Formed by Steady Joule Heating. Small Methods, 2018, 2, 1700371.	4.6	17
39	High rate performance of the composites of Li4Ti5O12â€“Ketjen Black and Li4Ti5O12â€“Ketjen Blackâ€“multi-walled carbon nanotubes for Li-ion batteries. Solid State Ionics, 2013, 233, 1-6.	1.3	16
40	Transient Behavior of the Metal Interface in Lithium Metalâ€“Garnet Batteries. Angewandte Chemie, 2017, 129, 15138-15143.	1.6	12
41	Synthesis and Electrochemical Performance of Li₄Ti₅O₁₂/CMK-3 Nanocomposite Negative Electrode Materials for Lithium-Ion Batteries. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2013, 29, 1247-1252.	2.2	1