Jiantie Xu

List of Publications by Year
in descending order

66 papers	7,197 citations	101384 36 h-index	110170 64 g-index
67 all docs	67 docs citations	67 times ranked	11370 citing authors

#	Article	IF	Citations
1	Highâ€Performance Sodium Ion Batteries Based on a 3D Anode from Nitrogenâ€Doped Graphene Foams. Advanced Materials, 2015, 27, 2042-2048.	11.1	812
2	Metalâ€Free Carbon Materials for CO₂ Electrochemical Reduction. Advanced Materials, 2017, 29, 1701784.	11.1	558
3	Nitrogen Enriched Porous Carbon Spheres: Attractive Materials for Supercapacitor Electrodes and CO₂ Adsorption. Chemistry of Materials, 2014, 26, 2820-2828.	3.2	539
4	Defects in metal triiodide perovskite materials towards high-performance solar cells: origin, impact, characterization, and engineering. Chemical Society Reviews, 2018, 47, 4581-4610.	18.7	455
5	Recent Progress in Graphite Intercalation Compounds for Rechargeable Metal (Li, Na, K, Al)â€Ion Batteries. Advanced Science, 2017, 4, 1700146.	5.6	390
6	Atomic Layerâ€byâ€Layer Co₃O₄/Graphene Composite for High Performance Lithiumâ€Ion Batteries. Advanced Energy Materials, 2016, 6, 1501835.	10.2	316
7	2D Frameworks of C₂N and C₃N as New Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2017, 29, 1702007.	11.1	282
8	Efficiently photo-charging lithium-ion battery by perovskite solar cell. Nature Communications, 2015, 6, 8103.	5.8	261
9	Highly Rechargeable Lithiumâ€CO₂ Batteries with a Boronâ€and Nitrogenâ€Codoped Holeyâ€Graphene Cathode. Angewandte Chemie - International Edition, 2017, 56, 6970-6974.	7.2	260
10	Recent Progress in the Design of Advanced Cathode Materials and Battery Models for Highâ€Performance Lithiumâ€X (X = O₂, S, Se, Te, I₂, Br₂) Batteries. Advanced Materials, 2017, 29, 1606454.	11.1	240
11	Cathode materials for next generation lithium ion batteries. Nano Energy, 2013, 2, 439-442.	8.2	221
12	Sulfurâ€“Graphene Nanostructured Cathodes <i>via</i> Ball-Milling for High-Performance Lithiumâ€“Sulfur Batteries. ACS Nano, 2014, 8, 10920-10930.	7.3	213
13	The effect of different binders on electrochemical properties of LiNi1/3Mn1/3Co1/3O2 cathode material in lithium ion batteries. Journal of Power Sources, 2013, 225, 172-178.	4.0	202
14	Edgeâ€Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dyeâ€Sensitized Solar Cells and Lithium Ion Batteries. Advanced Functional Materials, 2015, 25, 1170-1179.	7.8	174
15	Research progress on vanadium-based cathode materials for sodium ion batteries. Journal of Materials Chemistry A, 2018, 6, 8815-8838.	5.2	161
16	Edgeâ€Selectively Halogenated Graphene Nanoplatelets (XGnPs, X = Cl, Br, or I) Prepared by Ballâ€Milling and Used as Anode Materials for Lithiumâ€Ion Batteries. Advanced Materials, 2014, 26, 7317-7323.	11.1	160
17	Three-dimensional carbon frameworks enabling MoS2 as anode for dual ion batteries with superior sodium storage properties. Energy Storage Materials, 2018, 15, 22-30.	9.5	125
18	Nitrogen-Doped Holey Graphene for High-Performance Rechargeable Liâ€“O₂ Batteries. ACS Energy Letters, 2016, 1, 260-265.	8.8	116

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19	Nitrogenâ€Doped Holey Graphene as an Anode for Lithiumâ€Ion Batteries with High Volumetric Energy Density and Long Cycle Life. Small, 2015, 11, 6179-6185.	5.2	115
20	Antimony Nanorod Encapsulated in Cross-Linked Carbon for High-Performance Sodium Ion Battery Anodes. Nano Letters, 2019, 19, 538-544.	4.5	113
21	Growth of NiCo₂O₄@MnMoO₄ Nanocolumn Arrays with Superior Pseudocapacitor Properties. ACS Applied Materials & Interfaces, 2016, 8, 8568-8575.	4.0	100
22	Atomically Thin Transitionâ€Metal Dichalcogenides for Electrocatalysis and Energy Storage. Small Methods, 2017, 1, 1700156.	4.6	98
23	Highly Efficient High-Pressure Homogenization Approach for Scalable Production of High-Quality Graphene Sheets and Sandwich-Structured Î±-Fe₂O₃/Graphene Hybrids for High-Performance Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2017, 9, 11025-11034.	4.0	75
24	Improved emissions inventory and VOCs speciation for industrial OFP estimation in China. Science of the Total Environment, 2020, 745, 140838.	3.9	72
25	Electrospinning of crystalline MoO₃@C nanofibers for high-rate lithium storage. Journal of Materials Chemistry A, 2015, 3, 3257-3260.	5.2	69
26	Chevrel Phase Mo₆T₈ (T = S, Se) as Electrodes for Advanced Energy Storage. Small, 2017, 13, 1701441.	5.2	61
27	Layered monodiphosphate Li9V3(P2O7)3(PO4)2: A novel cathode material for lithium-ion batteries. Electrochimica Acta, 2011, 56, 2201-2205.	2.6	58
28	Manipulating the Architecture of Atomically Thin Transition Metal (Hydr)oxides for Enhanced Oxygen Evolution Catalysis. ACS Nano, 2018, 12, 1878-1886.	7.3	57
29	Growth of MoS₂@C nanobowls as a lithium-ion battery anode material. RSC Advances, 2015, 5, 92506-92514.	1.7	54
30	Layered P2â€Na_{0.66}Fe_{0.5}Mn_{0.5}O₂ Cathode Material for Rechargeable Sodiumâ€Ion Batteries. ChemElectroChem, 2014, 1, 371-374.	1.7	52
31	Three-dimensional-network Li3V2(PO4)3/C composite as high rate lithium ion battery cathode material and its compatibility with ionic liquid electrolytes. Journal of Power Sources, 2014, 246, 124-131.	4.0	48
32	Amorphous carbon layer contributing Li storage capacity to Nb₂O₅@C nanosheets. RSC Advances, 2015, 5, 36104-36107.	1.7	44
33	Hierarchical MnO2/rGO hybrid nanosheets as an efficient electrocatalyst for the oxygen reduction reaction. International Journal of Hydrogen Energy, 2016, 41, 5260-5268.	3.8	44
34	Edge-thionic acid-functionalized graphene nanoplatelets as anode materials for high-rate lithium ion batteries. Nano Energy, 2019, 62, 419-425.	8.2	44
35	Understanding of the capacity contribution of carbon in phosphorus-carbon composites for high-performance anodes in lithium ion batteries. Nano Research, 2017, 10, 1268-1281.	5.8	43
36	Synthesis, Structure, Electronic, Ionic, and Magnetic Properties of Li₉V₃(P₂O₇)₃(PO₄)₂ Cathode Material for Li-Ion Batteries. Journal of Physical Chemistry C, 2011, 115, 8422-8429.	1.5	41

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37	3D Macroporous Mo<i>_x</i>C@Nâ€C with Incorporated Mo Vacancies as Anodes for Highâ€Performance Lithiumâ€Ion Batteries. Small Methods, 2018, 2, 1800040.	4.6	36
38	How Cobalt and Iron Doping Determine the Oxygen Evolution Electrocatalytic Activity of NiOOH. Cell Reports Physical Science, 2020, 1, 100077.	2.8	35
39	Co-N-C in porous carbon with enhanced lithium ion storage properties. Chemical Engineering Journal, 2020, 389, 124377.	6.6	34
40	General Preparation of Three-Dimensional Porous Metal Oxide Foams Coated with Nitrogen-Doped Carbon for Enhanced Lithium Storage. ACS Applied Materials & Interfaces, 2016, 8, 17402-17408.	4.0	33
41	Conjugated Polymers Based on Thiazole Flanked Naphthalene Diimide for Unipolar n-Type Organic Field-Effect Transistors. Chemistry of Materials, 2018, 30, 8343-8351.	3.2	30
42	Large-scale production of holey graphite as high-rate anode for lithium ion batteries. Journal of Energy Chemistry, 2020, 48, 122-127.	7.1	30
43	A novel approach to recovery of lithium element and production of holey graphene based on the lithiated graphite of spent lithium ion batteries. Chemical Engineering Journal, 2022, 436, 135011.	6.6	29
44	Synthesis of three-dimensional honeycomb-like Fe3N@NC composites with enhanced lithium storage properties. Carbon, 2022, 192, 162-169.	5.4	26
45	A hybrid electrolyte energy storage device with high energy and long life using lithium anode and MnO2 nanoflake cathode. Electrochemistry Communications, 2013, 31, 35-38.	2.3	24
46	Highly Rechargeable Lithiumâ€CO₂ Batteries with a Boronâ€•and Nitrogenâ€Codoped Holeyâ€Graphene Cathode. Angewandte Chemie, 2017, 129, 7074-7078.	1.6	24
47	Self-driven hematite-based photoelectrochemical water splitting cells with three-dimensional nanobowl heterojunction and high-photovoltage perovskite solar cells. Materials Today Energy, 2017, 6, 128-135.	2.5	23
48	A novel approach to facile synthesis of boron and nitrogen co-doped graphene and its application in lithium oxygen batteries. Energy Storage Materials, 2021, 41, 61-68.	9.5	23
49	Preparation and electrochemical properties of Cr-doped Li9V3(P2O7)3(PO4)2 as cathode materials for lithium-ion batteries. Electrochimica Acta, 2011, 56, 6562-6567.	2.6	18
50	A novel approach for synthesis of expanded graphite and its enhanced lithium storage properties. Journal of Energy Chemistry, 2021, 59, 292-298.	7.1	17
51	Preparation of a Sb/Cu2Sb/C composite as an anode material for lithium-ion batteries. RSC Advances, 2016, 6, 78959-78962.	1.7	16
52	Highly durable aqueous Zn ion batteries based on a Zn anode coated by three-dimensional cross-linked and branch-liked bismuth-PVDF layer. Journal of Colloid and Interface Science, 2022, 617, 422-429.	5.0	16
53	Metal (MÂ= Ru, Pd and Co) embedded in C2N with enhanced lithium storage properties. Materials Today Energy, 2019, 14, 100359.	2.5	13
54	Study on Vanadium Substitution to Iron in Li2FeP2O7 as Cathode Material for Lithium-ion Batteries. Electrochimica Acta, 2014, 141, 195-202.	2.6	12

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55	Highly boron-doped holey graphene for lithium oxygen batteries with enhanced electrochemical performance. Carbon, 2022, 189, 404-412.	5.4	12
56	Lithium rich and deficient effects in LixCoPO4 (x=0.90, 0.95, 1, 1.05) as cathode material for lithium-ion batteries. Electrochimica Acta, 2013, 88, 865-870.	2.6	10
57	Highly rechargeable lithium oxygen batteries cathode based on boron and nitrogen co-doped holey graphene. Chemical Engineering Journal, 2022, 428, 131025.	6.6	9
58	Expanded graphite confined SnO2 as anode for lithium ion batteries with low average working potential and enhanced rate capability. Journal of Materials Science and Technology, 2022, 107, 165-171.	5.6	9
59	Oneâ€Pot Purification and Iodination of Waste Kish Graphite into Highâ€Quality Electrocatalyst. Particle and Particle Systems Characterization, 2017, 34, 1600426.	1.2	8
60	Preparation of Li9Cr3(P2O7)3(PO4)2 as cathode material for lithium ion batteries through solâ€“gel method. Journal of Sol-Gel Science and Technology, 2011, 59, 521-524.	1.1	7
61	High performance lithium ion electrolyte based on a three-dimensional holey graphene framework cross-linked with a polymer. Journal of Materials Chemistry A, 0, , .	5.2	7
62	From spent lithium-ion batteries to high performance sodium-ion batteries: a case study. Materials Today Energy, 2022, 26, 100997.	2.5	7
63	Fluorine: Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries (Adv. Funct. Mater. 8/2015). Advanced Functional Materials, 2015, 25, 1328-1328.	7.8	6
64	Edgeâ€NF_{<i>x</i>} (<i>x</i>=1 or 2) Protected Graphitic Nanoplatelets as a Stable Lithium Storage Material. Batteries and Supercaps, 2020, 3, 928-935.	2.4	6
65	Iron encased organic networks with enhanced lithium storage properties. Energy Storage, 2020, 2, e114.	2.3	4
66	Smoothing the Surface and Improving the Electrochemical Properties of NaxMnO2 by a Wet Chemical Method. Nanomaterials, 2020, 10, 246.	1.9	0