Jiantie Xu

List of Publications by Citations

65 papers	5,579 citations	34 h-index	67 g-index
67 ext. papers	6,409 ext. citations	12 avg, IF	6.03 L-index

#	Paper	IF	Citations
65	High-performance sodium ion batteries based on a 3D anode from nitrogen-doped graphene foams. *Advanced Materials*, **2015**, 27, 2042-8	24	695
64	Nitrogen Enriched Porous Carbon Spheres: Attractive Materials for Supercapacitor Electrodes and CO2 Adsorption. *Chemistry of Materials*, **2014**, 26, 2820-2828	9.6	480
63	Metal-Free Carbon Materials for CO Electrochemical Reduction. *Advanced Materials*, **2017**, 29, 1701784	24	385
62	Defects in metal triiodide perovskite materials towards high-performance solar cells: origin, impact, characterization, and engineering. *Chemical Society Reviews*, **2018**, 47, 4581-4610	58.5	300
61	Recent Progress in Graphite Intercalation Compounds for Rechargeable Metal (Li, Na, K, Al)-Ion Batteries. *Advanced Science*, **2017**, 4, 1700146	13.6	276
60	Atomic Layer-by-Layer Co3O4/Graphene Composite for High Performance Lithium-Ion Batteries. *Advanced Energy Materials*, **2016**, 6, 1501835	21.8	275
59	Efficiently photo-charging lithium-ion battery by perovskite solar cell. *Nature Communications*, **2015**, 6, 8103	17.4	208
58	Highly Rechargeable Lithium-CO Batteries with a Boron- and Nitrogen-Codoped Holey-Graphene Cathode. *Angewandte Chemie - International Edition*, **2017**, 56, 6970-6974	16.4	198
57	2D Frameworks of C N and C N as New Anode Materials for Lithium-Ion Batteries. *Advanced Materials*, **2017**, 29, 1702007	24	196
56	Recent Progress in the Design of Advanced Cathode Materials and Battery Models for High-Performance Lithium-X (X = O , S, Se, Te, I , Br) Batteries. *Advanced Materials*, **2017**, 29, 1606454	24	194
55	Sulfur-graphene nanostructured cathodes via ball-milling for high-performance lithium-sulfur batteries. *ACS Nano*, **2014**, 8, 10920-30	16.7	192
54	Cathode materials for next generation lithium ion batteries. *Nano Energy*, **2013**, 2, 439-442	17.1	191
53	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	8.9	167
52	Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries. *Advanced Functional Materials*, **2015**, 25, 1170-1179	15.6	146
51	Edge-selectively halogenated graphene nanoplatelets (XGnPs, X = Cl, Br, or I) prepared by ball-milling and used as anode materials for lithium-ion batteries. *Advanced Materials*, **2014**, 26, 7317-23	24	133
50	Research progress on vanadium-based cathode materials for sodium ion batteries. *Journal of Materials Chemistry A*, **2018**, 6, 8815-8838	13	121
49	Three-dimensional carbon frameworks enabling MoS2 as anode for dual ion batteries with superior sodium storage properties. *Energy Storage Materials*, **2018**, 15, 22-30	19.4	97

48	Nitrogen-Doped Holey Graphene for High-Performance Rechargeable Li□2 Batteries. *ACS Energy Letters*, **2016**, 1, 260-265	20.1	95
47	Growth of NiCo2O4@MnMoO4 Nanocolumn Arrays with Superior Pseudocapacitor Properties. *ACS Applied Materials & Interfaces*, **2016**, 8, 8568-75	9.5	91
46	Nitrogen-Doped Holey Graphene as an Anode for Lithium-Ion Batteries with High Volumetric Energy Density and Long Cycle Life. *Small*, **2015**, 11, 6179-85	11	89
45	Atomically Thin Transition-Metal Dichalcogenides for Electrocatalysis and Energy Storage. *Small Methods*, **2017**, 1, 1700156	12.8	82
44	Antimony Nanorod Encapsulated in Cross-Linked Carbon for High-Performance Sodium Ion Battery Anodes. *Nano Letters*, **2019**, 19, 538-544	11.5	81
43	Electrospinning of crystalline MoO3@C nanofibers for high-rate lithium storage. *Journal of Materials Chemistry A*, **2015**, 3, 3257-3260	13	61
42	Layered monodiphosphate Li9V3(P2O7)3(PO4)2: A novel cathode material for lithium-ion batteries. *Electrochimica Acta*, **2011**, 56, 2201-2205	6.7	52
41	Highly Efficient High-Pressure Homogenization Approach for Scalable Production of High-Quality Graphene Sheets and Sandwich-Structured □FeO/Graphene Hybrids for High-Performance Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 11025-11034	9.5	50
40	Layered P2-Na0.66Fe0.5Mn0.5O2 Cathode Material for Rechargeable Sodium-Ion Batteries. *ChemElectroChem*, **2014**, 1, 371-374	4.3	50
39	Growth of MoS2@C nanobowls as a lithium-ion battery anode material. *RSC Advances*, **2015**, 5, 92506-92514	3.7	47
38	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	8.9	45
37	Manipulating the Architecture of Atomically Thin Transition Metal (Hydr)oxides for Enhanced Oxygen Evolution Catalysis. *ACS Nano*, **2018**, 12, 1878-1886	16.7	43
36	Amorphous carbon layer contributing Li storage capacity to Nb2O5@C nanosheets. *RSC Advances*, **2015**, 5, 36104-36107	3.7	43
35	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	3.8	40
34	Hierarchical MnO2/rGO hybrid nanosheets as an efficient electrocatalyst for the oxygen reduction reaction. *International Journal of Hydrogen Energy*, **2016**, 41, 5260-5268	6.7	38
33	Chevrel Phase Mo T (T = S, Se) as Electrodes for Advanced Energy Storage. *Small*, **2017**, 13, 1701441	11	37
32	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	10	36
31	General Preparation of Three-Dimensional Porous Metal Oxide Foams Coated with Nitrogen-Doped Carbon for Enhanced Lithium Storage. *ACS Applied Materials & Interfaces*, **2016**, 8, 17402-8	9.5	32

30	Improved emissions inventory and VOCs speciation for industrial OFP estimation in China. *Science of the Total Environment*, **2020**, 745, 140838	10.2	29
29	3D Macroporous MoxC@N-C with Incorporated Mo Vacancies as Anodes for High-Performance Lithium-Ion Batteries. *Small Methods*, **2018**, 2, 1800040	12.8	26
28	Conjugated Polymers Based on Thiazole Flanked Naphthalene Diimide for Unipolar n-Type Organic Field-Effect Transistors. *Chemistry of Materials*, **2018**, 30, 8343-8351	9.6	24
27	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	5.1	23
26	Large-scale production of holey graphite as high-rate anode for lithium ion batteries. *Journal of Energy Chemistry*, **2020**, 48, 122-127	12	21
25	Co-N-C in porous carbon with enhanced lithium ion storage properties. *Chemical Engineering Journal*, **2020**, 389, 124377	14.7	19
24	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	6.7	18
23	Highly Rechargeable Lithium-CO2 Batteries with a Boron- and Nitrogen-Codoped Holey-Graphene Cathode. *Angewandte Chemie*, **2017**, 129, 7074-7078	3.6	17
22	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	7	17
21	Edge-thionic acid-functionalized graphene nanoplatelets as anode materials for high-rate lithium ion batteries. *Nano Energy*, **2019**, 62, 419-425	17.1	16
20	How Cobalt and Iron Doping Determine the Oxygen Evolution Electrocatalytic Activity of NiOOH. *Cell Reports Physical Science*, **2020**, 1, 100077	6.1	15
19	Preparation of a Sb/Cu2Sb/C composite as an anode material for lithium-ion batteries. *RSC Advances*, **2016**, 6, 78959-78962	3.7	15
18	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	6.7	10
17	Metal (M= Ru, Pd and Co) embedded in C2N with enhanced lithium storage properties. *Materials Today Energy*, **2019**, 14, 100359	7	9
16	Study on Vanadium Substitution to Iron in Li2FeP2O7 as Cathode Material for Lithium-ion Batteries. *Electrochimica Acta*, **2014**, 141, 195-202	6.7	9
15	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	15.6	6
14	Preparation of Li9Cr3(P2O7)3(PO4)2 as cathode material for lithium ion batteries through sol-gel method. *Journal of Sol-Gel Science and Technology*, **2011**, 59, 521-524	2.3	6
13	A novel approach for synthesis of expanded graphite and its enhanced lithium storage properties. *Journal of Energy Chemistry*, **2021**, 59, 292-298	12	6

12	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	19.4	6
11	Synthesis of three-dimensional honeycomb-like Fe3N@NC composites with enhanced lithium storage properties. *Carbon*, **2022**, 192, 162-169	10.4	5
10	One-Pot Purification and Iodination of Waste Kish Graphite into High-Quality Electrocatalyst. *Particle and Particle Systems Characterization*, **2017**, 34, 1600426	3.1	4
9	Highly rechargeable lithium oxygen batteries cathode based on boron and nitrogen co-doped holey graphene. *Chemical Engineering Journal*, **2022**, 428, 131025	14.7	4
8	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	14.7	2
7	Iron encased organic networks with enhanced lithium storage properties. *Energy Storage*, **2020**, 2, e114	2.8	2
6	Edge-NFx (x=1 or 2) Protected Graphitic Nanoplatelets as a Stable Lithium Storage Material. *Batteries and Supercaps*, **2020**, 3, 928-935	5.6	1
5	Highly boron-doped holey graphene for lithium oxygen batteries with enhanced electrochemical performance. *Carbon*, **2022**, 189, 404-412	10.4	1
4	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	9.1	1
3	Synthesis of Expanded Holey Graphene as Anode and Na2FePO4F as Cathode for High Performance Sodium Ion Batteries Based on the Recycled Electrodes from Spent Lithium Ion Batteries. *Materials Today Energy*, **2022**, 100997	7	0
2	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	9.3	0
1	N a□ 2 Battery **2022**, 153-199		