

Jiantie Xu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Na ₂ O ₂ Battery 2022 , 153-199		
64	A novel approach to recovery of lithium element and production of holey graphene based on the lithiated graphite of spent lithium ion batteries. <i>Chemical Engineering Journal</i> , 2022 , 436, 135011	14.7	2
63	Highly boron-doped holey graphene for lithium oxygen batteries with enhanced electrochemical performance. <i>Carbon</i> , 2022 , 189, 404-412	10.4	1
62	Expanded graphite confined SnO ₂ as anode for lithium ion batteries with low average working potential and enhanced rate capability. <i>Journal of Materials Science and Technology</i> , 2022 , 107, 165-171	9.1	1
61	Highly rechargeable lithium oxygen batteries cathode based on boron and nitrogen co-doped holey graphene. <i>Chemical Engineering Journal</i> , 2022 , 428, 131025	14.7	4
60	Synthesis of Expanded Holey Graphene as Anode and Na ₂ FePO ₄ F as Cathode for High Performance Sodium Ion Batteries Based on the Recycled Electrodes from Spent Lithium Ion Batteries. <i>Materials Today Energy</i> , 2022 , 100997	7	0
59	Synthesis of three-dimensional honeycomb-like Fe ₃ N@NC composites with enhanced lithium storage properties. <i>Carbon</i> , 2022 , 192, 162-169	10.4	5
58	Highly durable aqueous Zn ion batteries based on a Zn anode coated by three-dimensional cross-linked and branch-linked bismuth-PVDF layer.. <i>Journal of Colloid and Interface Science</i> , 2022 , 617, 422-429	9.3	0
57	A novel approach for synthesis of expanded graphite and its enhanced lithium storage properties. <i>Journal of Energy Chemistry</i> , 2021 , 59, 292-298	12	6
56	A novel approach to facile synthesis of boron and nitrogen co-doped graphene and its application in lithium oxygen batteries. <i>Energy Storage Materials</i> , 2021 , 41, 61-68	19.4	6
55	Edge-NFx (x=1 or 2) Protected Graphitic Nanoplatelets as a Stable Lithium Storage Material. <i>Batteries and Supercaps</i> , 2020 , 3, 928-935	5.6	1
54	How Cobalt and Iron Doping Determine the Oxygen Evolution Electrocatalytic Activity of NiOOH. <i>Cell Reports Physical Science</i> , 2020 , 1, 100077	6.1	15
53	Improved emissions inventory and VOCs speciation for industrial OFP estimation in China. <i>Science of the Total Environment</i> , 2020 , 745, 140838	10.2	29
52	Co-N-C in porous carbon with enhanced lithium ion storage properties. <i>Chemical Engineering Journal</i> , 2020 , 389, 124377	14.7	19
51	Large-scale production of holey graphite as high-rate anode for lithium ion batteries. <i>Journal of Energy Chemistry</i> , 2020 , 48, 122-127	12	21
50	Iron encased organic networks with enhanced lithium storage properties. <i>Energy Storage</i> , 2020 , 2, e114	2.8	2
49	Edge-thionic acid-functionalized graphene nanoplatelets as anode materials for high-rate lithium ion batteries. <i>Nano Energy</i> , 2019 , 62, 419-425	17.1	16

48	Metal (M = Ru, Pd and Co) embedded in C ₂ N with enhanced lithium storage properties. <i>Materials Today Energy</i> , 2019 , 14, 100359	7	9
47	Antimony Nanorod Encapsulated in Cross-Linked Carbon for High-Performance Sodium Ion Battery Anodes. <i>Nano Letters</i> , 2019 , 19, 538-544	11.5	81
46	Defects in metal triiodide perovskite materials towards high-performance solar cells: origin, impact, characterization, and engineering. <i>Chemical Society Reviews</i> , 2018 , 47, 4581-4610	58.5	300
45	Research progress on vanadium-based cathode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8815-8838	13	121
44	Manipulating the Architecture of Atomically Thin Transition Metal (Hydr)oxides for Enhanced Oxygen Evolution Catalysis. <i>ACS Nano</i> , 2018 , 12, 1878-1886	16.7	43
43	3D Macroporous MoxC@N-C with Incorporated Mo Vacancies as Anodes for High-Performance Lithium-Ion Batteries. <i>Small Methods</i> , 2018 , 2, 1800040	12.8	26
42	Three-dimensional carbon frameworks enabling MoS ₂ as anode for dual ion batteries with superior sodium storage properties. <i>Energy Storage Materials</i> , 2018 , 15, 22-30	19.4	97
41	Conjugated Polymers Based on Thiazole Flanked Naphthalene Diimide for Unipolar n-Type Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2018 , 30, 8343-8351	9.6	24
40	Understanding of the capacity contribution of carbon in phosphorus-carbon composites for high-performance anodes in lithium ion batteries. <i>Nano Research</i> , 2017 , 10, 1268-1281	10	36
39	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. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11025-11034	9.5	50
38	Highly Rechargeable Lithium-CO Batteries with a Boron- and Nitrogen-Codoped Holey-Graphene Cathode. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6970-6974	16.4	198
37	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. <i>Advanced Materials</i> , 2017 , 29, 1606454	24	194
36	Highly Rechargeable Lithium-CO ₂ Batteries with a Boron- and Nitrogen-Codoped Holey-Graphene Cathode. <i>Angewandte Chemie</i> , 2017 , 129, 7074-7078	3.6	17
35	Recent Progress in Graphite Intercalation Compounds for Rechargeable Metal (Li, Na, K, Al)-Ion Batteries. <i>Advanced Science</i> , 2017 , 4, 1700146	13.6	276
34	One-Pot Purification and Iodination of Waste Kish Graphite into High-Quality Electrocatalyst. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600426	3.1	4
33	Self-driven hematite-based photoelectrochemical water splitting cells with three-dimensional nanobowl heterojunction and high-photovoltage perovskite solar cells. <i>Materials Today Energy</i> , 2017 , 6, 128-135	7	17
32	Metal-Free Carbon Materials for CO Electrochemical Reduction. <i>Advanced Materials</i> , 2017 , 29, 1701784	24	385
31	Atomically Thin Transition-Metal Dichalcogenides for Electrocatalysis and Energy Storage. <i>Small Methods</i> , 2017 , 1, 1700156	12.8	82

30	2D Frameworks of C N and C N as New Anode Materials for Lithium-Ion Batteries. <i>Advanced Materials</i> , 2017 , 29, 1702007	24	196
29	Chevrel Phase Mo T (T = S, Se) as Electrodes for Advanced Energy Storage. <i>Small</i> , 2017 , 13, 1701441	11	37
28	Preparation of a Sb/Cu ₂ Sb/C composite as an anode material for lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 78959-78962	3.7	15
27	Nitrogen-Doped Holey Graphene for High-Performance Rechargeable LiO ₂ Batteries. <i>ACS Energy Letters</i> , 2016 , 1, 260-265	20.1	95
26	General Preparation of Three-Dimensional Porous Metal Oxide Foams Coated with Nitrogen-Doped Carbon for Enhanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17402-8	9.5	32
25	Hierarchical MnO ₂ /rGO hybrid nanosheets as an efficient electrocatalyst for the oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 5260-5268	6.7	38
24	Growth of NiCo ₂ O ₄ @MnMoO ₄ Nanocolumn Arrays with Superior Pseudocapacitor Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8568-75	9.5	91
23	Atomic Layer-by-Layer Co ₃ O ₄ /Graphene Composite for High Performance Lithium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1501835	21.8	275
22	Growth of MoS ₂ @C nanobowls as a lithium-ion battery anode material. <i>RSC Advances</i> , 2015 , 5, 92506-92514	3.7	47
21	Efficiently photo-charging lithium-ion battery by perovskite solar cell. <i>Nature Communications</i> , 2015 , 6, 8103	17.4	208
20	Nitrogen-Doped Holey Graphene as an Anode for Lithium-Ion Batteries with High Volumetric Energy Density and Long Cycle Life. <i>Small</i> , 2015 , 11, 6179-85	11	89
19	Fluorine: Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries (Adv. Funct. Mater. 8/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1328-1328	15.6	6
18	Amorphous carbon layer contributing Li storage capacity to Nb ₂ O ₅ @C nanosheets. <i>RSC Advances</i> , 2015 , 5, 36104-36107	3.7	43
17	Electrospinning of crystalline MoO ₃ @C nanofibers for high-rate lithium storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3257-3260	13	61
16	Edge-Fluorinated Graphene Nanoplatelets as High Performance Electrodes for Dye-Sensitized Solar Cells and Lithium Ion Batteries. <i>Advanced Functional Materials</i> , 2015 , 25, 1170-1179	15.6	146
15	High-performance sodium ion batteries based on a 3D anode from nitrogen-doped graphene foams. <i>Advanced Materials</i> , 2015 , 27, 2042-8	24	695
14	Three-dimensional-network Li ₃ V ₂ (PO ₄) ₃ /C composite as high rate lithium ion battery cathode material and its compatibility with ionic liquid electrolytes. <i>Journal of Power Sources</i> , 2014 , 246, 124-131	8.9	45
13	Nitrogen Enriched Porous Carbon Spheres: Attractive Materials for Supercapacitor Electrodes and CO ₂ Adsorption. <i>Chemistry of Materials</i> , 2014 , 26, 2820-2828	9.6	480

12	Edge-selectively halogenated graphene nanoplatelets (XGnPs, X = Cl, Br, or I) prepared by ball-milling and used as anode materials for lithium-ion batteries. <i>Advanced Materials</i> , 2014 , 26, 7317-23 ²⁴	24	133
11	Study on Vanadium Substitution to Iron in Li ₂ FeP ₂ O ₇ as Cathode Material for Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2014 , 141, 195-202	6.7	9
10	Sulfur-graphene nanostructured cathodes via ball-milling for high-performance lithium-sulfur batteries. <i>ACS Nano</i> , 2014 , 8, 10920-30	16.7	192
9	Layered P ₂ -Na _{0.66} Fe _{0.5} Mn _{0.5} O ₂ Cathode Material for Rechargeable Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2014 , 1, 371-374	4.3	50
8	The effect of different binders on electrochemical properties of LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ cathode material in lithium ion batteries. <i>Journal of Power Sources</i> , 2013 , 225, 172-178	8.9	167
7	Lithium rich and deficient effects in Li _x CoPO ₄ (x = 0.90, 0.95, 1, 1.05) as cathode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2013 , 88, 865-870	6.7	10
6	A hybrid electrolyte energy storage device with high energy and long life using lithium anode and MnO ₂ nanoflake cathode. <i>Electrochemistry Communications</i> , 2013 , 31, 35-38	5.1	23
5	Cathode materials for next generation lithium ion batteries. <i>Nano Energy</i> , 2013 , 2, 439-442	17.1	191
4	Synthesis, Structure, Electronic, Ionic, and Magnetic Properties of Li ₉ V ₃ (P ₂ O ₇) ₃ (PO ₄) ₂ Cathode Material for Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 8422-8429	3.8	40
3	Preparation of Li ₉ Cr ₃ (P ₂ O ₇) ₃ (PO ₄) ₂ as cathode material for lithium ion batteries through sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2011 , 59, 521-524	2.3	6
2	Layered monodiphosphate Li ₉ V ₃ (P ₂ O ₇) ₃ (PO ₄) ₂ : A novel cathode material for lithium-ion batteries. <i>Electrochimica Acta</i> , 2011 , 56, 2201-2205	6.7	52
1	Preparation and electrochemical properties of Cr-doped Li ₉ V ₃ (P ₂ O ₇) ₃ (PO ₄) ₂ as cathode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2011 , 56, 6562-6567	6.7	18