Xiao-hua Chen

List of Publications by Year
in descending order

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		218677	182427
70	2,882	26	51
papers	citations	h-index	g-index

70	70	70	3385
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Co nanoparticles anchored on the Co-Nx active centers grafted nitrogen-doped graphene with enhanced performance for lithium-sulfur battery. Journal of Alloys and Compounds, 2022, 890, 161552.	5.5	8
2	A Simple Approach towards Highly Dense Graphene Films for High Volumetric Performance Supercapacitors. ChemElectroChem, 2022, 9, .	3.4	5
3	Selfâ€Healing SeO₂ Additives Enable Zinc Metal Reversibility in Aqueous ZnSO₄ Electrolytes. Advanced Functional Materials, 2022, 32, .	14.9	71
4	Highly reversible zinc metal anodes enabled by protonated melamine. Journal of Materials Chemistry A, 2022, 10, 6636-6640.	10.3	21
5	MOFâ€Derived Potassiophilic CuO Nanoparticles on Carbon Fiber Cloth as Host for Stabilizing Potassium Metal Anode. ChemElectroChem, 2022, 9, .	3.4	5
6	Insight into the Effect of Iodine Doping Soft Carbon and Iodine Functional Separator for Lithiumâ€Sulfur Batteries. Batteries and Supercaps, 2022, 5, .	4.7	6
7	3D modified graphene-carbon fiber hybridized skeleton/PDMS composites with high thermal conductivity. Composites Science and Technology, 2022, 225, 109499.	7.8	19
8	Customizing oxygenâ€“containing functional groups for reduced graphene oxide film supercapacitor with high volumetric performance. Journal of Energy Storage, 2022, 52, 104642.	8.1	6
9	An ultrasonication-aided self-assembly strategy toward a PTCDA/RGO film cathode for organic K-ion full batteries. Chemical Communications, 2022, 58, 8348-8351.	4.1	9
10	A 3D graphene/polyimide fiber framework with improved thermal conductivity and mechanical performance. Journal of Central South University, 2022, 29, 1761-1777.	3.0	0
11	Enhanced sodium and potassium ions storage of soft carbon by a S/O co-doped strategy. Electrochimica Acta, 2021, 367, 137526.	5.2	23
12	Redox-active engineered holey reduced graphene oxide films for K+ storage. Carbon, 2021, 174, 173-179.	10.3	12
13	Confining Sb nanoparticles in bamboo-like hierarchical porous aligned carbon nanotubes for use as an anode for sodium ion batteries with ultralong cycling performance. Journal of Materials Chemistry A, 2021, 9, 2152-2160.	10.3	28
14	Enhanced Potassium-Ion Storage of the 3D Carbon Superstructure by Manipulating the Nitrogen-Doped Species and Morphology. Nano-Micro Letters, 2021, 13, 1.	27.0	570
15	Redox-active p-phenylenediamine functionalized reduced graphene oxide film through covalently grafting for ultrahigh areal capacitance Zn-ion hybrid supercapacitor. Journal of Power Sources, 2021, 488, 229426.	7.8	47
16	Metallic-State MoS₂ Nanosheets with Atomic Modification for Sodium Ion Batteries with a High Rate Capability and Long Lifespan. ACS Applied Materials & Interfaces, 2021, 13, 19894-19903.	8.0	20
17	Fe/Fe₃C Embedded in N-Doped Worm-like Porous Carbon for High-Rate Catalysis in Rechargeable Zincâ€“Air Batteries. ACS Applied Materials & Interfaces, 2021, 13, 24710-24722.	8.0	19
18	Stabilizing Zinc Anodes by Regulating the Electrical Double Layer with Saccharin Anions. Advanced Materials, 2021, 33, e2100445.	21.0	351

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19	3D Se-doped NiCoP nanoarrays on carbon cloth for efficient alkaline hydrogen evolution. Journal of Central South University, 2021, 28, 2345-2359.	3.0	22
20	Oxygen-Containing Functional Groups Regulating the Carbon/Electrolyte Interfacial Properties Toward Enhanced K+ Storage. Nano-Micro Letters, 2021, 13, 192.	27.0	60
21	Sulfur cathodes based on dual-functional GMs-MnOOH for high performance lithium sulfur batteries. Materials Today Communications, 2021, 29, 102857.	1.9	2
22	N-rich reduced graphene oxide film with cross-coupled porous networks as free-standing electrode for high performance supercapacitors. Applied Surface Science, 2021, 563, 150303.	6.1	9
23	Understanding the effect of I/N dual-doped hard carbon for high performance K-ion storage. Electrochimica Acta, 2021, 394, 139146.	5.2	7
24	Water intercalation strategy to fabricate low-potential and dense grapheme film anode for high energy density K-ion batteries. Electrochimica Acta, 2021, 403, 139626.	5.2	0
25	Optimized Kinetics Match and Charge Balance Toward Potassium Ion Hybrid Capacitors with Ultrahigh Energy and Power Densities. Small, 2020, 16, e2003724.	10.0	62
26	Sewable and Cuttable Flexible Zinc-Ion Hybrid Supercapacitor Using a Polydopamine/Carbon Cloth-Based Cathode. ACS Sustainable Chemistry and Engineering, 2020, 8, 16028-16036.	6.7	43
27	A Bottomâ€up Inâ€situ Preparation of Grapheneâ€like Porous Carbon for Ultrahigh Surface Area Specific Capacitance Supercapacitors. ChemNanoMat, 2020, 6, 1789-1796.	2.8	2
28	Enhanced performance of lithiumâ€“sulfur batteries based on single-sided chemical tailoring, and organosiloxane grafted PP separator. RSC Advances, 2020, 10, 18115-18123.	3.6	6
29	N-doped carbon sheets arrays embedded with CoP nanoparticles as high-performance cathode for Li-S batteries via triple synergistic effects. Journal of Power Sources, 2020, 455, 227959.	7.8	34
30	Ultrafast Activating Strategy to Significantly Enhance the Electrocatalysis of Commercial Carbon Cloth for Oxygen Evolution Reaction and Overall Water Splitting. ChemNanoMat, 2020, 6, 542-549.	2.8	7
31	Building three-dimensional carbon nanotubes-interwoven Ni3S2 micro-nanostructures for improved sodium storage performance. Electrochimica Acta, 2020, 339, 135938.	5.2	20
32	Boosting the Heat Dissipation Performance of Graphene/Polyimide Flexible Carbon Film via Enhanced Throughâ€Plane Conductivity of 3D Hybridized Structure. Small, 2020, 16, e1903315.	10.0	40
33	High-performance potassium ion capacitors enabled by hierarchical porous, large interlayer spacing, active site rich-nitrogen, and sulfur Co-doped carbon. Carbon, 2020, 164, 1-11.	10.3	71
34	Enhanced Potassium Ion Battery by Inducing Interlayer Anionic Ligands in MoS_{1.5}Se_{0.5} Nanosheets with Exploration of the Mechanism. Advanced Energy Materials, 2020, 10, 1904162.	19.5	48
35	Achieving ultrahigh volumetric performance of graphene composite films by an outerâ€“inner dual space utilizing strategy. Journal of Materials Chemistry A, 2020, 8, 9661-9669.	10.3	24
36	Room temperature ultrafast synthesis of N- and O-rich graphene films with an expanded interlayer distance for high volumetric capacitance supercapacitors. Nanoscale, 2019, 11, 16515-16522.	5.6	19

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37	Improving Polysulfides Adsorption and Redox Kinetics by the Co₄N Nanoparticle/Nâ€Doped Carbon Composites for Lithiumâ€Sulfur Batteries. Small, 2019, 15, e1901454.	10.0	130
38	Unraveling the Potassium Storage Mechanism in Graphite Foam. Advanced Energy Materials, 2019, 9, 1900579.	19.5	133
39	Preparation of graphene/copper composites using solution-combusted porous sheet-like cuprous oxide. Journal of Materials Science, 2019, 54, 396-403.	3.7	8
40	In-situ construction of interconnected N-doped porous carbon-carbon nanotubes networks derived from melamine anchored with MoS2 for high performance lithium-ion batteries. Journal of Alloys and Compounds, 2018, 744, 75-81.	5.5	21
41	Compact-Nanobox Engineering of Transition Metal Oxides with Enhanced Initial Coulombic Efficiency for Lithium-Ion Battery Anodes. ACS Applied Materials & Interfaces, 2018, 10, 8955-8964.	8.0	38
42	Facile synthesis of single-crystalline Co3O4 cubes as high-performance anode for lithium-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 2321-2328.	2.5	8
43	Saqima-like Co3O4/CNTs secondary microstructures with ultrahigh initial Coulombic efficiency as an anode for lithium ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 417-427.	2.5	11
44	3D interconnected mesoporous Si/SiO2 coated with CVD derived carbon as an advanced anode material of Li-ion batteries. Ceramics International, 2018, 44, 3548-3555.	4.8	34
45	Lithium Storage: 3D Selenium Sulfide@Carbon Nanotube Array as Long-Life and High-Rate Cathode Material for Lithium Storage (Adv. Funct. Mater. 43/2018). Advanced Functional Materials, 2018, 28, 1870310.	14.9	1
46	3D Selenium Sulfide@Carbon Nanotube Array as Longâ€Life and Highâ€Rate Cathode Material for Lithium Storage. Advanced Functional Materials, 2018, 28, 1805018.	14.9	34
47	Synergistic effect of three-dimensional cobalt diselenide/carbon nanotube arrays composites for enhanced hydrogen evolution reaction. Electrochimica Acta, 2018, 285, 254-261.	5.2	30
48	Free-standing MnO2/nitrogen-doped graphene paper hybrids as binder-free electrode for supercapacitor applications. Materials Letters, 2018, 231, 114-118.	2.6	16
49	Graphitic carbon-wrapped NiO embedded three dimensional nitrogen doped aligned carbon nanotube arrays with long cycle life for lithium ion batteries. RSC Advances, 2018, 8, 28440-28446.	3.6	8
50	Nitrogen-doped worm-like graphitized hierarchical porous carbon designed for enhancing area-normalized capacitance of electrical double layer supercapacitors. Carbon, 2017, 117, 163-173.	10.3	105
51	Self-assembled synthesis of diamond-like MnCo2O4 as anode active material for lithium-ion batteries with high cycling stability. Journal of Alloys and Compounds, 2017, 722, 387-393.	5.5	23
52	Potassium vapor assisted preparation of highly graphitized hierarchical porous carbon for high rate performance supercapacitors. Journal of Power Sources, 2017, 361, 70-79.	7.8	48
53	Capacity-increasing robust porous SiO₂/Si/graphene/C microspheres as an anode for Li-ion batteries. RSC Advances, 2016, 6, 45077-45084.	3.6	18
54	Sulfur-impregnated 3D hierarchical porous nitrogen-doped aligned carbon nanotubes as high-performance cathode for lithium-sulfur batteries. Journal of Power Sources, 2016, 322, 138-146.	7.8	66

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55	NiO hollow microspheres interconnected by carbon nanotubes as an anode for lithium ion batteries. Electrochimica Acta, 2016, 213, 75-82.	5.2	27
56	Nitrogen-doped carbon coated LiFePO₄/carbon nanotube interconnected nanocomposites for high performance lithium ion batteries. New Journal of Chemistry, 2015, 39, 9782-9788.	2.8	13
57	Three-dimensional structure-based tin disulfide/vertically aligned carbon nanotube arrays composites as high-performance anode materials for lithium ion batteries. Journal of Power Sources, 2015, 277, 131-138.	7.8	52
58	Alignment and structural control of nitrogen-doped carbon nanotubes by utilizing precursor concentration effect. Nanotechnology, 2014, 25, 475601.	2.6	8
59	Sulfurâ€Impregnated, Sandwichâ€Type, Hybrid Carbon Nanosheets with Hierarchical Porous Structure for Highâ€Performance Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2014, 4, 1301988.	19.5	130
60	Hydrothermal controlled synthesis of Fe3O4 nanorods/graphene nanocomposite for high-performance lithium ion batteries. Ceramics International, 2014, 40, 14713-14725.	4.8	27
61	One-step synthesis of Fe3O4@C/reduced-graphite oxide nanocomposites for high-performance lithium ion batteries. Journal of Physics and Chemistry of Solids, 2014, 75, 588-593.	4.0	13
62	Mesoporous LiFePO4 Microspheres Embedded Homogeneously with 3D CNT Conductive Networks for Enhanced Electrochemical Performance. Electrochimica Acta, 2014, 137, 344-351.	5.2	41
63	Self-assembly of Fe3O4 nanorods on graphene for lithium ion batteries with high rate capacity and cycle stability. Electrochemistry Communications, 2013, 28, 139-142.	4.7	62
64	A facile method to synthesize Fe3O4/graphene composites in normal pressure with high rate capacity and cycling stability. Materials Letters, 2013, 91, 315-318.	2.6	19
65	Ballistic thermal transport contributed by the in-plane waves in a quantum wire modulated with an acoustic nanocavity. Journal of Applied Physics, 2012, 112, 124315.	2.5	1
66	High-performance porous carbon for supercapacitors prepared by one-step pyrolysis of PF/gelatin blends. Journal of Central South University, 2012, 19, 41-45.	3.0	3
67	THE COMPARING OF ACOUSTIC PHONON TRANSPORT ABOUT MONOCHROMATIC MODE AND MIXING MODE THROUGH A DOUBLE T-SHAPED QUANTUM WAVEGUIDE. Modern Physics Letters B, 2011, 25, 2313-2321.	1.9	1
68	Structure and properties of polypropyleneâ€wrapped carbon nanotubes composite. Journal of Applied Polymer Science, 2009, 113, 3809-3814.	2.6	22
69	Preparation and shear properties of carbon nanotubes/poly(butyl methacrylate) hybrid material. Polymer Composites, 2008, 29, 972-977.	4.6	21
70	Covalent attachment of poly (acrylic acid) onto multiwalled carbon nanotubes functionalized with formaldehyde via electrophilic substitution reaction. Journal of Materials Science, 2007, 42, 9447-9452.	3.7	14