

Xiaohua Chen

List of Publications by Year in descending order

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60
papers

3,218
citations

201674

27
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155660

55
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60
docs citations

60
times ranked

4069
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Potassium-Ion Storage of the 3D Carbon Superstructure by Manipulating the Nitrogen-Doped Species and Morphology. <i>Nano-Micro Letters</i> , 2021, 13, 1.	27.0	570
2	Stabilizing Zinc Anodes by Regulating the Electrical Double Layer with Saccharin Anions. <i>Advanced Materials</i> , 2021, 33, e2100445.	21.0	351
3	INVESTIGATION OF HOMOLOGOUS SERIES AS PRECURSORY HYDROCARBONS FOR ALIGNED CARBON NANOTUBE FORMATION BY THE SPRAY PYROLYSIS METHOD. <i>Nano</i> , 2011, 06, 205-213.	1.0	226
4	One-pot hydrothermal synthesis of reduced graphene oxide/carbon nanotube/Ni(OH) ₂ composites for high performance electrochemical supercapacitor. <i>Journal of Power Sources</i> , 2013, 243, 555-561.	7.8	204
5	The Role of Cation Vacancies in Electrode Materials for Enhanced Electrochemical Energy Storage: Synthesis, Advanced Characterization, and Fundamentals. <i>Advanced Energy Materials</i> , 2020, 10, 1903780.	19.5	138
6	Unraveling the Potassium Storage Mechanism in Graphite Foam. <i>Advanced Energy Materials</i> , 2019, 9, 1900579.	19.5	133
7	Sulfur-impregnated, Sandwich-type, Hybrid Carbon Nanosheets with Hierarchical Porous Structure for High-performance Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2014, 4, 1301988.	19.5	130
8	Improving Polysulfides Adsorption and Redox Kinetics by the Co ₄ N Nanoparticle/N-doped Carbon Composites for Lithium-Sulfur Batteries. <i>Small</i> , 2019, 15, e1901454.	10.0	130
9	Nitrogen-doped worm-like graphitized hierarchical porous carbon designed for enhancing area-normalized capacitance of electrical double layer supercapacitors. <i>Carbon</i> , 2017, 117, 163-173.	10.3	105
10	High-performance potassium ion capacitors enabled by hierarchical porous, large interlayer spacing, active site rich-nitrogen, and sulfur Co-doped carbon. <i>Carbon</i> , 2020, 164, 1-11.	10.3	71
11	Self-Healing SeO ₂ Additives Enable Zinc Metal Reversibility in Aqueous ZnSO ₄ Electrolytes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	71
12	Optimized Kinetics Match and Charge Balance Toward Potassium Ion Hybrid Capacitors with Ultrahigh Energy and Power Densities. <i>Small</i> , 2020, 16, e2003724.	10.0	62
13	Olivine LiMn _x Fe _{1-x} PO ₄ cathode materials for lithium ion batteries: restricted factors of rate performances. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14214-14232.	10.3	60
14	Oxygen-Containing Functional Groups Regulating the Carbon/Electrolyte Interfacial Properties Toward Enhanced K ⁺ Storage. <i>Nano-Micro Letters</i> , 2021, 13, 192.	27.0	60
15	Element substitution of a spinel LiMn ₂ O ₄ cathode. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21532-21550.	10.3	51
16	Hierarchical Porous ZnMn ₂ O ₄ Microspheres as a High-Performance Anode for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2016, 213, 37-45.	5.2	50
17	Potassium vapor assisted preparation of highly graphitized hierarchical porous carbon for high rate performance supercapacitors. <i>Journal of Power Sources</i> , 2017, 361, 70-79.	7.8	48
18	Functionalized Multi-Walled Carbon Nanotubes Prepared by In Situ Polycondensation of Polyurethane. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 964-972.	2.2	45

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19	Sewable and Cuttable Flexible Zinc-Ion Hybrid Supercapacitor Using a Polydopamine/Carbon Cloth-Based Cathode. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16028-16036.	6.7	43
20	Noncovalent-wrapped sidewall functionalization of multiwalled carbon nanotubes with polyimide. <i>Polymer Composites</i> , 2007, 28, 36-41.	4.6	40
21	Boosting the Heat Dissipation Performance of Graphene/Polyimide Flexible Carbon Film via Enhanced Through-Plane Conductivity of 3D Hybridized Structure. <i>Small</i> , 2020, 16, e1903315.	10.0	40
22	Compact-Nanobox Engineering of Transition Metal Oxides with Enhanced Initial Coulombic Efficiency for Lithium-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8955-8964.	8.0	38
23	Unsaturated coordination polymer frameworks as multifunctional sulfur reservoir for fast and durable lithium-sulfur batteries. <i>Nano Energy</i> , 2021, 79, 105393.	16.0	37
24	Grass-like CuCo_2O_4 nanowire arrays supported on nickel foam with high capacitances and desirable cycling performance. <i>RSC Advances</i> , 2015, 5, 70494-70497.	3.6	36
25	Facile synthesis of 3D plum candy-like ZnCo_2O_4 microspheres as a high-performance anode for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 79971-79977.	3.6	32
26	Hierarchical microstructure of CNTs interwoven ultrathin Co_3S_4 nanosheets as a high performance anode for sodium-ion battery. <i>Ceramics International</i> , 2019, 45, 3591-3599.	4.8	30
27	Confining Sb nanoparticles in bamboo-like hierarchical porous aligned carbon nanotubes for use as an anode for sodium ion batteries with ultralong cycling performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2152-2160.	10.3	28
28	Dual-Confined Sulfur Nanoparticles Encapsulated in Hollow TiO_2 Spheres Wrapped with Graphene for Lithium-Sulfur Batteries. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2911-2917.	3.3	27
29	Achieving ultrahigh volumetric performance of graphene composite films by an outer-inner dual space utilizing strategy. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9661-9669.	10.3	24
30	Self-assembled synthesis of diamond-like MnCo_2O_4 as anode active material for lithium-ion batteries with high cycling stability. <i>Journal of Alloys and Compounds</i> , 2017, 722, 387-393.	5.5	23
31	In-situ construction of interconnected N-doped porous carbon-carbon nanotubes networks derived from melamine anchored with MoS_2 for high performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 744, 75-81.	5.5	21
32	Highly reversible zinc metal anodes enabled by protonated melamine. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6636-6640.	10.3	21
33	Facile approach to obtain individual-nanotube dispersion at high loading in carbon nanotubes/polyimide composites. <i>Polymers for Advanced Technologies</i> , 2007, 18, 458-462.	3.2	20
34	Room temperature ultrafast synthesis of N- and O-rich graphene films with an expanded interlayer distance for high volumetric capacitance supercapacitors. <i>Nanoscale</i> , 2019, 11, 16515-16522.	5.6	19
35	$\text{Fe}/\text{Fe}_3\text{C}$ Embedded in N-Doped Worm-like Porous Carbon for High-Rate Catalysis in Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24710-24722.	8.0	19
36	3D modified graphene-carbon fiber hybridized skeleton/PDMS composites with high thermal conductivity. <i>Composites Science and Technology</i> , 2022, 225, 109499.	7.8	19

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37	Capacity-increasing robust porous SiO ₂ /Si/graphene/C microspheres as an anode for Li-ion batteries. RSC Advances, 2016, 6, 45077-45084.	3.6	18
38	Free-standing MnO ₂ /nitrogen-doped graphene paper hybrids as binder-free electrode for supercapacitor applications. Materials Letters, 2018, 231, 114-118.	2.6	16
39	Nitrogen-doped carbon coated LiFePO ₄ /carbon nanotube interconnected nanocomposites for high performance lithium ion batteries. New Journal of Chemistry, 2015, 39, 9782-9788.	2.8	13
40	Molybdenum disulfide nanosheet embedded three-dimensional vertically aligned carbon nanotube arrays for extremely-excellent cycling stability lithium-ion anodes. RSC Advances, 2016, 6, 80320-80327.	3.6	13
41	Redox-active engineered holey reduced graphene oxide films for K ⁺ storage. Carbon, 2021, 174, 173-179.	10.3	12
42	Saqima-like Co ₃ O ₄ /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
43	Controllable graphene coated mesoporous carbon/sulfur composite for lithium-sulfur batteries. RSC Advances, 2015, 5, 74138-74143.	3.6	10
44	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
45	An ultrasonication-aided self-assembly strategy toward a PTCD/AGO film cathode for organic K-ion full batteries. Chemical Communications, 2022, 58, 8348-8351.	4.1	9
46	Alignment and structural control of nitrogen-doped carbon nanotubes by utilizing precursor concentration effect. Nanotechnology, 2014, 25, 475601.	2.6	8
47	Facile synthesis of single-crystalline Co ₃ O ₄ cubes as high-performance anode for lithium-ion batteries. Journal of Solid State Electrochemistry, 2018, 22, 2321-2328.	2.5	8
48	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
49	Preparation of graphene/copper composites using solution-combusted porous sheet-like cuprous oxide. Journal of Materials Science, 2019, 54, 396-403.	3.7	8
50	Gelatin-based activated carbon with carbon nanotubes as framework for electric double-layer capacitors. Journal of Porous Materials, 2012, 19, 37-44.	2.6	7
51	ARCHITECTURE OF FLOWER-LIKE rGO/CNTs-LOADED Cu _x O NANOPARTICLES AND ITS PHOTOCATALYTIC PROPERTIES. Nano, 2013, 08, 1350052.	1.0	7
52	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
53	Enhanced performance of lithium-sulfur batteries based on single-sided chemical tailoring, and organosiloxane grafted PP separator. RSC Advances, 2020, 10, 18115-18123.	3.6	6
54	Customizing oxygen-containing functional groups for reduced graphene oxide film supercapacitor with high volumetric performance. Journal of Energy Storage, 2022, 52, 104642.	8.1	6

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55	SYNTHESIZING A WELL-ALIGNED CARBON NANOTUBE FOREST WITH HIGH QUALITY VIA THE NEBULIZED SPRAY PYROLYSIS METHOD BY OPTIMIZING ULTRASONIC FREQUENCY. <i>Nano</i> , 2011, 06, 343-348.	1.0	5
56	Staging: Unraveling the Potassium Storage Mechanism in Graphite Foam (<i>Adv. Energy Mater.</i> 22/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970081.	19.5	5
57	A Simple Approach towards Highly Dense Graphene Films for High Volumetric Performance Supercapacitors. <i>ChemElectroChem</i> , 2022, 9, .	3.4	5
58	Effects of anhydrites before and after modification as well as their contents on the thermal and mechanical properties of polyamide 6/anhydrite composites. <i>Polymer Composites</i> , 2016, 37, 2360-2368.	4.6	3
59	A Bottom-Up In-situ Preparation of Graphene-Like Porous Carbon for Ultrahigh Surface Area Specific Capacitance Supercapacitors. <i>ChemNanoMat</i> , 2020, 6, 1789-1796.	2.8	2
60	Water intercalation strategy to fabricate low-potential and dense grapheme film anode for high energy density K-ion batteries. <i>Electrochimica Acta</i> , 2021, 403, 139626.	5.2	0