

Xinghui Wang

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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.

83

papers

4,215

citations

38

h-index

63

g-index

89

ext. papers

4,775

ext. citations

8.8

avg, IF

5.55

L-index

#	Paper	IF	Citations
83	Nanostructured NiO electrode for high rate Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3571		304
82	Highly stable and reversible lithium storage in SnO ₂ nanowires surface coated with a uniform hollow shell by atomic layer deposition. <i>Nano Letters</i> , 2014 , 14, 4852-8	11.5	242
81	Mesoporous NiO nanosheet networks as high performance anodes for Li ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4173	13	241
80	NiO nanocone array electrode with high capacity and rate capability for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9988		186
79	Interconnected porous MnO nanoflakes for high-performance lithium ion battery anodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 9189		162
78	A multilayer Si/CNT coaxial nanofiber LIB anode with a high areal capacity. <i>Energy and Environmental Science</i> , 2014 , 7, 655-661	35.4	151
77	Single electrospun porous NiO-ZnO hybrid nanofibers as anode materials for advanced lithium-ion batteries. <i>Nanoscale</i> , 2013 , 5, 3037-42	7.7	133
76	Three-dimensional network structured β -Fe ₂ O ₃ made from a stainless steel plate as a high-performance electrode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6400	13	132
75	Low-Temperature H ₂ S Detection with Hierarchical Cr-Doped WO ₃ Microspheres. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9674-83	9.5	109
74	Paper-based all-solid-state flexible micro-supercapacitors with ultra-high rate and rapid frequency response capabilities. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 3754-3764	13	101
73	High areal capacity Li ion battery anode based on thick mesoporous Co ₃ O ₄ nanosheet networks. <i>Nano Energy</i> , 2014 , 5, 91-96	17.1	101
72	Roles of carbon nanotubes in novel energy storage devices. <i>Carbon</i> , 2017 , 122, 462-474	10.4	99
71	High performance lithium ion battery anodes based on carbon nanotube-silicon core-shell nanowires with controlled morphology. <i>Carbon</i> , 2013 , 59, 264-269	10.4	94
70	Designed synthesis of wide range microwave absorption Fe ₃ O ₄ -carbon sphere composite. <i>Journal of Alloys and Compounds</i> , 2010 , 489, 252-256	5.7	91
69	Low temperature synthesis of Fe ₃ O ₄ micro-spheres and its microwave absorption properties. <i>Materials Chemistry and Physics</i> , 2010 , 124, 353-358	4.4	83
68	Ultrahigh volumetric capacity lithium ion battery anodes with CNT@Si film. <i>Nano Energy</i> , 2014 , 8, 71-77	17.1	82
67	Electrochemical behaviors of porous SnO ₂ @n/C composites derived from pyrolysis of SnO ₂ /poly(vinylidene fluoride). <i>Electrochimica Acta</i> , 2012 , 66, 204-209	6.7	79

66	Self-supporting Co ₃ O ₄ with lemongrass-like morphology as a high-performance anode material for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17429		71
65	Hydrothermal synthesis of Fe ₃ O ₄ nanoparticles and its application in lithium ion battery. <i>Materials Letters</i> , 2009 , 63, 2701-2703	3.3	69
64	Atomic layer deposition of Co ₃ O ₄ on carbon nanotubes/carbon cloth for high-capacitance and ultrastable supercapacitor electrode. <i>Nanotechnology</i> , 2015 , 26, 094001	3.4	66
63	A new carbonaceous material derived from biomass source peels as an improved anode for lithium ion batteries. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013 , 100, 181-185	6	63
62	Crystallized Zn ₃ (VO ₄) ₂ : Synthesis, characterization and optical property. <i>Journal of Alloys and Compounds</i> , 2010 , 491, 378-381	5.7	62
61	Soft silicon anodes for lithium ion batteries. <i>Energy and Environmental Science</i> , 2014 , 7, 2261	35.4	59
60	High performance carbon nanotube-Si core-shell wires with a rationally structured core for lithium ion battery anodes. <i>Nanoscale</i> , 2013 , 5, 1503-6	7.7	59
59	One-step construction of three-dimensional nickel sulfide-embedded carbon matrix for sodium-ion batteries and hybrid capacitors. <i>Energy Storage Materials</i> , 2020 , 25, 636-643	19.4	58
58	Highly stable and flexible Li-ion battery anodes based on TiO ₂ coated 3D carbon nanostructures. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15394-15398	13	53
57	Vertically aligned CNT-supported thick Ge films as high-performance 3D anodes for lithium ion batteries. <i>Small</i> , 2014 , 10, 2826-9, 2742	11	53
56	High performance binder-free Sn coated carbon nanotube array anode. <i>Carbon</i> , 2015 , 82, 282-287	10.4	51
55	Metal-free SWNT/carbon/MnO ₂ hybrid electrode for high performance coplanar micro-supercapacitors. <i>Nano Energy</i> , 2016 , 22, 11-18	17.1	50
54	Facile synthesis of ultra-long MnO ₂ nanowires and their microwave absorption properties. <i>Materials Letters</i> , 2010 , 64, 1496-1498	3.3	50
53	Rambutan-like hollow carbon spheres decorated with vacancy-rich nickel oxide for energy conversion and storage 2020 , 2, 122-130		50
52	Effect of Zn-substitution on cycling performance of FeCo(OH) ₂ nanosheet electrode for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2585	13	48
51	Thermal oxidation of Ni films for p-type thin-film transistors. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 6875-8	3.6	46
50	Network structures of fullerene-like carbon core/nano-crystalline silicon shell nanofibers as anode material for lithium-ion batteries. <i>Carbon</i> , 2013 , 54, 29-35	10.4	46
49	Enhanced visible light hydrogen production via a multiple heterojunction structure with defect-engineered g-C ₃ N ₄ and two-phase anatase/brookite TiO ₂ . <i>Journal of Catalysis</i> , 2016 , 342, 55-62	7.3	45

48	Copper/silicon core/shell nanotube arrays for free-standing lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15294	13	44
47	Ni/Si nanosheet network as high performance anode for Li ion batteries. <i>Journal of Power Sources</i> , 2015 , 280, 393-396	8.9	42
46	Sputtered nickel oxide on vertically-aligned multiwall carbon nanotube arrays for lithium-ion batteries. <i>Carbon</i> , 2014 , 68, 619-627	10.4	40
45	A hierarchical 3D carbon nanostructure for high areal capacity and flexible lithium ion batteries. <i>Carbon</i> , 2016 , 98, 504-509	10.4	36
44	Facial Synthesis of Three-Dimensional Cross-Linked Cage for High-Performance Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15279-87	9.5	29
43	Template-free synthesized Ni nanofoams as nanostructured current collectors for high-performance electrodes in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 10002	13	29
42	Hydrothermal synthesis of Zn ₃ (OH) ₂ (VO ₄) ₂ ·nH ₂ O nanosheets and its application in lithium ion battery. <i>Materials Letters</i> , 2009 , 63, 2459-2461	3.3	29
41	Enhanced Performance of an Electric Double Layer Microsupercapacitor Based on Novel Carbon-Encapsulated Cu Nanowire Network Structure As the Electrode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40481-40489	9.5	28
40	Germanium coated vertically-aligned multiwall carbon nanotubes as lithium-ion battery anodes. <i>Carbon</i> , 2014 , 77, 551-559	10.4	28
39	Synthesis of novel pompon-like porous SnO ₂ and its application in lithium-ion battery. <i>Materials Letters</i> , 2012 , 66, 193-195	3.3	26
38	MOF-Derived Bifunctional CoSe Nanoparticles Embedded in N-Doped Carbon Nanosheet Arrays as Efficient Sulfur Hosts for Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2021 , 21, 8579-8586	11.5	26
37	Size-controllable porous NiO electrodes for high-performance lithium ion battery anodes. <i>Materials Research Bulletin</i> , 2017 , 96, 533-537	5.1	25
36	Novel silicon/nickel cone arrays for high performance LIB anodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20870		24
35	A Hierarchical Copper Oxide-Germanium Hybrid Film for High Areal Capacity Lithium Ion Batteries. <i>Frontiers in Chemistry</i> , 2019 , 7, 869	5	24
34	Facile fabrication of core-shell Ni ₃ Se ₂ /Ni nanofoams composites for lithium ion battery anodes. <i>Journal of Materials Science and Technology</i> , 2020 , 38, 119-124	9.1	24
33	A 2.0 V capacitive device derived from shape-preserved metal nitride nanorods. <i>Nano Energy</i> , 2016 , 26, 1-6	17.1	23
32	Functionalized horizontally aligned CNT array and random CNT network for CO ₂ sensing. <i>Carbon</i> , 2017 , 117, 263-270	10.4	22
31	Stable Lithium Metal Anode Achieved by In Situ Grown CuO Nanowire Arrays on Cu Foam. <i>Energy & Fuels</i> , 2020 , 34, 7684-7691	4.1	22

30	Performance of SiNi nanorod as anode for Li-ion batteries. <i>Materials Letters</i> , 2011 , 65, 3227-3229	3.3	21
29	Silicon-Based 3D All-Solid-State Micro-Supercapacitor with Superior Performance. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43864-43875	9.5	18
28	A composite with SiOx nanoparticles confined in carbon framework as an anode material for lithium ion battery. <i>RSC Advances</i> , 2016 , 6, 40799-40805	3.7	18
27	Sulfur cathode integrated with multileveled carbon nanoflake-nanosphere networks for high-performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2017 , 227, 217-224	6.7	17
26	Bi-functional electrode for UV detector and supercapacitor. <i>Nano Energy</i> , 2015 , 15, 445-452	17.1	17
25	Large scale low cost fabrication of diameter controllable silicon nanowire arrays. <i>Nanotechnology</i> , 2014 , 25, 255302	3.4	16
24	Optimization of coplanar high rate supercapacitors. <i>Journal of Power Sources</i> , 2016 , 315, 1-8	8.9	15
23	Stable cyclic performance of nickel oxide-carbon composite anode for lithium-ion batteries. <i>Thin Solid Films</i> , 2014 , 558, 356-364	2.2	15
22	Size controlled and morphology tuned fabrication of Fe3O4 nanocrystals and their magnetic properties. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 727-732	5.7	15
21	Hydrothermal synthesis and magnetic property of Cu3(OH)2V2O7·nH2O. <i>Materials Letters</i> , 2010 , 64, 516-519	3.3	14
20	Novel symmetrical bifacial flexible CZTSSe thin film solar cells for indoor photovoltaic applications. <i>Nature Communications</i> , 2021 , 12, 3107	17.4	14
19	Influences of annealing on lithium-ion storage performance of thick germanium film anodes. <i>Nano Energy</i> , 2015 , 12, 521-527	17.1	12
18	Improved performance for lithium-ion batteries with nickel nanocone-arrays supported germanium anode. <i>Materials Letters</i> , 2011 , 65, 1542-1544	3.3	12
17	Synthesis of Zn3(OH)2V2O7·nH2O hierarchical nanostructures and their photoluminescence properties. <i>Materials Chemistry and Physics</i> , 2010 , 120, 426-430	4.4	11
16	Close-spaced thermally evaporated 3D SbSe film for high-rate and high-capacity lithium-ion storage. <i>Nanoscale</i> , 2021 , 13, 9834-9842	7.7	11
15	Optical properties of Zn3(OH)2V2O7·nH2O nanosheets. <i>Materials Chemistry and Physics</i> , 2010 , 124, 803-808	4.4	10
14	Achieving Uniform Li Plating/Stripping at Ultrahigh Currents and Capacities by Optimizing 3D Nucleation Sites and Li Se-Enriched SEI.. <i>Advanced Science</i> , 2022 , e2104689	13.6	10
13	Functionalization of Metal Electrodes for Advanced Asymmetric Supercapacitors. <i>Frontiers in Chemistry</i> , 2019 , 7, 512	5	9

12	Rationally optimized carbon fiber cloth as lithiophilic host for highly stable Li metal anodes. <i>Materials Today Energy</i> , 2021 , 20, 100663	7	9
11	Flexible Planar Microsupercapacitors Based on Polypyrrole Nanotubes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8857-8865	6.1	7
10	A laser synthesis of vanadium oxide bonded graphene for high-rate supercapacitors. <i>Journal of Energy Chemistry</i> , 2020 , 49, 174-178	12	6
9	Molybdenum incorporated Cu _{1.69} ZnSnS ₄ kesterite photovoltaic devices with bilayer microstructure and tunable optical-electronic properties. <i>Solar Energy</i> , 2019 , 194, 777-787	6.8	6
8	Impact of various dopant elements on the electronic structure of Cu ₂ ZnSnS ₄ (CZTS) thin films: a DFT study. <i>CrystEngComm</i> , 2020 , 22, 5786-5791	3.3	5
7	N/S co-doped carbon nanosheet bundles as high-capacity anode for potassium-ion battery. <i>Nano Research</i> , 1	10	5
6	High-performance polycrystalline RuOx cathodes for thin film Li-ion batteries. <i>Electrochimica Acta</i> , 2018 , 283, 228-233	6.7	4
5	Visible photoluminescence of hydrothermal synthesized Sn _{1-x} Ni _x O ₂ nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2011 , 22, 174-178	2.1	3
4	Recent Advances in Screening Lithium Solid-State Electrolytes Through Machine Learning. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	2
3	Transient Laser-Annealing-Induced Mesophase Transitions of Block Copolymer/Besol Thin Films. <i>ACS Polymers Au</i> , 2022 , 2, 42-49		2
2	Enhanced performance of organic solar cells with multifunctional silica-coated Au nanobowtie core-shell structure. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	
1	Recent advances in metal-ion batteries with metal sulfide/selenide 2022 , 645-678		