

# Xinghui Wang

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/4973441/xinghui-wang-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Achieving Uniform Li Plating/Stripping at Ultrahigh Currents and Capacities by Optimizing 3D Nucleation Sites and Li Se-Enriched SEI.. <i>Advanced Science</i> , <b>2022</b> , e2104689	13.6	10
82	Transient Laser-Annealing-Induced Mesophase Transitions of Block Copolymer Resol Thin Films. <i>ACS Polymers Au</i> , <b>2022</b> , 2, 42-49		2
81	Recent advances in metal-ion batteries with metal sulfide/selenide <b>2022</b> , 645-678		
80	MOF-Derived Bifunctional CoSe Nanoparticles Embedded in N-Doped Carbon Nanosheet Arrays as Efficient Sulfur Hosts for Lithium-Sulfur Batteries. <i>Nano Letters</i> , <b>2021</b> , 21, 8579-8586	11.5	26
79	Novel symmetrical bifacial flexible CZTSSe thin film solar cells for indoor photovoltaic applications. <i>Nature Communications</i> , <b>2021</b> , 12, 3107	17.4	14
78	Rationally optimized carbon fiber cloth as lithiophilic host for highly stable Li metal anodes. <i>Materials Today Energy</i> , <b>2021</b> , 20, 100663	7	9
77	Recent Advances in Screening Lithium Solid-State Electrolytes Through Machine Learning. <i>Frontiers in Energy Research</i> , <b>2021</b> , 9,	3.8	2
76	Flexible Planar Microsupercapacitors Based on Polypyrrole Nanotubes. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8857-8865	6.1	7
75	Close-spaced thermally evaporated 3D SbSe film for high-rate and high-capacity lithium-ion storage. <i>Nanoscale</i> , <b>2021</b> , 13, 9834-9842	7.7	11
74	Stable Lithium Metal Anode Achieved by In Situ Grown CuO Nanowire Arrays on Cu Foam. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 7684-7691	4.1	22
73	A laser synthesis of vanadium oxide bonded graphene for high-rate supercapacitors. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 49, 174-178	12	6
72	Rambutan-like hollow carbon spheres decorated with vacancy-rich nickel oxide for energy conversion and storage <b>2020</b> , 2, 122-130		50
71	Impact of various dopant elements on the electronic structure of Cu <sub>2</sub> ZnSnS <sub>4</sub> (CZTS) thin films: a DFT study. <i>CrystEngComm</i> , <b>2020</b> , 22, 5786-5791	3.3	5
70	Silicon-Based 3D All-Solid-State Micro-Supercapacitor with Superior Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 43864-43875	9.5	18
69	Enhanced performance of organic solar cells with multifunctional silica-coated Au nanobowtie core-shell structure. <i>Journal of Nanoparticle Research</i> , <b>2020</b> , 22, 1	2.3	
68	One-step construction of three-dimensional nickel sulfide-embedded carbon matrix for sodium-ion batteries and hybrid capacitors. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 636-643	19.4	58
67	Facile fabrication of core-shell Ni <sub>3</sub> Se <sub>2</sub> /Ni nanofoams composites for lithium ion battery anodes. <i>Journal of Materials Science and Technology</i> , <b>2020</b> , 38, 119-124	9.1	24

66	Enhanced Performance of an Electric Double Layer Microsupercapacitor Based on Novel Carbon-Encapsulated Cu Nanowire Network Structure As the Electrode. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 40481-40489	9.5	28
65	Functionalization of Metal Electrodes for Advanced Asymmetric Supercapacitors. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 512	5	9
64	A Hierarchical Copper Oxide-Germanium Hybrid Film for High Areal Capacity Lithium Ion Batteries. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 869	5	24
63	Molybdenum incorporated Cu <sub>1.69</sub> ZnSnS <sub>4</sub> kesterite photovoltaic devices with bilayer microstructure and tunable optical-electronic properties. <i>Solar Energy</i> , <b>2019</b> , 194, 777-787	6.8	6
62	High-performance polycrystalline RuO <sub>x</sub> cathodes for thin film Li-ion batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 228-233	6.7	4
61	Size-controllable porous NiO electrodes for high-performance lithium ion battery anodes. <i>Materials Research Bulletin</i> , <b>2017</b> , 96, 533-537	5.1	25
60	Functionalized horizontally aligned CNT array and random CNT network for CO <sub>2</sub> sensing. <i>Carbon</i> , <b>2017</b> , 117, 263-270	10.4	22
59	Sulfur cathode integrated with multileveled carbon nanoflake-nanosphere networks for high-performance lithium-sulfur batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 227, 217-224	6.7	17
58	Roles of carbon nanotubes in novel energy storage devices. <i>Carbon</i> , <b>2017</b> , 122, 462-474	10.4	99
57	Facial Synthesis of Three-Dimensional Cross-Linked Cage for High-Performance Lithium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 15279-87	9.5	29
56	A hierarchical 3D carbon nanostructure for high areal capacity and flexible lithium ion batteries. <i>Carbon</i> , <b>2016</b> , 98, 504-509	10.4	36
55	Optimization of coplanar high rate supercapacitors. <i>Journal of Power Sources</i> , <b>2016</b> , 315, 1-8	8.9	15
54	Metal-free SWNT/carbon/MnO <sub>2</sub> hybrid electrode for high performance coplanar micro-supercapacitors. <i>Nano Energy</i> , <b>2016</b> , 22, 11-18	17.1	50
53	Paper-based all-solid-state flexible micro-supercapacitors with ultra-high rate and rapid frequency response capabilities. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 3754-3764	13	101
52	Low-Temperature H <sub>2</sub> S Detection with Hierarchical Cr-Doped WO <sub>3</sub> Microspheres. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 9674-83	9.5	109
51	A composite with SiO <sub>x</sub> nanoparticles confined in carbon framework as an anode material for lithium ion battery. <i>RSC Advances</i> , <b>2016</b> , 6, 40799-40805	3.7	18
50	A 2.0 V capacitive device derived from shape-preserved metal nitride nanorods. <i>Nano Energy</i> , <b>2016</b> , 26, 1-6	17.1	23
49	Enhanced visible light hydrogen production via a multiple heterojunction structure with defect-engineered g-C <sub>3</sub> N <sub>4</sub> and two-phase anatase/brookite TiO <sub>2</sub> . <i>Journal of Catalysis</i> , <b>2016</b> , 342, 55-62	7.3	45

48	Highly stable and flexible Li-ion battery anodes based on TiO <sub>2</sub> coated 3D carbon nanostructures. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 15394-15398	13	53
47	High performance binder-free Sn coated carbon nanotube array anode. <i>Carbon</i> , <b>2015</b> , 82, 282-287	10.4	51
46	Bi-functional electrode for UV detector and supercapacitor. <i>Nano Energy</i> , <b>2015</b> , 15, 445-452	17.1	17
45	Influences of annealing on lithium-ion storage performance of thick germanium film anodes. <i>Nano Energy</i> , <b>2015</b> , 12, 521-527	17.1	12
44	Atomic layer deposition of Co <sub>3</sub> O <sub>4</sub> on carbon nanotubes/carbon cloth for high-capacitance and ultrastable supercapacitor electrode. <i>Nanotechnology</i> , <b>2015</b> , 26, 094001	3.4	66
43	NiBi nanosheet network as high performance anode for Li ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 280, 393-396	8.9	42
42	High areal capacity Li ion battery anode based on thick mesoporous Co <sub>3</sub> O <sub>4</sub> nanosheet networks. <i>Nano Energy</i> , <b>2014</b> , 5, 91-96	17.1	101
41	Effect of Zn-substitution on cycling performance of FeCo(OH) <sub>2</sub> nanosheet electrode for supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2585	13	48
40	Soft silicon anodes for lithium ion batteries. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2261	35.4	59
39	Highly stable and reversible lithium storage in SnO <sub>2</sub> nanowires surface coated with a uniform hollow shell by atomic layer deposition. <i>Nano Letters</i> , <b>2014</b> , 14, 4852-8	11.5	242
38	Copper-silicon core-shell nanotube arrays for free-standing lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 15294	13	44
37	A multilayer Si/CNT coaxial nanofiber LIB anode with a high areal capacity. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 655-661	35.4	151
36	Stable cyclic performance of nickel oxide-carbon composite anode for lithium-ion batteries. <i>Thin Solid Films</i> , <b>2014</b> , 558, 356-364	2.2	15
35	Large scale low cost fabrication of diameter controllable silicon nanowire arrays. <i>Nanotechnology</i> , <b>2014</b> , 25, 255302	3.4	16
34	Germanium coated vertically-aligned multiwall carbon nanotubes as lithium-ion battery anodes. <i>Carbon</i> , <b>2014</b> , 77, 551-559	10.4	28
33	Ultrahigh volumetric capacity lithium ion battery anodes with CNTBi film. <i>Nano Energy</i> , <b>2014</b> , 8, 71-77	17.1	82
32	Sputtered nickel oxide on vertically-aligned multiwall carbon nanotube arrays for lithium-ion batteries. <i>Carbon</i> , <b>2014</b> , 68, 619-627	10.4	40
31	Vertically aligned CNT-supported thick Ge films as high-performance 3D anodes for lithium ion batteries. <i>Small</i> , <b>2014</b> , 10, 2826-9, 2742	11	53

30	Mesoporous NiO nanosheet networks as high performance anodes for Li ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 4173	13	241
29	High performance lithium ion battery anodes based on carbon nanotube-silicon core-shell nanowires with controlled morphology. <i>Carbon</i> , <b>2013</b> , 59, 264-269	10.4	94
28	Single electrospun porous NiO-ZnO hybrid nanofibers as anode materials for advanced lithium-ion batteries. <i>Nanoscale</i> , <b>2013</b> , 5, 3037-42	7.7	133
27	Template-free synthesized Ni nanofoams as nanostructured current collectors for high-performance electrodes in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 10002	13	29
26	Thermal oxidation of Ni films for p-type thin-film transistors. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 6875-8	3.6	46
25	Network structures of fullerene-like carbon core/nano-crystalline silicon shell nanofibers as anode material for lithium-ion batteries. <i>Carbon</i> , <b>2013</b> , 54, 29-35	10.4	46
24	High performance carbon nanotube-Si core-shell wires with a rationally structured core for lithium ion battery anodes. <i>Nanoscale</i> , <b>2013</b> , 5, 1503-6	7.7	59
23	Three-dimensional network structured Fe <sub>2</sub> O <sub>3</sub> made from a stainless steel plate as a high-performance electrode for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6400	13	132
22	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> , <b>2013</b> , 100, 181-185	6	63
21	Electrochemical behaviors of porous SnO <sub>2</sub> /Sn/C composites derived from pyrolysis of SnO <sub>2</sub> /poly(vinylidene fluoride). <i>Electrochimica Acta</i> , <b>2012</b> , 66, 204-209	6.7	79
20	Synthesis of novel pompon-like porous SnO <sub>2</sub> and its application in lithium-ion battery. <i>Materials Letters</i> , <b>2012</b> , 66, 193-195	3.3	26
19	Self-supporting Co <sub>3</sub> O <sub>4</sub> with lemongrass-like morphology as a high-performance anode material for lithium ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17429		71
18	Novel silicon-nickel cone arrays for high performance LIB anodes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 20870		24
17	Interconnected porous MnO nanoflakes for high-performance lithium ion battery anodes. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9189		162
16	NiO nanocone array electrode with high capacity and rate capability for Li-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 9988		186
15	Improved performance for lithium-ion batteries with nickel nanocone-arrays supported germanium anode. <i>Materials Letters</i> , <b>2011</b> , 65, 1542-1544	3.3	12
14	Performance of Si <sub>3</sub> N <sub>4</sub> nanorod as anode for Li-ion batteries. <i>Materials Letters</i> , <b>2011</b> , 65, 3227-3229	3.3	21
13	Visible photoluminescence of hydrothermal synthesized Sn <sub>1-x</sub> Ni <sub>x</sub> O <sub>2</sub> nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2011</b> , 22, 174-178	2.1	3

12	Nanostructured NiO electrode for high rate Li-ion batteries. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3571		304
11	Designed synthesis of wide range microwave absorption Fe <sub>3</sub> O <sub>4</sub> /carbon sphere composite. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 489, 252-256	5-7	91
10	Crystallized Zn <sub>3</sub> (VO <sub>4</sub> ) <sub>2</sub> : Synthesis, characterization and optical property. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 491, 378-381	5-7	62
9	Size controlled and morphology tuned fabrication of Fe <sub>3</sub> O <sub>4</sub> nanocrystals and their magnetic properties. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 505, 727-732	5-7	15
8	Synthesis of Zn <sub>3</sub> (OH) <sub>2</sub> V <sub>2</sub> O <sub>7</sub> ·nH <sub>2</sub> O hierarchical nanostructures and their photoluminescence properties. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 120, 426-430	4-4	11
7	Low temperature synthesis of Fe <sub>3</sub> O <sub>4</sub> micro-spheres and its microwave absorption properties. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 124, 353-358	4-4	83
6	Optical properties of Zn <sub>3</sub> (OH) <sub>2</sub> V <sub>2</sub> O <sub>7</sub> ·nH <sub>2</sub> O nanosheets. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 124, 803-808	4-4	10
5	Hydrothermal synthesis and magnetic property of Cu <sub>3</sub> (OH) <sub>2</sub> V <sub>2</sub> O <sub>7</sub> ·nH <sub>2</sub> O. <i>Materials Letters</i> , <b>2010</b> , 64, 516-519	3-3	14
4	Facile synthesis of ultra-long MnO <sub>2</sub> nanowires and their microwave absorption properties. <i>Materials Letters</i> , <b>2010</b> , 64, 1496-1498	3-3	50
3	Hydrothermal synthesis of Zn <sub>3</sub> (OH) <sub>2</sub> V <sub>2</sub> O <sub>7</sub> ·nH <sub>2</sub> O nanosheets and its application in lithium ion battery. <i>Materials Letters</i> , <b>2009</b> , 63, 2459-2461	3-3	29
2	Hydrothermal synthesis of Fe <sub>3</sub> O <sub>4</sub> nanoparticles and its application in lithium ion battery. <i>Materials Letters</i> , <b>2009</b> , 63, 2701-2703	3-3	69
1	N/S co-doped carbon nanosheet bundles as high-capacity anode for potassium-ion battery. <i>Nano Research</i> , 1	10	5