Wen-Hui Wang

List of Publications by Year
in descending order

58 papers	1,908 citations	257450 24 h-index	265206 42 g-index
58 all docs	58 docs citations	58 times ranked	2223 citing authors

#	Article	IF	Citations
1	Comprehensive Review of P2-Type Na$_{2/3}$Ni$_{1/3}$Mn$_{2/3}$O$_2$, a Potential Cathode for Practical Application of Na-Ion Batteries. ACS Applied Materials & Interfaces, 2019, 11, 22051-22066.	8.0	148
2	Optimized Li and Fe recovery from spent lithium-ion batteries via a solution-precipitation method. RSC Advances, 2016, 6, 43613-43625.	3.6	139
3	Lithiophilic Ag Nanoparticle Layer on Cu Current Collector toward Stable Li Metal Anode. ACS Applied Materials & Interfaces, 2019, 11, 8148-8154.	8.0	120
4	A closed-loop process for recycling LiNi x Co y Mn (1−x−y) O 2 from mixed cathode materials of lithium-ion batteries. Green Energy and Environment, 2017, 2, 42-50.	8.7	84
5	SnP0.94 nanoplates/graphene oxide composite for novel potassium-ion battery anode. Chemical Engineering Journal, 2019, 370, 677-683.	12.7	77
6	Towards high-performance lithium metal anodes via the modification of solid electrolyte interphases. Journal of Energy Chemistry, 2020, 45, 7-17.	12.9	74
7	Improving the cycling stability of Sn 4 P 3 anode for sodium-ion battery. Journal of Power Sources, 2017, 364, 420-425.	7.8	68
8	Improving the Fenton catalytic performance of FeOCl using an electron mediator. Journal of Hazardous Materials, 2020, 384, 121494.	12.4	67
9	Accurate prediction of water quality in urban drainage network with integrated EMD-LSTM model. Journal of Cleaner Production, 2022, 354, 131724.	9.3	66
10	A deep learning algorithm for multi-source data fusion to predict water quality of urban sewer networks. Journal of Cleaner Production, 2021, 318, 128533.	9.3	58
11	Improving cycle stability of SnS anode for sodium-ion batteries by limiting Sn agglomeration. Journal of Power Sources, 2018, 377, 1-6.	7.8	57
12	Hybrid Protective Layer for Stable Sodium Metal Anodes at High Utilization. ACS Applied Materials & Interfaces, 2019, 11, 37693-37700.	8.0	51
13	Yolk–shell structured SnSe as a high-performance anode for Na-ion batteries. Inorganic Chemistry Frontiers, 2019, 6, 562-565.	6.0	48
14	Poly(vinylidene difluoride) coating on Cu current collector for high-performance Na metal anode. Energy Storage Materials, 2020, 24, 588-593.	18.0	48
15	Stable Cycling of High-Voltage Lithium-Metal Batteries Enabled by High-Concentration FEC-Based Electrolyte. ACS Applied Materials & Interfaces, 2020, 12, 22901-22909.	8.0	48
16	Phase pure Sn$_4$P$_3$ nanotops by solution-liquid-solid growth for anode application in sodium ion batteries. Journal of Materials Chemistry A, 2017, 5, 5791-5796.	10.3	46
17	Piezo-promoted regeneration of Fe2+ boosts peroxydisulfate activation by Bi2Fe4O9 nanosheets. Applied Catalysis B: Environmental, 2022, 310, 121330.	20.2	45
18	Cu4SnP10 as a promising anode material for sodium ion batteries. Nano Energy, 2017, 39, 506-512.	16.0	44

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19	3D Printing of Hierarchical Graphene Lattice for Advanced Na Metal Anodes. ACS Applied Energy Materials, 2019, 2, 3869-3877.	5.1	40
20	Recent Advances in Desalination Battery: An Initial Review. ACS Applied Materials & Interfaces, 2020, 12, 57671-57685.	8.0	32
21	Ni_3N Nanocrystals Decorated Reduced Graphene Oxide with High Ionic Conductivity for Stable Lithium Metal Anode. ACS Applied Energy Materials, 2019, 2, 2692-2698.	5.1	30
22	Thermally reduced graphene paper with fast Li ion diffusion for stable Li metal anode. Electrochimica Acta, 2019, 294, 413-422.	5.2	28
23	Synthesis of Cu 2 SnS 3 nanosheets as an anode material for sodium ion batteries. Journal of Alloys and Compounds, 2017, 699, 517-520.	5.5	27
24	Facile synthesis of hollow Cu3P for sodium-ion batteries anode. Rare Metals, 2021, 40, 3460-3465.	7.1	26
25	Data-driven method based on deep learning algorithm for detecting fat, oil, and grease (FOG) of sewer networks in urban commercial areas. Water Research, 2021, 207, 117797.	11.3	26
26	Three-dimensional carbon felt host for stable sodium metal anode. Carbon, 2019, 155, 50-55.	10.3	25
27	One-dimensional coaxial cable-like MWCNTs/Sn_4P_3@C as an anode material with long-term durability for lithium ion batteries. Inorganic Chemistry Frontiers, 2020, 7, 2651-2659.	6.0	25
28	A comparative structural and electrochemical study of monoclinic Li3V2(PO4)3/C and rhombohedral Li2.5Na0.5V(2âˆ'2x/3)Nix(PO4)3/C. Electrochimica Acta, 2013, 103, 259-265.	5.2	24
29	Stabilizing sodium metal anode through facile construction of organic-metal interface. Journal of Energy Chemistry, 2022, 66, 133-139.	12.9	24
30	Rational design of Sn4P3/Ti3C2Tx composite anode with enhanced performance for potassium-ion battery. Rare Metals, 2022, 41, 2259-2267.	7.1	23
31	Enhancement of the cycling performance of $Li_3V_2(PO_4)_3$/C by stabilizing the crystal structure through Zn^{2+} doping. Physical Chemistry Chemical Physics, 2014, 16, 13858-13865.	2.8	19
32	Application and prospective of Sn-P based anodes for alkali-ion batteries. Energy Storage Materials, 2021, 40, 292-311.	18.0	19
33	Enabling high sodium storage performance of micron-sized Sn4P3 anode via diglyme-derived solid electrolyte interphase. Chemical Engineering Journal, 2020, 392, 123810.	12.7	18
34	Electron-rich CNTs modified FeOCl/Fe2O3 with improved Fenton catalytic performance. Composites Communications, 2021, 27, 100811.	6.3	16
35	Removal of gaseous volatile organic compounds via vacuum ultraviolet photodegradation: Review and prospect. Journal of Environmental Sciences, 2023, 125, 427-442.	6.1	16
36	Deep learning model based on urban multi-source data for predicting heavy metals (Cu, Zn, Ni, Cr) in industrial sewer networks. Journal of Hazardous Materials, 2022, 432, 128732.	12.4	16

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37	The selection of input weights of extreme learning machine: A sample structure preserving point of view. Neurocomputing, 2017, 261, 28-36.	5.9	15
38	Synthesis of sword-like CuSbS2 nanowires as an anode material for sodium-ion batteries. Ceramics International, 2018, 44, 13609-13612.	4.8	14
39	Monodisperse tin nanoparticles and hollow tin oxide nanospheres as anode materials for high performance lithium ion batteries. Inorganic Chemistry Frontiers, 2019, 6, 473-476.	6.0	14
40	Submicron-sized Sb_2O_3 with hierarchical structure as high-performance anodes for Na-ion storage. International Journal of Energy Research, 2019, 43, 6561-6565.	4.5	14
41	A compromise of electrochemical performances of Li3V2(PO4)3/C upon cycling within a suitable potential range. Electrochimica Acta, 2014, 116, 490-494.	5.2	13
42	A new carbon additive compounded Li3V1.97Zn0.05(PO4)3/C cathode for plug-in hybrid electric vehicles. Electrochimica Acta, 2015, 170, 269-275.	5.2	13
43	Porous SnSbNPs@3D-C Anode with Improved Stability for Sodium-Ion Battery. Journal of the Electrochemical Society, 2018, 165, A1455-A1459.	2.9	13
44	Electrochemical investigation of Sn-Co alloys as anode for Na-ion batteries. Journal of Alloys and Compounds, 2019, 780, 565-569.	5.5	13
45	Effect of particle size on the sodium storage performance of Sn4P3. Journal of Alloys and Compounds, 2019, 771, 204-208.	5.5	12
46	Preliminary Study of Li3V2(PO4)3/C for Aqueous Rechargeable Lithium-Ion Batteries Based on Mild Electrolyte. ECS Electrochemistry Letters, 2014, 3, A105-A107.	1.9	11
47	Sodium storage capability of spinel Li4Mn5O12. Electrochimica Acta, 2015, 185, 76-82.	5.2	10
48	Synthesis and sodium storage performance of Sb porous nanostructure. Journal of Alloys and Compounds, 2020, 846, 156369.	5.5	8
49	Multiphysical field measurement and fusion for battery electric-thermal-contour performance analysis. Applied Energy, 2020, 262, 114518.	10.1	7
50	Sn_4P_3/TiC Composites as Li-ion Battery Anode with High Volumetric Capacity and Good Rate Capability. Energy Technology, 2019, 7, 1900371.	3.8	5
51	Effect of Amount of Water Dispersant on Morphological and Electrochemical Properties of Li3V2(PO4)3/C Prepared with Carbothermic Reduction Method. Journal of the Electrochemical Society, 2014, 161, A968-A973.	2.9	4
52	Efficient mineralization of gaseous benzyl chloride by VUV/UV photodegradation in humid air. Environmental Science and Pollution Research, 2021, 28, 27520-27527.	5.3	4
53	Phosphorus-rich tin phosphide-carbon nanotubes composite as a high-performance anode for potassium ion batteries. Composites Communications, 2021, 28, 100938.	6.3	4
54	Chloride-mediated electrochemical degradation of the venlafaxine antidepressant. Environmental Technology and Innovation, 2022, 25, 102189.	6.1	4

#	Article	IF	Citations
55	P2â€Na 2/3 Ni 2/3 Te 1/3 O 2 cathode for Naâ€ion batteries with high voltage and excellent stability. Energy and Environmental Materials, 0, , .	12.8	3
56	Strategies for Stabilization of Zn Anodes for Aqueous Zn-Based Batteries: A Mini Review. Frontiers in Chemistry, 2021, 9, 822624.	3.6	3
57	Influence of solvation structure on interphase components for tin phosphide anode in potassium-ion batteries. Cell Reports Physical Science, 2022, 3, 100886.	5.6	2
58	Study on the Efficiency of On-Site Sludge Reduction Using Ti/SnO2-Sb and Ti/RuO2-IrO2 Electrodes Based on a Cell Lysis-Cryptic Growth System. Water (Switzerland), 2021, 13, 616.	2.7	0