Zhiming Liu

List of Publications by Year
in descending order

42 papers	2,314 citations	304743 22 h-index	289244 40 g-index
42 all docs	42 docs citations	42 times ranked	3528 citing authors

#	Article	IF	Citations
1	Structure-designed synthesis of FeS₂@C yolkâ€“shell nanoboxes as a high-performance anode for sodium-ion batteries. Energy and Environmental Science, 2017, 10, 1576-1580.	30.8	475
2	Sb@C coaxial nanotubes as a superior long-life and high-rate anode for sodium ion batteries. Energy and Environmental Science, 2016, 9, 2314-2318.	30.8	414
3	Etchingâ€inâ€aâ€Box: A Novel Strategy to Synthesize Unique Yolkâ€Shelled Fe₃O₄@Carbon with an Ultralong Cycling Life for Lithium Storage. Advanced Energy Materials, 2016, 6, 1502318.	19.5	158
4	Sb-based electrode materials for rechargeable batteries. Journal of Materials Chemistry A, 2018, 6, 8159-8193.	10.3	95
5	A two-dimensional fingerprint nanoprobe based on black phosphorus for bio-SERS analysis and chemo-photothermal therapy. Nanoscale, 2018, 10, 18795-18804.	5.6	86
6	Synergistic protective effect of a BN-carbon separator for highly stable lithium sulfur batteries. NPG Asia Materials, 2017, 9, e375-e375.	7.9	85
7	Phase-controlled synthesis of molybdenum oxide nanoparticles for surface enhanced Raman scattering and photothermal therapy. Nanoscale, 2018, 10, 5997-6004.	5.6	85
8	Effect of silica sand size and saturation on methane hydrate formation in the presence of SDS. Journal of Natural Gas Science and Engineering, 2018, 56, 266-280.	4.4	69
9	In situ photothermal activation of necroptosis potentiates black phosphorus-mediated cancer photo-immunotherapy. Chemical Engineering Journal, 2020, 394, 124314.	12.7	66
10	Effect of porous media and its distribution on methane hydrate formation in the presence of surfactant. Applied Energy, 2020, 261, 114373.	10.1	58
11	Redox responsive nanoparticle encapsulating black phosphorus quantum dots for cancer theranostics. Bioactive Materials, 2021, 6, 655-665.	15.6	56
12	Effect of Porous Media and Sodium Dodecyl Sulphate Complex System on Methane Hydrate Formation. Energy & Fuels, 2018, 32, 5736-5749.	5.1	48
13	Electrochemical Energy Conversion and Storage with Zeolitic Imidazolate Framework Derived Materials: A Perspective. ChemElectroChem, 2018, 5, 3571-3588.	3.4	46
14	Electrospun Sn-doped LiTi₂(PO₄)₃/C nanofibers for ultra-fast charging and discharging. Journal of Materials Chemistry A, 2015, 3, 10395-10402.	10.3	43
15	Black phosphorus-Au filter paper-based three-dimensional SERS substrate for rapid detection of foodborne bacteria. Applied Surface Science, 2019, 497, 143825.	6.1	40
16	Influence of the Particle Size of Porous Media on the Formation of Natural Gas Hydrate: A Review. Energy & Fuels, 2021, 35, 11640-11664.	5.1	39
17	Rationally designed nitrogen-doped yolk-shell Fe7Se8/Carbon nanoboxes with enhanced sodium storage in half/full cells. Carbon, 2020, 166, 175-182.	10.3	39
18	A Nanoâ€Micro Hybrid Structure Composed of Fe₇S₈ Nanoparticles Embedded in Nitrogenâ€Doped Porous Carbon Framework for Highâ€Performance Lithium/Sodiumâ€Ion Batteries. Particle and Particle Systems Characterization, 2018, 35, 1800163.	2.3	32

#	Article	IF	Citations
19	Experimental investigation on the micro-morphologies and growing process of methane hydrate formation in SDS solution. Fuel, 2021, 293, 120320.	6.4	31
20	Photo-induced synthesis of molybdenum oxide quantum dots for surface-enhanced Raman scattering and photothermal therapy. Journal of Materials Chemistry B, 2020, 8, 1040-1048.	5.8	28
21	Wax and Waxâ€"Hydrate Deposition Characteristics in Single-, Two-, and Three-Phase Pipelines: A Review. Energy & Fuels, 2020, 34, 13350-13368.	5.1	27
22	Tetrafunctional template-assisted strategy to preciously construct co-doped Sb@C nanofiber with longitudinal tunnels for ultralong-life and high-rate sodium storage. Energy Storage Materials, 2022, 48, 90-100.	18.0	27
23	Bi@C Nanoplates Derived from (BiO)₂CO₃ as an Enhanced Electrode Material for Lithium/Sodiumâ€Ion Batteries. ChemistrySelect, 2018, 3, 8973-8979.	1.5	23
24	Oxygenated P/N co-doped carbon for efficient 2e^{â^'}oxygen reduction to H₂O₂. Journal of Materials Chemistry A, 2022, 10, 14355-14363.	10.3	22
25	Facile hot spots assembly on molybdenum oxide nanosheets via in situ decoration with gold nanoparticles. Applied Surface Science, 2019, 480, 1162-1170.	6.1	21
26	NIR-II Responsive Molybdenum Dioxide Nanosystem Manipulating Cellular Immunogenicity for Enhanced Tumor Photoimmunotherapy. Nano Letters, 2022, 22, 4741-4749.	9.1	21
27	Electrospun porous lithium manganese phosphateâ€"carbon nanofibers as a cathode material for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 17713-17720.	10.3	20
28	SERS analysis of carcinoma-associated fibroblasts in a tumor microenvironment based on targeted 2D nanosheets. Nanoscale, 2020, 12, 2133-2141.	5.6	20
29	Iron-chalcogenide-based electrode materials for electrochemical energy storage. Journal of Materials Chemistry A, 2022, 10, 7517-7556.	10.3	20
30	Few-Layer NbTe₂ Nanosheets as Substrates for Surface-Enhanced Raman Scattering Analysis. ACS Applied Nano Materials, 2020, 3, 11363-11371.	5.0	17
31	Investigation on Hydrate Formation and Growth Characteristics in Dissolved Asphaltene-Containing Water-In-Oil Emulsion. Langmuir, 2021, 37, 11072-11083.	3.5	17
32	Rapid label-free SERS detection of foodborne pathogenic bacteria based on hafnium ditelluride-Au nanocomposites. Journal of Innovative Optical Health Sciences, 2020, 13, .	1.0	15
33	Molybdenum oxide nano-dumplings with excellent stability for photothermal cancer therapy and as a controlled release hydrogel. New Journal of Chemistry, 2019, 43, 14281-14290.	2.8	14
34	Black phosphorusâ€"polypyrrole nanocomposites for high-performance photothermal cancer therapy. New Journal of Chemistry, 2019, 43, 8620-8626.	2.8	12
35	Dual-responsive ultrathin 1T-phase niobium telluride nanosheet-based delivery systems for enhanced chemo-photothermal therapy. Journal of Materials Chemistry B, 2021, 9, 8109-8120.	5.8	11
36	Full-Scale Label-Free Surface-Enhanced Raman Scattering Analysis of Mouse Brain Using a Black Phosphorus-Based Two-Dimensional Nanoprobe. Applied Sciences (Switzerland), 2019, 9, 398.	2.5	10

#	Article	IF	Citations
37	A flexible Mn_{0.5}Ti₂(PO₄)₃/C nanofiber film with superior cycling stability for potassium-ion batteries. Nanoscale, 2021, 13, 19956-19965.	5.6	9
38	Highly Graphitic Carbon Nanofibers Web as a Cathode Material for Lithium Oxygen Batteries. Applied Sciences (Switzerland), 2018, 8, 209.	2.5	7
39	Improving the chemical stability of blue heteroleptic iridium emitter FIrpic in the lowest triplet state through ancillary ligand modification: a theoretical perspective. Physical Chemistry Chemical Physics, 2022, 24, 9543-9550.	2.8	5
40	Facile synthesis of metal-phenolic-coated gold nanocuboids for surface-enhanced Raman scattering. Applied Optics, 2020, 59, 6124.	1.8	3
41	Facile Fabrication of Flowerâ€Like C@Î±â€Mo₂C Hybrids with Enhanced Energy Storage Properties. ChemistrySelect, 2018, 3, 8395-8401.	1.5	0
42	Facile synthesis of Au@palladium oxide nano-sunflowers for ultrasensitive surface-enhanced Raman scattering analysis. New Journal of Chemistry, 0, , .	2.8	0