

Lianbang Wang

List of Publications by Year in descending order

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66
papers

1,696
citations

279701

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289141

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citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering Bamboo Leaves Into 3D Macroporous Si@C Composites for Stable Lithium-Ion Battery Anodes. <i>Frontiers in Chemistry</i> , 2022, 10, 882681.	1.8	2
2	Low-carbon CeO _x /Ru@RuO ₂ nanosheets as bifunctional catalysts for lithium-oxygen batteries. <i>Journal of Alloys and Compounds</i> , 2022, 924, 166354.	2.8	4
3	A one-step dynamic hydrothermal method for the synthesis of orthorhombic LiMnO ₂ /CNTs nanocomposites networks for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157834.	2.8	9
4	Polyethylenimine-modified bimetallic Au@Rh core-shell mesoporous nanospheres surpass Pt for pH-universal hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13080-13086.	5.2	29
5	N-doped carbon nanolayer modified nickel foam: A novel substrate for supercapacitors. <i>Applied Surface Science</i> , 2021, 546, 148754.	3.1	7
6	Core-shell CoSn@CoSnO _x Nanoparticles Encapsulated in Hollow Carbon Nanocubes as Anodes for Lithium-ion Batteries. <i>Energy Technology</i> , 2021, 9, 2100153.	1.8	12
7	Constructing Densely Compacted Graphite/Si/SiO ₂ Ternary Composite Anodes for High-Performance Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22323-22331.	4.0	19
8	Facile fabrication of compact LiFePO ₄ /C composite with excellent atomically-efficient for high-energy-density Li-ion batteries. <i>Journal of Power Sources</i> , 2021, 496, 229759.	4.0	17
9	Porous Carbon Nanosheets Armoring 3D Current Collectors toward Ultrahigh Mass Loading for High-Energy-Density All-Solid-State Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52519-52529.	4.0	6
10	Hierarchical porous carbon material regenerated from natural bamboo-leaf: How to improve the performance of lead-carbon batteries?. <i>Journal of Power Sources</i> , 2021, 516, 230664.	4.0	9
11	Sub-10 nm SnO ₂ /Fe ₃ O ₄ /graphene nanosheets: Nanocatalysis to improve initial coulombic efficiency for lithium storage. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152624.	2.8	8
12	Recycling silicon-based industrial waste as sustainable sources of Si/SiO ₂ composites for high-performance Li-ion battery anodes. <i>Journal of Power Sources</i> , 2020, 449, 227513.	4.0	68
13	Enlarging Surface/Bulk Ratios of NiO Nanoparticles toward High Utilization and Rate Capability for Supercapacitors. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 1900344.	1.2	7
14	Sub-10 nm V ₂ O ₅ Crystals on Carbon Nanosheets for Advanced All-Solid-State Lithium Metal Batteries. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 2000164.	1.2	4
15	Ultrafine, high-loading and oxygen-deficient cerium oxide embedded on mesoporous carbon nanosheets for superior lithium-oxygen batteries. <i>Nano Energy</i> , 2020, 71, 104570.	8.2	28
16	Uniform Mesoporous CoCO ₃ Nanospindles on Graphite Nanosheets for Highly Efficient Lithium Storage. <i>Particle and Particle Systems Characterization</i> , 2020, 37, 2000113.	1.2	3
17	EDTA-2Na assisted dynamic hydrothermal synthesis of orthorhombic LiMnO ₂ for lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154599.	2.8	10
18	Three-dimensional porous copper framework supported group IVA element materials as sodium-ion battery anode materials. <i>Journal of Alloys and Compounds</i> , 2019, 771, 169-175.	2.8	14

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19	Endoplasmic reticulum targeted fluorescent probe for the detection of hydrogen sulfide based on a twist-blockage strategy. <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 8778-8783.	1.5	29
20	Facile Synthesis of Amorphous Ge Supported by Ni Nanopyramid Arrays as an Anode Material for Sodium-Ion Batteries. <i>ChemistryOpen</i> , 2019, 8, 298-303.	0.9	19
21	Size-dependent capacitive behavior of homogeneous MnO nanoparticles on carbon cloth as electrodes for symmetric solid-state supercapacitors with high performance. <i>Electrochimica Acta</i> , 2019, 307, 442-450.	2.6	20
22	Facile One-Step Dynamic Hydrothermal Synthesis of Spinel LiMn ₂ O ₄ /Carbon Nanotubes Composite as Cathode Material for Lithium-Ion Batteries. <i>Materials</i> , 2019, 12, 4123.	1.3	5
23	Co ₂ SiO ₄ /SiO ₂ /RGO nanosheets: Boosting the lithium storage capability of tetravalent Si by using highly-dispersed Co element. <i>Electrochimica Acta</i> , 2018, 282, 609-617.	2.6	41
24	Ultrathin Layered Hydroxide Cobalt Acetate Nanoplates Face-to-Face Anchored to Graphene Nanosheets for High-Efficiency Lithium Storage. <i>Advanced Functional Materials</i> , 2017, 27, 1605544.	7.8	103
25	Uniform core-shell Cu ₆ Sn ₅ @C nanospheres with controllable synthesis and excellent lithium storage performances. <i>RSC Advances</i> , 2017, 7, 28399-28406.	1.7	15
26	Core-shell yolk-shell Si@C@Void@C nanohybrids as advanced lithium ion battery anodes with good electronic conductivity and corrosion resistance. <i>Journal of Power Sources</i> , 2017, 342, 529-536.	4.0	200
27	The Influence of Residual Acidic and Sulfate Impurities of Electrolytic Manganese Dioxide on the Electrochemistry of LiMn ₂ O ₄ Cathode. <i>ChemistrySelect</i> , 2017, 2, 9402-9406.	0.7	0
28	Preparation of Chemical Manganese Dioxide by Dilute Sulphuric Acid Pickling of Mn ₃ O ₄ and Its Application to the Synthesis of LiMn ₂ O ₄ . <i>ChemistrySelect</i> , 2017, 2, 7013-7017.	0.7	1
29	Ultrahigh Reversibility of SnO ₂ in SnO ₂ @C Quantum Dots/Graphene Oxide Nanosheets for Lithium Storage. <i>ChemistrySelect</i> , 2017, 2, 11853-11859.	0.7	7
30	Excellent Lithium Storage Materials Consisting of Highly Distributed Fe ₃ O ₄ Quantum Dots on Commercially Available Graphite Nanoplates. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 597-601.	1.2	13
31	Multi-yolk-shell SnO ₂ /Co ₃ Sn ₂ @C Nanocubes with High Initial Coulombic Efficiency and Oxygen Reutilization for Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 35172-35179.	4.0	50
32	Effect of pore lengths on the reduction degree and lithium storage performance of Mesoporous SiO _x nanomaterials. <i>Journal of Alloys and Compounds</i> , 2016, 663, 524-530.	2.8	18
33	Highly-Dispersed Ni@QDs/Mesoporous Carbon Nanoplates: A Universal and Commercially Applicable Approach Based on Corn Straw Piths and High Capacitive Performances. <i>ChemElectroChem</i> , 2015, 2, 1897-1902.	1.7	17
34	Mesoporous Mn ₃ O ₄ Nanobeads/Graphene Hybrids: Facile Gel-Like Film Synthesis, Rational Structure Design, and Excellent Performance for Lithium Storage. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 721-727.	1.2	39
35	EG-Assisted Synthesis and Electrochemical Performance of Ultrathin Carbon-Coated LiMnPO ₄ Nanoplates as Cathodes in Lithium Ion Batteries. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-8.	1.5	1
36	Preparation and lithium storage performance of yolk-shell Si@void@C nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17562-17565.	1.3	51

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37	MnO QD/Graphene Dot Fabrics: A Versatile Nanohybrid Material. <i>ChemElectroChem</i> , 2015, 2, 789-794.	1.7	25
38	Micro/nano-complex-structure SiO _x –PANI–Ag composites with homogeneously-embedded Si nanocrystals and nanopores as high-performance anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3776.	5.2	53
39	Do Transition Metal Carbonates Have Greater Lithium Storage Capability Than Oxides? A Case Study of Monodisperse CoCO ₃ and CoO Microspindles. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12346-12352.	4.0	83
40	Surface coating of LiMn ₂ O ₄ spinel via in situ hydrolysis route: effect of the solution. <i>Ionics</i> , 2013, 19, 739-745.	1.2	13
41	Preparation of Si-PPy-Ag composites and their electrochemical performance as anode for lithium-ion batteries. <i>Ionics</i> , 2013, 19, 401-407.	1.2	11
42	Nano-sized spinel LiMn ₂ O ₄ powder fabricated via modified dynamic hydrothermal synthesis. <i>Ceramics International</i> , 2013, 39, 3359-3364.	2.3	21
43	Facile synthesis of MoS ₂ /graphene composites: effects of different cationic surfactants on microstructures and electrochemical properties of reversible lithium storage. <i>RSC Advances</i> , 2013, 3, 21675.	1.7	62
44	Spinel-Li _{3.5} xTi ₅ O ₁₂ coated LiMn ₂ O ₄ with high surface Mn valence for an enhanced cycling performance at high temperature. <i>Electrochemistry Communications</i> , 2013, 31, 92-95.	2.3	20
45	Microwave assisted sol–gel synthesis of chlorine doped lithium vanadium phosphate. <i>Ceramics International</i> , 2013, 39, 2165-2170.	2.3	23
46	Carbon-filament-entangled lithium iron phosphate/carbon composite produced in partially reductive atmosphere: Dual role of the iron as source material and catalyst. <i>Ceramics International</i> , 2013, 39, 2175-2181.	2.3	2
47	High purity lithium iron phosphate/carbon composites prepared by using secondary lithium source. <i>Powder Technology</i> , 2013, 237, 160-164.	2.1	7
48	Three-dimensional macroporous Sn–Ag thin film anode prepared by electro-less reduction method: effect of micro-structure. <i>Ionics</i> , 2013, 19, 295-300.	1.2	8
49	Enhanced cycle ability of spinel LiMn ₂ O ₄ by controlling the phase purity and structural strain. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 1390-1395.	1.9	21
50	Synthesis and properties of Li ₃ V ₂ xCe _x (PO ₄) ₃ /C cathode materials for Li-ion batteries. <i>Journal of Alloys and Compounds</i> , 2012, 532, 49-54.	2.8	54
51	Effects of Li ₂ CO ₃ as a secondary lithium source on the LiFePO ₄ /C composites prepared via solid-state method. <i>Journal of Physics and Chemistry of Solids</i> , 2012, 73, 803-807.	1.9	7
52	Electrochemical Characteristics of LaNi _{4.5} Al _{0.5} Alloy Used as Anodic Catalyst in a Direct Borohydride Fuel Cell. <i>Journal of Materials Science and Technology</i> , 2011, 27, 46-50.	5.6	10
53	Catalytic Hydrolysis of Borohydride for Fuel Cells. <i>Chinese Journal of Chemical Engineering</i> , 2011, 19, 693-697.	1.7	2
54	LaNi _{4.5} Al _{0.5} alloy doped with Au used as anodic materials in a borohydride fuel cell. <i>Journal of Power Sources</i> , 2008, 184, 260-264.	4.0	31

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55	C N x nanotubes with pyridinelike structures: p-type semiconductors and Li storage materials. Journal of Chemical Physics, 2008, 129, 104703.	1.2	87
56	Li ₆ V ₁₀ O ₂₈ , a novel cathode material for Li-ion battery. Electrochimica Acta, 2007, 52, 2945-2949.	2.6	43
57	Diammonium bis[hexaaquanickel(II)] decavanadate tetrahydrate, (NH ₄) ₂ [Ni(H ₂ O) ₆] ₂ V ₁₀ O ₂₈ ·4H ₂ O. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, i1-i3.	0.2	2
58	Modification of alumina bubbles with ammonium aluminum sulphate. Ceramics International, 2006, 32, 905-909.	2.3	7
59	Electrochemical Behavior of Nitrobenzene on Pt Micro-disk Electrode in Aprotic Medium. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2006, 22, 635-637.	2.2	0
60	Multilayered Sn-Zn-Cu alloy thin-film as negative electrodes for advanced lithium-ion batteries. Journal of Power Sources, 2005, 141, 286-292.	4.0	37
61	Rare earth hydrogen storage alloy used in borohydride fuel cells. Electrochemistry Communications, 2005, 7, 1477-1481.	2.3	42
62	Polymeric bis(lithium disodium nonahydrate) decavanadate, {[LiNa ₂ (H ₂ O) ₉] ₂ [V ₁₀ O ₂₈]} _n . Acta Crystallographica Section E: Structure Reports Online, 2005, 61, i185-i187.	0.2	2
63	AB ₅ -type hydrogen storage alloy used as anodic materials in borohydride fuel cell. Journal of Alloys and Compounds, 2005, 391, 318-322.	2.8	46
64	LmNi _{4.78} Mn _{0.22} alloy modified with Si used as anodic materials in borohydride fuel cells. Journal of Alloys and Compounds, 2005, 397, 313-316.	2.8	41
65	Electroplated Sn-Zn Alloy Electrode for Li Secondary Batteries. Journal of the Electrochemical Society, 2003, 150, A1346.	1.3	35
66	Study on the multi-composition AB ₅ alloys including Li, made by the diffusion method, and their electrodes. Journal of Alloys and Compounds, 2000, 302, 65-69.	2.8	14