

Dian-Long Wang

List of Publications by Year in descending order

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77
papers

4,557
citations

126901

33
h-index

102480

66
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77
all docs

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docs citations

77
times ranked

5027
citing authors

#	ARTICLE	IF	CITATIONS
1	A three-dimensional porous LiFePO ₄ cathode material modified with a nitrogen-doped graphene aerogel for high-power lithium ion batteries. <i>Energy and Environmental Science</i> , 2015, 8, 869-875.	30.8	412
2	Graphene-based composites for electrochemical energy storage. <i>Energy Storage Materials</i> , 2020, 24, 22-51.	18.0	364
3	Anodic Oxidation Strategy toward Structure-Optimized V ₂ O ₃ Cathode <i>via</i> Electrolyte Regulation for Zn-Ion Storage. <i>ACS Nano</i> , 2020, 14, 7328-7337.	14.6	229
4	A Hierarchical Porous C@LiFePO ₄ /Carbon Nanotubes Microsphere Composite for High-Rate Lithium-Ion Batteries: Combined Experimental and Theoretical Study. <i>Advanced Energy Materials</i> , 2016, 6, 1600426.	19.5	194
5	Preolithiation: A Crucial Strategy for Boosting the Practical Application of Next-Generation Lithium Ion Battery. <i>ACS Nano</i> , 2021, 15, 2197-2218.	14.6	192
6	The enhanced X-ray Timing and Polarimetry mission "eXTP". <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	5.1	178
7	Synergistic deficiency and heterojunction engineering boosted VO ₂ redox kinetics for aqueous zinc-ion batteries with superior comprehensive performance. <i>Energy Storage Materials</i> , 2020, 33, 390-398.	18.0	178
8	Solid Electrolyte Interphases on Sodium Metal Anodes. <i>Advanced Functional Materials</i> , 2020, 30, 2004891.	14.9	154
9	3D self-supported hierarchical core/shell structured MnCo ₂ O ₄ @CoS arrays for high-energy supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1822-1831.	10.3	141
10	Mesoporous carbon-coated LiFePO ₄ nanocrystals co-modified with graphene and Mg ²⁺ doping as superior cathode materials for lithium ion batteries. <i>Nanoscale</i> , 2014, 6, 986-995.	5.6	139
11	A three dimensional SiO _x /C@RGO nanocomposite as a high energy anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3521-3527.	10.3	138
12	Hierarchical design of hollow Co-Ni LDH nanocages strung by MnO ₂ nanowire with enhanced pseudocapacitive properties. <i>Energy Storage Materials</i> , 2019, 19, 370-378.	18.0	127
13	LiFePO ₄ quantum-dots composite synthesized by a general microreactor strategy for ultra-high-rate lithium ion batteries. <i>Nano Energy</i> , 2017, 42, 363-372.	16.0	121
14	Construction of Structure-Tunable Si@Void@C Anode Materials for Lithium-Ion Batteries through Controlling the Growth Kinetics of Resin. <i>ACS Nano</i> , 2019, 13, 12219-12229.	14.6	119
15	Synergistic nanostructure and heterointerface design propelled ultra-efficient in-situ self-transformation of zinc-ion battery cathodes with favorable kinetics. <i>Nano Energy</i> , 2021, 81, 105601.	16.0	113
16	Desired crystal oriented LiFePO ₄ nanoplatelets in situ anchored on a graphene cross-linked conductive network for fast lithium storage. <i>Nanoscale</i> , 2015, 7, 8819-8828.	5.6	107
17	Improvement of the electrochemical performance of carbon-coated LiFePO ₄ modified with reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2013, 1, 135-144.	10.3	104
18	Interfacial and Electronic Modulation via Localized Sulfurization for Boosting Lithium Storage Kinetics. <i>Advanced Materials</i> , 2020, 32, e2000151.	21.0	98

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19	All-climate sodium ion batteries based on the NASICON electrode materials. <i>Nano Energy</i> , 2016, 30, 756-761.	16.0	81
20	Modified solid-electrolyte interphase toward stable Li metal anode. <i>Nano Energy</i> , 2020, 77, 105308.	16.0	75
21	A reduced graphene oxide modified metallic cobalt composite with superior electrochemical performance for supercapacitors. <i>RSC Advances</i> , 2015, 5, 63553-63560.	3.6	74
22	A 3D conductive scaffold with lithiophilic modification for stable lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17967-17976.	10.3	57
23	Ultrafast preparation of three-dimensional porous tin-graphene composites with superior lithium ion storage. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12918.	10.3	53
24	Synthesis and characterization of sulfonated graphene as a highly active solid acid catalyst for the ester-exchange reaction. <i>Catalysis Science and Technology</i> , 2013, 3, 1194.	4.1	52
25	The composite electrode of LiFePO_4 cathode materials modified with exfoliated graphene from expanded graphite for high power Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2822-2829.	10.3	51
26	Carbon nanotube decorated $\text{NaTi}_2(\text{PO}_4)_3/\text{C}$ nanocomposite for a high-rate and low-temperature sodium-ion battery anode. <i>RSC Advances</i> , 2016, 6, 70277-70283.	3.6	51
27	Holey graphene modified LiFePO_4 hollow microsphere as an efficient binary sulfur host for high-performance lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 26, 433-442.	18.0	49
28	The synergy effect on Li storage of LiFePO_4 with activated carbon modifications. <i>RSC Advances</i> , 2013, 3, 20024.	3.6	46
29	A MIL-47(V) derived hierarchical lasagna-structured $\text{V}_2\text{O}_3@C$ hollow microcuboid as an efficient sulfur host for high-performance lithium-sulfur batteries. <i>Nanoscale</i> , 2020, 12, 4552-4561.	5.6	44
30	A facile hydrothermal synthesis of a reduced graphene oxide modified cobalt disulfide composite electrode for high-performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 7129-7138.	3.6	41
31	Boosting electrochemical kinetics of S cathodes for room temperature Na/S batteries. <i>Matter</i> , 2021, 4, 1768-1800.	10.0	39
32	Facile controlled synthesis of a hierarchical porous nanocoral-like Co_3S_4 electrode for high-performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 54076-54086.	3.6	36
33	In situ growth of CuO submicro-sheets on optimized Cu foam to induce uniform Li deposition and stripping for stable Li metal batteries. <i>Electrochimica Acta</i> , 2020, 339, 135941.	5.2	36
34	Core-shell structured $\text{Fe}_3\text{O}_4@NiS$ nanocomposite as high-performance anode material for alkaline nickel-iron rechargeable batteries. <i>Electrochimica Acta</i> , 2017, 231, 479-486.	5.2	35
35	A regular, compact but microporous packing structure: high-density graphene assemblies for high-volumetric-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12653-12662.	10.3	34
36	A new reflowing strategy based on lithiophilic substrates towards smooth and stable lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 18126-18134.	10.3	32

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37	Trifunctional Electrode Additive for High Active Material Content and Volumetric Lithium-ion Electrode Densities. <i>Advanced Energy Materials</i> , 2019, 9, 1803390.	19.5	32
38	Growth of LiFePO ₄ nanoplatelets with orientated (010) facets on graphene for fast lithium storage. <i>Materials Letters</i> , 2014, 118, 137-141.	2.6	31
39	Carbon-coated single-crystalline LiFePO ₄ nanocomposites for high-power Li-ion batteries: the impact of minimization of the precursor particle size. <i>RSC Advances</i> , 2014, 4, 10067.	3.6	31
40	Sodiophilic Decoration of a Three-Dimensional Conductive Scaffold toward a Stable Na Metal Anode. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5452-5463.	6.7	31
41	Suppressing lithium dendrites within inorganic solid-state electrolytes. <i>Cell Reports Physical Science</i> , 2022, 3, 100706.	5.6	30
42	Stabilizing the structure of LiMn _{0.5} Fe _{0.5} PO ₄ via the formation of concentration-gradient hollow spheres with Fe-rich surfaces. <i>Nanoscale</i> , 2019, 11, 3933-3944.	5.6	27
43	Purifying the Phase of NaTi ₂ (PO ₄) ₃ for Enhanced Na ⁺ Storage Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10663-10671.	8.0	27
44	A V ₂ O ₃ @N ₂ C cathode material for aqueous zinc-ion batteries with boosted zinc-ion storage performance. <i>Rare Metals</i> , 2022, 41, 1605-1615.	7.1	26
45	Preparation of Co ₃ O ₄ nanoplate/graphene sheet composites and their synergistic electrochemical performance. <i>Ionics</i> , 2013, 19, 215-220.	2.4	25
46	One-pot synthesis of SnS nanorods and their lithium storage properties. <i>Ionics</i> , 2014, 20, 141-144.	2.4	25
47	A three-dimensional cathode matrix with bi-confinement effect of polysulfide for lithium-sulfur battery. <i>Applied Surface Science</i> , 2018, 427, 396-404.	6.1	23
48	Metal-organic framework derived 3D graphene decorated NaTi ₂ (PO ₄) ₃ for fast Na-ion storage. <i>Nanoscale</i> , 2019, 11, 7347-7357.	5.6	23
49	Hydrogen evolution behavior of electrochemically active carbon modified with indium and its effects on the cycle performance of valve-regulated lead-acid batteries. <i>RSC Advances</i> , 2014, 4, 44152-44157.	3.6	20
50	A rational VO ₂ nanotube/graphene binary sulfur host for superior lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155504.	5.5	18
51	Dual roles of iron powder on the synthesis of LiFePO ₄ @C/graphene cathode a nanocomposite for high-performance lithium ion batteries. <i>RSC Advances</i> , 2015, 5, 100018-100023.	3.6	17
52	Three-dimensional nitrogen-doped graphene aerogel toward dendrite-free lithium-metal anode. <i>Ionics</i> , 2020, 26, 13-22.	2.4	17
53	Preparation and characterization of layered LiNi _{0.9} Co _{0.05} Mn _{0.025} Mg _{0.025} O ₂ cathode material by a sol-gel method for lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 40779-40784.	3.6	16
54	A study on LiFePO ₄ /graphite cells with built-in Li ₄ Ti ₅ O ₁₂ reference electrodes. <i>RSC Advances</i> , 2018, 8, 18597-18603.	3.6	15

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55	Corrosion resistance of nickel foam modified with electroless Ni–P alloy as positive current collector in a lithium ion battery. <i>RSC Advances</i> , 2013, 3, 25648.	3.6	13
56	Stress-release design for high-capacity and long-time lifespan aqueous zinc-ion batteries. <i>Materials Today Energy</i> , 2021, 21, 100799.	4.7	12
57	Facile fabrication of coal-derived activated carbon/Co ₃ O ₄ nanocomposites with superior electrochemical performance. <i>Ionics</i> , 2017, 23, 1927-1931.	2.4	10
58	A LiFePO ₄ /Li ₂ S _n hybrid system with enhanced Li-ion storage performance. <i>New Journal of Chemistry</i> , 2018, 42, 6626-6630.	2.8	9
59	Interface coupling in FeOOH/MXene heterojunction for highly reversible lithium-ion storage. <i>Materials Today Energy</i> , 2021, 19, 100584.	4.7	9
60	Modified carbothermal synthesis and electrochemical performance of LiFePO ₄ /C composite as cathode materials for lithium-ion batteries. <i>Ionics</i> , 2013, 19, 245-252.	2.4	8
61	Li ₃ V ₂ (PO ₄) ₃ as a cathode additive for the over-discharge protection of lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 76933-76937.	3.6	8
62	LiAlCl ₄ ·3SO ₂ : a promising inorganic electrolyte for stable Li metal anode at room and low temperature. <i>Ionics</i> , 2019, 25, 4137-4147.	2.4	7
63	A novel route to fabricate high-density graphene assemblies for high-volumetric-performance supercapacitors: effect of cation pre-intercalation. <i>RSC Advances</i> , 2016, 6, 36971-36977.	3.6	6
64	Lithium fluoride additive for inorganic LiAlCl ₄ ·3SO ₂ electrolyte toward stable lithium metal anode. <i>Electrochimica Acta</i> , 2020, 345, 136193.	5.2	6
65	Preparation of SnO ₂ @graphene from SnS@graphene oxide for enhanced reversible lithium ion storage. <i>Ionics</i> , 2013, 19, 1223-1228.	2.4	5
66	Nitrogen-doped carbon coated SiO nanoparticles Co-modified with nitrogen-doped graphene as a superior anode material for lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 35717-35725.	3.6	5
67	A stable protective layer toward high-performance lithium metal battery. <i>Ionics</i> , 2019, 25, 4067-4074.	2.4	5
68	Construction of Dual-Carbon Co-Modified LiFePO ₄ Nanocrystals via Microreactor Strategy for High-Performance Lithium Ion Batteries. <i>Energy Technology</i> , 2020, 8, 2000171.	3.8	5
69	Precast solid electrolyte interface film on Li metal anode toward longer cycling life. <i>Ionics</i> , 2020, 26, 1711-1719.	2.4	4
70	Graphene-Modified Mesoporous Iron Phosphate as Superior Binary Sulfur Host for Lithium-Sulfur Batteries. <i>Energy Technology</i> , 2020, 8, 1901462.	3.8	4
71	Preparation and controllable prelithiation of core-shell SnO _x @C composites for high-performance lithium-ion batteries. <i>CrystEngComm</i> , 2022, 24, 3189-3198.	2.6	4
72	A LiAlCl ₄ ·3SO ₂ -NaAlCl ₄ ·2SO ₂ binary inorganic electrolyte with improved electrochemical performance for Li-metal batteries. <i>Ionics</i> , 2019, 25, 4751-4760.	2.4	3

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73	A three-dimensional multilayered SiO ₂ @graphene nanostructure as a superior anode material for lithium-ion batteries. RSC Advances, 2014, 4, 36502-36506.	3.6	2
74	The difference in aging behaviors and mechanisms between floating charge and cycling of LiFePO ₄ /graphite batteries. Ionics, 2019, 25, 2139-2145.	2.4	2
75	EQCM studies of composition and electrochemical performance of film prepared by electrochemical reduction of sodium ferrate. Journal of Solid State Electrochemistry, 2012, 16, 2079-2084.	2.5	1
76	3D Alk@MXene@Fe ₃ O ₄ as Cathode Additive for Rechargeable Lithium-Sulfur Batteries. Advanced Energy and Sustainability Research, 0, , 2100167.	5.8	1
77	Study on modification and failure of precast solid electrolyte interface film on Li metal anodes. International Journal of Energy Research, 2021, 45, 14034-14046.	4.5	0