Dian-Long Wang

List of Publications by Year in Descending Order

76 papers	2,996 citations	30 h-index	54 g-index
77 ext. papers	3,791 ext. citations	8.5 avg, IF	5.64 L-index

#	Paper	IF	Citations
76	A V2O3@NC cathode material for aqueous zinc-ion batteries with boosted zinc-ion storage performance. *Rare Metals*, **2022**, 41, 1605	5.5	1
75	Suppressing lithium dendrites within inorganic solid-state electrolytes. *Cell Reports Physical Science*, **2022**, 3, 100706	6.1	2
74	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	
73	Boosting electrochemical kinetics of S cathodes for room temperature Na/S batteries. *Matter*, **2021**, 4, 1768-1800	12.7	18
72	Interface coupling in FeOOH/MXene heterojunction for highly reversible lithium-ion storage. *Materials Today Energy*, **2021**, 19, 100584	7	5
71	Synergistic nanostructure and heterointerface design propelled ultra-efficient in-situ self-transformation of zinc-ion battery cathodes with favorable kinetics. *Nano Energy*, **2021**, 81, 105601	17.1	43
70	Prelithiation: A Crucial Strategy for Boosting the Practical Application of Next-Generation Lithium Ion Battery. *ACS Nano*, **2021**, 15, 2197-2218	16.7	58
69	Stress-release design for high-capacity and long-time lifespan aqueous zinc-ion batteries. *Materials Today Energy*, **2021**, 21, 100799	7	3
68	Anodic Oxidation Strategy toward Structure-Optimized VO Cathode Electrolyte Regulation for Zn-Ion Storage. *ACS Nano*, **2020**, 14, 7328-7337	16.7	101
67	Interfacial and Electronic Modulation via Localized Sulfurization for Boosting Lithium Storage Kinetics. *Advanced Materials*, **2020**, 32, e2000151	24	56
66	In situ growth of CuO submicro-sheets on optimized Cu foam to induce uniform Li deposition and stripping for stable Li metal batteries. *Electrochimica Acta*, **2020**, 339, 135941	6.7	19
65	Graphene-Modified Mesoporous Iron Phosphate as Superior Binary Sulfur Host for Lithium–Sulfur Batteries. *Energy Technology*, **2020**, 8, 1901462	3.5	3
64	Construction of Dual-Carbon Co-Modified LiFePO4 Nanocrystals via Microreactor Strategy for High-Performance Lithium Ion Batteries. *Energy Technology*, **2020**, 8, 2000171	3.5	3
63	Sodiophilic Decoration of a Three-Dimensional Conductive Scaffold toward a Stable Na Metal Anode. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 5452-5463	8.3	17
62	A rational VO2 nanotube/graphene binary sulfur host for superior lithium-sulfur batteries. *Journal of Alloys and Compounds*, **2020**, 838, 155504	5.7	11
61	A MIL-47(V) derived hierarchical lasagna-structured VO@C hollow microcuboid as an efficient sulfur host for high-performance lithium-sulfur batteries. *Nanoscale*, **2020**, 12, 4552-4561	7.7	19
60	Holey graphene modified LiFePO4 hollow microsphere as an efficient binary sulfur host for high-performance lithium-sulfur batteries. *Energy Storage Materials*, **2020**, 26, 433-442	19.4	36

59	Precast solid electrolyte interface film on Li metal anode toward longer cycling life. *Ionics*, **2020**, 26, 1711-1719	2.7	2
58	Synergistic deficiency and heterojunction engineering boosted VO2 redox kinetics for aqueous zinc-ion batteries with superior comprehensive performance. *Energy Storage Materials*, **2020**, 33, 390-398	19.4	79
57	Modified solid-electrolyte interphase toward stable Li metal anode. *Nano Energy*, **2020**, 77, 105308	17.1	34
56	Solid Electrolyte Interphases on Sodium Metal Anodes. *Advanced Functional Materials*, **2020**, 30, 2004891	15.6	56
55	Graphene-based composites for electrochemical energy storage. *Energy Storage Materials*, **2020**, 24, 22-51	19.4	214
54	Three-dimensional nitrogen-doped graphene aerogel toward dendrite-free lithium-metal anode. *Ionics*, **2020**, 26, 13-22	2.7	6
53	Lithium fluoride additive for inorganic LiAlCl4□SO2 electrolyte toward stable lithium metal anode. *Electrochimica Acta*, **2020**, 345, 136193	6.7	3
52	Stabilizing the structure of LiMnFePOvia the formation of concentration-gradient hollow spheres with Fe-rich surfaces. *Nanoscale*, **2019**, 11, 3933-3944	7.7	19
51	Trifunctional Electrode Additive for High Active Material Content and Volumetric Lithium-Ion Electrode Densities. *Advanced Energy Materials*, **2019**, 9, 1803390	21.8	20
50	A LiA1Cl4□SO2-NaAlCl4□2SO2 binary inorganic electrolyte with improved electrochemical performance for Li-metal batteries. *Ionics*, **2019**, 25, 4751-4760	2.7	2
49	LiAlCl4□SO2: a promising inorganic electrolyte for stable Li metal anode at room and low temperature. *Ionics*, **2019**, 25, 4137-4147	2.7	4
48	A stable protective layer toward high-performance lithium metal battery. *Ionics*, **2019**, 25, 4067-4074	2.7	4
47	Metal-organic framework derived 3D graphene decorated NaTi(PO) for fast Na-ion storage. *Nanoscale*, **2019**, 11, 7347-7357	7.7	16
46	Purifying the Phase of NaTi(PO) for Enhanced Na Storage Properties. *ACS Applied Materials & Interfaces*, **2019**, 11, 10663-10671	9.5	11
45	The difference in aging behaviors and mechanisms between floating charge and cycling of LiFePO4/graphite batteries. *Ionics*, **2019**, 25, 2139-2145	2.7	1
44	A new reflowing strategy based on lithiophilic substrates towards smooth and stable lithium metal anodes. *Journal of Materials Chemistry A*, **2019**, 7, 18126-18134	13	18
43	Construction of Structure-Tunable Si@Void@C Anode Materials for Lithium-Ion Batteries through Controlling the Growth Kinetics of Resin. *ACS Nano*, **2019**, 13, 12219-12229	16.7	76
42	The enhanced X-ray Timing and Polarimetry mission□XTP. *Science China: Physics, Mechanics and Astronomy*, **2019**, 62, 1	3.6	95

41	Hierarchical design of hollow Co-Ni LDH nanocages strung by MnO2 nanowire with enhanced pseudocapacitive properties. *Energy Storage Materials*, **2019**, 19, 370-378	19.4	80
40	A LiFePO4/Li2Sn hybrid system with enhanced Li-ion storage performance. *New Journal of Chemistry*, **2018**, 42, 6626-6630	3.6	9
39	3D self-supported hierarchical core/shell structured MnCo2O4@CoS arrays for high-energy supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 1822-1831	13	108
38	A three-dimensional cathode matrix with bi-confinement effect of polysulfide for lithium-sulfur battery. *Applied Surface Science*, **2018**, 427, 396-404	6.7	22
37	A study on LiFePO/graphite cells with built-in LiTiO reference electrodes.. *RSC Advances*, **2018**, 8, 18597-18603	3.7	10
36	A 3D conductive scaffold with lithiophilic modification for stable lithium metal batteries. *Journal of Materials Chemistry A*, **2018**, 6, 17967-17976	13	45
35	Core-shell structured Fe3O4@NiS nanocomposite as high-performance anode material for alkaline nickel-iron rechargeable batteries. *Electrochimica Acta*, **2017**, 231, 479-486	6.7	27
34	LiFePO4 quantum-dots composite synthesized by a general microreactor strategy for ultra-high-rate lithium ion batteries. *Nano Energy*, **2017**, 42, 363-372	17.1	101
33	Facile fabrication of coal-derived activated carbon/Co3O4 nanocomposites with superior electrochemical performance. *Ionics*, **2017**, 23, 1927-1931	2.7	8
32	Li3V2(PO4)3 as a cathode additive for the over-discharge protection of lithium ion batteries. *RSC Advances*, **2016**, 6, 76933-76937	3.7	7
31	All-climate sodium ion batteries based on the NASICON electrode materials. *Nano Energy*, **2016**, 30, 756-761	17.1	56
30	Carbon nanotube decorated NaTi2(PO4)3/C nanocomposite for a high-rate and low-temperature sodium-ion battery anode. *RSC Advances*, **2016**, 6, 70277-70283	3.7	42
29	A facile hydrothermal synthesis of a reduced graphene oxide modified cobalt disulfide composite electrode for high-performance supercapacitors. *RSC Advances*, **2016**, 6, 7129-7138	3.7	31
28	A Hierarchical Porous C@LiFePO4/Carbon Nanotubes Microsphere Composite for High-Rate Lithium-Ion Batteries: Combined Experimental and Theoretical Study. *Advanced Energy Materials*, **2016**, 6, 1600426	21.8	162
27	Facile controlled synthesis of a hierarchical porous nanocoral-like Co3S4 electrode for high-performance supercapacitors. *RSC Advances*, **2016**, 6, 54076-54086	3.7	31
26	A novel route to fabricate high-density graphene assemblies for high-volumetric-performance supercapacitors: effect of cation pre-intercalation. *RSC Advances*, **2016**, 6, 36971-36977	3.7	6
25	A regular, compact but microporous packing structure: high-density graphene assemblies for high-volumetric-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 12653-12662	13	27
24	A reduced graphene oxide modified metallic cobalt composite with superior electrochemical performance for supercapacitors. *RSC Advances*, **2015**, 5, 63553-63560	3.7	49

23	Desired crystal oriented LiFePO4 nanoplatelets in situ anchored on a graphene cross-linked conductive network for fast lithium storage. *Nanoscale*, **2015**, 7, 8819-28	7.7	92
22	Preparation and characterization of layered LiNi0.9Co0.05Mn0.025Mg0.025O2 cathode material by a sol–gel method for lithium-ion batteries. *RSC Advances*, **2015**, 5, 40779-40784	3.7	11
21	Dual roles of iron powder on the synthesis of LiFePO4@C/graphene cathode a nanocomposite for high-performance lithium ion batteries. *RSC Advances*, **2015**, 5, 100018-100023	3.7	15
20	A three-dimensional porous LiFePO4 cathode material modified with a nitrogen-doped graphene aerogel for high-power lithium ion batteries. *Energy and Environmental Science*, **2015**, 8, 869-875	35.4	351
19	A three dimensional SiOx/C@RGO nanocomposite as a high energy anode material for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 3521-3527	13	112
18	Mesoporous carbon-coated LiFePO4 nanocrystals co-modified with graphene and Mg2+ doping as superior cathode materials for lithium ion batteries. *Nanoscale*, **2014**, 6, 986-95	7.7	119
17	Ultrafast preparation of three-dimensional porous tin–graphene composites with superior lithium ion storage. *Journal of Materials Chemistry A*, **2014**, 2, 12918	13	46
16	A three-dimensional multilayered SiO–graphene nanostructure as a superior anode material for lithium-ion batteries. *RSC Advances*, **2014**, 4, 36502-36506	3.7	2
15	Carbon-coated single-crystalline LiFePO4 nanocomposites for high-power Li-ion batteries: the impact of minimization of the precursor particle size. *RSC Advances*, **2014**, 4, 10067	3.7	28
14	Nitrogen-doped carbon coated SiO nanoparticles Co-modified with nitrogen-doped graphene as a superior anode material for lithium-ion batteries. *RSC Advances*, **2014**, 4, 35717-35725	3.7	5
13	Hydrogen evolution behavior of electrochemically active carbon modified with indium and its effects on the cycle performance of valve-regulated lead-acid batteries. *RSC Advances*, **2014**, 4, 44152-44157	3.7	14
12	The composite electrode of LiFePO4 cathode materials modified with exfoliated graphene from expanded graphite for high power Li-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 2822-2829	13	42
11	Growth of LiFePO4 nanoplatelets with orientated (010) facets on graphene for fast lithium storage. *Materials Letters*, **2014**, 118, 137-141	3.3	29
10	One-pot synthesis of SnS nanorods and their lithium storage properties. *Ionics*, **2014**, 20, 141-144	2.7	22
9	Preparation of SnO2–graphene from SnS–graphene oxide for enhanced reversible lithium ion storage. *Ionics*, **2013**, 19, 1223-1228	2.7	5
8	Corrosion resistance of nickel foam modified with electroless Ni–P alloy as positive current collector in a lithium ion battery. *RSC Advances*, **2013**, 3, 25648	3.7	12
7	Improvement of the electrochemical performance of carbon-coated LiFePO4 modified with reduced graphene oxide. *Journal of Materials Chemistry A*, **2013**, 1, 135-144	13	100
6	Preparation of Co3O4 nanoplate/graphene sheet composites and their synergistic electrochemical performance. *Ionics*, **2013**, 19, 215-220	2.7	24

5	Modified carbothermal synthesis and electrochemical performance of LiFePO4/C composite as cathode materials for lithium-ion batteries. *Ionics*, **2013**, 19, 245-252	2.7	8
4	Synthesis and characterization of sulfonated graphene as a highly active solid acid catalyst for the ester-exchange reaction. *Catalysis Science and Technology*, **2013**, 3, 1194	5.5	46
3	The synergy effect on Li storage of LiFePO4 with activated carbon modifications. *RSC Advances*, **2013**, 3, 20024	3.7	37
2	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	2.6	
1	3D Alk-MXene@Fe3O4 as Cathode Additive for Rechargeable Lithium–Sulfur Batteries. *Advanced Energy and Sustainability Research*,2100167	1.6	0