Huanan Duan

List of Publications by Year in Descending Order

70 papers	3,136 citations	29 h-index	55 g-index
72 ext. papers	3,696 ext. citations	7.3 avg, IF	5.37 L-index

#	Paper	IF	Citations
70	Increasing the electrochemical stability window for polyethylene-oxide-based solid polymer electrolytes by understanding the affecting factors. *Solid State Ionics*, **2022**, 375, 115837	3.3	1
69	High-capacity, low-tortuosity LiFePO4-Based composite cathode enabled by self-supporting structure combined with laser drilling technology. *Chemical Engineering Journal*, **2022**, 430, 132810	14.7	2
68	Improving Li/garnet interface by amorphous SnO2 interlayerdeposited via sol□gel method. *Materials Letters*, **2021**, 297, 129959	3.3	1
67	Ultrafast plasma immersion strategy for rational modulation of oxygen-containing and amino groups in graphitic carbon nitride. *Carbon*, **2020**, 159, 51-64	10.4	27
66	Intrinsic Lithiophilicity of Li□arnet Electrolytes Enabling High-Rate Lithium Cycling. *Advanced Functional Materials*, **2020**, 30, 1906189	15.6	56
65	MOF-derived 3D hollow porous carbon/graphene composites for advanced lithium-ion battery anodes. *Journal of Solid State Chemistry*, **2020**, 290, 121568	3.3	4
64	The stability of P2-layered sodium transition metal oxides in ambient atmospheres. *Nature Communications*, **2020**, 11, 3544	17.4	88
63	In-situ preparation of gel polymer electrolyte with glass fiber membrane for lithium batteries. *Journal of Power Sources*, **2020**, 472, 228627	8.9	18
62	Li/Garnet Interface Optimization: An Overview. *ACS Applied Materials & Interfaces*, **2020**, 12, 52271-52284	9.5	12
61	Electrodeposition behavior of lithium metal on carbon substrates with surface silvering. *Carbon*, **2019**, 152, 503-510	10.4	10
60	Graphene-Based Materials for Advanced Lithium-Ion Batteries **2019**, 197-218		
59	Air Stability of LLZO Electrolytes **2019**, 69-89		2
58	3D composites of ZnSnO3 nanoplates/reduced graphene oxide aerogels as an advanced lithium-ion battery anode. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 5299-5306	2.1	9
57	MOF-Derived Hollow Co3S4 Quasi-polyhedron/MWCNT Nanocomposites as Electrodes for Advanced Lithium Ion Batteries and Supercapacitors. *ACS Applied Energy Materials*, **2018**, 1, 402-410	6.1	49
56	Porous Co-C Core-Shell Nanocomposites Derived from Co-MOF-74 with Enhanced Electromagnetic Wave Absorption Performance. *ACS Applied Materials & Interfaces*, **2018**, 10, 11333-11342	9.5	240
55	Stability of garnet-type Li ion conductors: An overview. *Solid State Ionics*, **2018**, 318, 45-53	3.3	68
54	CoSe/Co nanoparticles wrapped by in situ grown N-doped graphitic carbon nanosheets as anode material for advanced lithium ion batteries. *Journal of Power Sources*, **2018**, 399, 223-230	8.9	45

53	Low-Weight 3D Al O Network as an Artificial Layer to Stabilize Lithium Deposition. *ChemSusChem*, **2018**, 11, 3243-3252	8.3	18
52	High-Coulombic-Efficiency Carbon/Li Clusters Composite Anode without Precycling or Prelithiation. *Small*, **2018**, 14, e1802226	11	15
51	Self-Healing Shape Memory PUPCL Copolymer with High Cycle Life. *Advanced Functional Materials*, **2018**, 28, 1704109	15.6	63
50	Oriented growth of Li metal for stable Li/carbon composite negative electrode. *Electrochimica Acta* , **2018**, 292, 227-233	6.7	11
49	Facile preparation of hierarchical titanium silicalite-1 (TS-1) with efficient oxidation of cyclic alkenes using PVA modified MWCNTs as templates. *Journal of Alloys and Compounds*, **2017**, 699, 386-391	5.7	18
48	Synthesis of Orthorhombic Perovskite-Type ZnSnO Single-Crystal Nanoplates and Their Application in Energy Harvesting. *ACS Applied Materials & Interfaces*, **2017**, 9, 8271-8279	9.5	64
47	Facile preparation of high-quality perovskites for efficient solar cells via a fast conversion of wet PbI2 precursor films. *RSC Advances*, **2017**, 7, 22492-22500	3.7	19
46	Li 3 PO 4 -added garnet-type Li 6.5 La 3 Zr 1.5 Ta 0.5 O 12 for Li-dendrite suppression. *Journal of Power Sources*, **2017**, 354, 68-73	8.9	111
45	Reaction mechanisms of lithium garnet pellets in ambient air: The effect of humidity and CO2. *Journal of the American Ceramic Society*, **2017**, 100, 2832-2839	3.8	108
44	Composition induced rhombohedral□tetragonal phase boundary and high piezoelectric activity in (K 0.48 ,Na 0.52) (Nb (1-x) Sb x)O 3 - 0.05Ca 0.2 (Bi 0.5 ,Na 0.5) 0.8 ZrO 3 lead-free piezoelectric ceramics. *Solid State Communications*, **2017**, 259, 29-33	1.6	13
43	Stabilization of Garnet/Liquid Electrolyte Interface Using Superbase Additives for Hybrid Li Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 21077-21082	9.5	65
42	Ternary oxide BaSnO3 nanoparticles as an efficient electron-transporting layer for planar perovskite solar cells. *Journal of Alloys and Compounds*, **2017**, 722, 196-206	5.7	19
41	Influence of sintering additives on Li+ conductivity and electrochemical property of perovskite-type Li3/8Sr7/16Hf1/4Ta3/4O3. *Electrochimica Acta*, **2017**, 234, 1-6	6.7	17
40	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. *Angewandte Chemie*, **2017**, 129, 771-774	3.6	66
39	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. *Angewandte Chemie - International Edition*, **2017**, 56, 753-756	16.4	341
38	A three dimensional sulfur/reduced graphene oxide with embedded carbon nanotubes composite as a binder-free, free-standing cathode for lithium□sulfur batteries. *RSC Advances*, **2017**, 7, 43483-43490	3.7	3
37	Fabricating fast triggered electro-active shape memory graphite/silver nanowires/epoxy resin composite from polymer template. *Scientific Reports*, **2017**, 7, 5535	4.9	21
36	In situ preparation of carbon/Fe 3 C composite nanofibers with excellent electromagnetic wave absorption properties. *Composites Part A: Applied Science and Manufacturing*, **2017**, 92, 33-41	8.4	58

35	Synthesis of hierarchical TS-1 zeolite via a novel three-step crystallization method and its excellent catalytic performance in oxidative desulfurization. *Fuel*, **2017**, 188, 232-238	7.1	48
34	Phase structure, microstructure, and piezoelectric properties of potassium-sodium niobate-based lead-free ceramics modified by Ca. *Journal of Alloys and Compounds*, **2017**, 693, 950-954	5.7	7
33	The effect of annealing on a 3D SnO2/graphene foam as an advanced lithium-ion battery anode. *Scientific Reports*, **2016**, 6, 19195	4.9	100
32	3D composites of layered MoS2 and graphene nanoribbons for high performance lithium-ion battery anodes. *Journal of Materials Chemistry A*, **2016**, 4, 13148-13154	13	42
31	Stretchable, strong and self-healing hydrogel by oxidized CNT-polymer composite. *Composites Part A: Applied Science and Manufacturing*, **2016**, 90, 250-260	8.4	18
30	Three dimensional Graphene aerogels as binder-less, freestanding, elastic and high-performance electrodes for lithium-ion batteries. *Scientific Reports*, **2016**, 6, 27365	4.9	45
29	A facile method to fabricate polyurethane based graphene foams/epoxy/carbon nanotubes composite for electro-active shape memory application. *Composites Part A: Applied Science and Manufacturing*, **2016**, 91, 292-300	8.4	31
28	Enhanced Photovoltaic Performance of Perovskite Solar Cells Using Polymer P(VDF-TrFE) as a Processed Additive. *Journal of Physical Chemistry C*, **2016**, 120, 12980-12988	3.8	62
27	Size-controlled synthesis of BiFeO3 nanoparticles by a facile and stable sol□gel method. *Journal of Materials Science: Materials in Electronics*, **2016**, 27, 10803-10809	2.1	5
26	Continuously enhanced photoactivity of hierarchical □Bi2O3/Bi2S3 heterostructure derived from novel BiO2CH3 octagonal nanoplates. *Applied Catalysis A: General*, **2016**, 514, 146-153	5.1	24
25	Ionic Conductivity and Air Stability of Al-Doped Li□La2ZrO□ Sintered in Alumina and Pt Crucibles. *ACS Applied Materials & Interfaces*, **2016**, 8, 5335-42	9.5	173
24	Facile preparation of highly cost-effective BaSO4@BiVO4 core-shell structured brilliant yellow pigment. *Dyes and Pigments*, **2016**, 128, 49-53	4.6	29
23	Phase transition and piezoelectric properties of dense (K0.48,Na0.52)0.95Li0.05SbxNb(1□)O3-0.03Ca0.5(Bi0.5,Na0.5)0.5ZrO3 lead free ceramics. *Journal of Alloys and Compounds*, **2016**, 664, 503-509	5.7	24
22	Multistep sintering to synthesize fast lithium garnets. *Journal of Power Sources*, **2016**, 302, 291-297	8.9	54
21	Oxygen vacancies induced self-assembling synthesis of V 4+ -BiVO 4 /rGO core-shell nanorods with enhanced water splitting efficiency and superior sewage purification capability. *Applied Catalysis A: General*, **2016**, 526, 105-112	5.1	11
20	A green method to prepare TiO2/MWCNT nanocomposites with high photocatalytic activity and insights into the effect of heat treatment on photocatalytic activity. *RSC Advances*, **2015**, 5, 13430-13436	3.7	19
19	Solvent-assisted growth of organic□inorganic hybrid perovskites with enhanced photovoltaic performances. *Solar Energy Materials and Solar Cells*, **2015**, 143, 360-368	6.4	14
18	Electro-active shape memory composites enhanced by flexible carbon nanotube/graphene aerogels. *Journal of Materials Chemistry A*, **2015**, 3, 11641-11649	13	71

17	In situ preparation of flower-like β-Ni(OH)2 and NiO from nickel formate with excellent capacitive properties as electrode materials for supercapacitors. *Materials Chemistry and Physics*, **2015**, 151, 160-166	4.4	27
16	Fabrication of ultralight three-dimensional graphene networks with strong electromagnetic wave absorption properties. *Journal of Materials Chemistry A*, **2015**, 3, 3739-3747	13	178
15	Facile synthesis of V(4+) self-doped, [010] oriented BiVO4 nanorods with highly efficient visible light-induced photocatalytic activity. *Physical Chemistry Chemical Physics*, **2014**, 16, 24519-26	3.6	110
14	Enhanced Photovoltaic Performance in Polycrystalline BiFeO3 Thin Film/ZnO Nanorod Heterojunctions. *Journal of Physical Chemistry C*, **2014**, 118, 15200-15206	3.8	25
13	Photoelectrochemical response and electronic structure analysis of mono-dispersed cuboid-shaped Bi2Fe4O9 crystals with near-infrared absorption. *RSC Advances*, **2014**, 4, 28209-28218	3.7	24
12	Photovoltaic effect of TiO2 thick films with an ultrathin BiFeO3 as buffer layer. *Applied Physics A: Materials Science and Processing*, **2014**, 117, 1301-1306	2.6	4
11	Synthesis and rate performance of Fe3O4-based Cu nanostructured electrodes for Li ion batteries. *Journal of Power Sources*, **2011**, 196, 4779-4784	8.9	38
10	Fabrication of Y-junction Metal Nanowires by AAO Template-assisted AC Electrodeposition. *Nano-Micro Letters*, **2010**, 2, 290-295	19.5	4
9	Growth morphology study of cathodically electrodeposited Fe3O4 thin films at elevated temperatures. *Materials Research Bulletin*, **2010**, 45, 1696-1702	5.1	14
8	The preparation of SnO2 film by electrodeposition. *Materials Research Bulletin*, **2010**, 45, 2006-2011	5.1	21
7	Synthetic hierarchical nanostructures: growth of carbon nanofibers on microfibers by chemical vapor deposition. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology* , **2010**, 166, 190-195	3.1	12
6	Fabrication of Y-junction Metal Nanowires by AAO Template-assisted AC Electrodeposition **2010**, 2, 290		1
5	The specific heat and effective thermal conductivity of composites containing single-wall and multi-wall carbon nanotubes. *Nanotechnology*, **2009**, 20, 245705	3.4	154
4	Fabrication of free-standing Cu nanorod arrays on Cu disc by template-assisted electrodeposition. *Nanotechnology*, **2008**, 19, 365306	3.4	19
3	Electrochemical preparation of nanostructured TiO2 as anode materials for Li ion batteries. *Materials Research Society Symposia Proceedings*, **2008**, 1127, 1		1
2	Fabrication and characterization of Fe3O4-based Cu nanostructured electrode for Li-ion battery. *Journal of Power Sources*, **2008**, 185, 512-518	8.9	64
1	High-Rate and Long-Life Au Nanorods/LiFePO4 Composite Cathode for Lithium-Ion Batteries. *Energy Technology*,2100841	3.5	1