

Huanan Duan

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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	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 753-756	16.4	341
69	Porous Co-C Core-Shell Nanocomposites Derived from Co-MOF-74 with Enhanced Electromagnetic Wave Absorption Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11333-11342	9.5	240
68	Fabrication of ultralight three-dimensional graphene networks with strong electromagnetic wave absorption properties. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3739-3747	13	178
67	Ionic Conductivity and Air Stability of Al-Doped Li _{1-x} La _x ZrO ₅ Sintered in Alumina and Pt Crucibles. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5335-42	9.5	173
66	The specific heat and effective thermal conductivity of composites containing single-wall and multi-wall carbon nanotubes. <i>Nanotechnology</i> , 2009 , 20, 245705	3.4	154
65	Li ₃ PO ₄ -added garnet-type Li _{6.5} La ₃ Zr _{1.5} Ta _{0.5} O ₁₂ for Li-dendrite suppression. <i>Journal of Power Sources</i> , 2017 , 354, 68-73	8.9	111
64	Facile synthesis of V(4+) self-doped, [010] oriented BiVO ₄ nanorods with highly efficient visible light-induced photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24519-26	3.6	110
63	Reaction mechanisms of lithium garnet pellets in ambient air: The effect of humidity and CO ₂ . <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2832-2839	3.8	108
62	The effect of annealing on a 3D SnO ₂ /graphene foam as an advanced lithium-ion battery anode. <i>Scientific Reports</i> , 2016 , 6, 19195	4.9	100
61	The stability of P2-layered sodium transition metal oxides in ambient atmospheres. <i>Nature Communications</i> , 2020 , 11, 3544	17.4	88
60	Electro-active shape memory composites enhanced by flexible carbon nanotube/graphene aerogels. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11641-11649	13	71
59	Stability of garnet-type Li ion conductors: An overview. <i>Solid State Ionics</i> , 2018 , 318, 45-53	3.3	68
58	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2017 , 129, 771-774	3.6	66
57	Stabilization of Garnet/Liquid Electrolyte Interface Using Superbase Additives for Hybrid Li Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21077-21082	9.5	65
56	Synthesis of Orthorhombic Perovskite-Type ZnSnO Single-Crystal Nanoplates and Their Application in Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8271-8279	9.5	64
55	Fabrication and characterization of Fe ₃ O ₄ -based Cu nanostructured electrode for Li-ion battery. <i>Journal of Power Sources</i> , 2008 , 185, 512-518	8.9	64
54	Self-Healing Shape Memory PUPCL Copolymer with High Cycle Life. <i>Advanced Functional Materials</i> , 2018 , 28, 1704109	15.6	63

53	Enhanced Photovoltaic Performance of Perovskite Solar Cells Using Polymer P(VDF-TrFE) as a Processed Additive. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 12980-12988	3.8	62
52	In situ preparation of carbon/Fe ₃ C composite nanofibers with excellent electromagnetic wave absorption properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017 , 92, 33-41	8.4	58
51	Intrinsic Lithiophilicity of Li Garnet Electrolytes Enabling High-Rate Lithium Cycling. <i>Advanced Functional Materials</i> , 2020 , 30, 1906189	15.6	56
50	Multistep sintering to synthesize fast lithium garnets. <i>Journal of Power Sources</i> , 2016 , 302, 291-297	8.9	54
49	MOF-Derived Hollow Co ₃ S ₄ Quasi-polyhedron/MWCNT Nanocomposites as Electrodes for Advanced Lithium Ion Batteries and Supercapacitors. <i>ACS Applied Energy Materials</i> , 2018 , 1, 402-410	6.1	49
48	Synthesis of hierarchical TS-1 zeolite via a novel three-step crystallization method and its excellent catalytic performance in oxidative desulfurization. <i>Fuel</i> , 2017 , 188, 232-238	7.1	48
47	Three dimensional Graphene aerogels as binder-less, freestanding, elastic and high-performance electrodes for lithium-ion batteries. <i>Scientific Reports</i> , 2016 , 6, 27365	4.9	45
46	CoSe/Co nanoparticles wrapped by in situ grown N-doped graphitic carbon nanosheets as anode material for advanced lithium ion batteries. <i>Journal of Power Sources</i> , 2018 , 399, 223-230	8.9	45
45	3D composites of layered MoS ₂ and graphene nanoribbons for high performance lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13148-13154	13	42
44	Synthesis and rate performance of Fe ₃ O ₄ -based Cu nanostructured electrodes for Li ion batteries. <i>Journal of Power Sources</i> , 2011 , 196, 4779-4784	8.9	38
43	A facile method to fabricate polyurethane based graphene foams/epoxy/carbon nanotubes composite for electro-active shape memory application. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 91, 292-300	8.4	31
42	Facile preparation of highly cost-effective BaSO ₄ @BiVO ₄ core-shell structured brilliant yellow pigment. <i>Dyes and Pigments</i> , 2016 , 128, 49-53	4.6	29
41	In situ preparation of flower-like Ni(OH) ₂ and NiO from nickel formate with excellent capacitive properties as electrode materials for supercapacitors. <i>Materials Chemistry and Physics</i> , 2015 , 151, 160-166	4.4	27
40	Ultrafast plasma immersion strategy for rational modulation of oxygen-containing and amino groups in graphitic carbon nitride. <i>Carbon</i> , 2020 , 159, 51-64	10.4	27
39	Enhanced Photovoltaic Performance in Polycrystalline BiFeO ₃ Thin Film/ZnO Nanorod Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 15200-15206	3.8	25
38	Continuously enhanced photoactivity of hierarchical Bi ₂ O ₃ /Bi ₂ S ₃ heterostructure derived from novel BiO ₂ CH ₃ octagonal nanoplates. <i>Applied Catalysis A: General</i> , 2016 , 514, 146-153	5.1	24
37	Phase transition and piezoelectric properties of dense (K _{0.48} ,Na _{0.52}) _{0.95} Li _{0.05} Sb _x Nb _(1-x) O ₃ -0.03Ca _{0.5} (Bi _{0.5} ,Na _{0.5}) _{0.5} ZrO ₃ lead free ceramics. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 503-509	5.7	24
36	Photoelectrochemical response and electronic structure analysis of mono-dispersed cuboid-shaped Bi ₂ Fe ₄ O ₉ crystals with near-infrared absorption. <i>RSC Advances</i> , 2014 , 4, 28209-28218	3.7	24

35	Fabricating fast triggered electro-active shape memory graphite/silver nanowires/epoxy resin composite from polymer template. <i>Scientific Reports</i> , 2017 , 7, 5535	4.9	21
34	The preparation of SnO ₂ film by electrodeposition. <i>Materials Research Bulletin</i> , 2010 , 45, 2006-2011	5.1	21
33	Facile preparation of high-quality perovskites for efficient solar cells via a fast conversion of wet PbI ₂ precursor films. <i>RSC Advances</i> , 2017 , 7, 22492-22500	3.7	19
32	Ternary oxide BaSnO ₃ nanoparticles as an efficient electron-transporting layer for planar perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2017 , 722, 196-206	5.7	19
31	A green method to prepare TiO ₂ /MWCNT nanocomposites with high photocatalytic activity and insights into the effect of heat treatment on photocatalytic activity. <i>RSC Advances</i> , 2015 , 5, 13430-13436	3.7	19
30	Fabrication of free-standing Cu nanorod arrays on Cu disc by template-assisted electrodeposition. <i>Nanotechnology</i> , 2008 , 19, 365306	3.4	19
29	Facile preparation of hierarchical titanium silicalite-1 (TS-1) with efficient oxidation of cyclic alkenes using PVA modified MWCNTs as templates. <i>Journal of Alloys and Compounds</i> , 2017 , 699, 386-391	5.7	18
28	Stretchable, strong and self-healing hydrogel by oxidized CNT-polymer composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 90, 250-260	8.4	18
27	Low-Weight 3D Al ₂ O ₃ Network as an Artificial Layer to Stabilize Lithium Deposition. <i>ChemSusChem</i> , 2018 , 11, 3243-3252	8.3	18
26	In-situ preparation of gel polymer electrolyte with glass fiber membrane for lithium batteries. <i>Journal of Power Sources</i> , 2020 , 472, 228627	8.9	18
25	Influence of sintering additives on Li ⁺ conductivity and electrochemical property of perovskite-type Li ₃ /8Sr ₇ /16Hf ₁ /4Ta ₃ /4O ₃ . <i>Electrochimica Acta</i> , 2017 , 234, 1-6	6.7	17
24	High-Coulombic-Efficiency Carbon/Li Clusters Composite Anode without Precycling or Prelithiation. <i>Small</i> , 2018 , 14, e1802226	11	15
23	Solvent-assisted growth of organic/inorganic hybrid perovskites with enhanced photovoltaic performances. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 360-368	6.4	14
22	Growth morphology study of cathodically electrodeposited Fe ₃ O ₄ thin films at elevated temperatures. <i>Materials Research Bulletin</i> , 2010 , 45, 1696-1702	5.1	14
21	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. <i>Solid State Communications</i> , 2017 , 259, 29-33	1.6	13
20	Synthetic hierarchical nanostructures: growth of carbon nanofibers on microfibers by chemical vapor deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 166, 190-195	3.1	12
19	Li/Garnet Interface Optimization: An Overview. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 52271-52284	5.2	12
18	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. <i>Applied Catalysis A: General</i> , 2016 , 526, 105-112	5.1	11

17	Oriented growth of Li metal for stable Li/carbon composite negative electrode. <i>Electrochimica Acta</i> , 2018 , 292, 227-233	6.7	11
16	Electrodeposition behavior of lithium metal on carbon substrates with surface silvering. <i>Carbon</i> , 2019 , 152, 503-510	10.4	10
15	3D composites of ZnSnO ₃ nanoplates/reduced graphene oxide aerogels as an advanced lithium-ion battery anode. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 5299-5306	2.1	9
14	Phase structure, microstructure, and piezoelectric properties of potassium-sodium niobate-based lead-free ceramics modified by Ca. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 950-954	5.7	7
13	Size-controlled synthesis of BiFeO ₃ nanoparticles by a facile and stable sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 10803-10809	2.1	5
12	Photovoltaic effect of TiO ₂ thick films with an ultrathin BiFeO ₃ as buffer layer. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 1301-1306	2.6	4
11	Fabrication of Y-junction Metal Nanowires by AAO Template-assisted AC Electrodeposition. <i>Nano-Micro Letters</i> , 2010 , 2, 290-295	19.5	4
10	MOF-derived 3D hollow porous carbon/graphene composites for advanced lithium-ion battery anodes. <i>Journal of Solid State Chemistry</i> , 2020 , 290, 121568	3.3	4
9	A three dimensional sulfur/reduced graphene oxide with embedded carbon nanotubes composite as a binder-free, free-standing cathode for lithium-sulfur batteries. <i>RSC Advances</i> , 2017 , 7, 43483-43490	3.7	3
8	High-capacity, low-tortuosity LiFePO ₄ -Based composite cathode enabled by self-supporting structure combined with laser drilling technology. <i>Chemical Engineering Journal</i> , 2022 , 430, 132810	14.7	2
7	Air Stability of LLZO Electrolytes 2019 , 69-89		2
6	Electrochemical preparation of nanostructured TiO ₂ as anode materials for Li ion batteries. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1127, 1		1
5	High-Rate and Long-Life Au Nanorods/LiFePO ₄ Composite Cathode for Lithium-Ion Batteries. <i>Energy Technology</i> , 2100841	3.5	1
4	Increasing the electrochemical stability window for polyethylene-oxide-based solid polymer electrolytes by understanding the affecting factors. <i>Solid State Ionics</i> , 2022 , 375, 115837	3.3	1
3	Fabrication of Y-junction Metal Nanowires by AAO Template-assisted AC Electrodeposition 2010 , 2, 290		1
2	Improving Li/garnet interface by amorphous SnO ₂ interlayer deposited via sol-gel method. <i>Materials Letters</i> , 2021 , 297, 129959	3.3	1
1	Graphene-Based Materials for Advanced Lithium-Ion Batteries 2019 , 197-218		