

Huanan Duan

List of Publications by Year in descending order

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papers

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citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 753-756. | 7.2 | 449 |
| 2 | 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. | 4.0 | 335 |
| 3 | Ionic Conductivity and Air Stability of Al-Doped $\text{Li}_{0.7}\text{La}_{0.3}\text{Zr}_{0.2}\text{O}_{12}$ Sintered in Alumina and Pt Crucibles. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5335-5342. | 4.0 | 229 |
| 4 | Fabrication of ultralight three-dimensional graphene networks with strong electromagnetic wave absorption properties. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3739-3747. | 5.2 | 219 |
| 5 | The stability of P2-layered sodium transition metal oxides in ambient atmospheres. <i>Nature Communications</i> , 2020, 11, 3544. | 5.8 | 204 |
| 6 | The specific heat and effective thermal conductivity of composites containing single-wall and multi-wall carbon nanotubes. <i>Nanotechnology</i> , 2009, 20, 245705. | 1.3 | 181 |
| 7 | 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. | 1.9 | 167 |
| 8 | 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. | 4.0 | 150 |
| 9 | 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, 24519-24526. | 1.3 | 134 |
| 10 | 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. | 1.6 | 112 |
| 11 | Intrinsic Lithiophilicity of Li-Garnet Electrolytes Enabling High-Rate Lithium Cycling. <i>Advanced Functional Materials</i> , 2020, 30, 1906189. | 7.8 | 107 |
| 12 | Synthesis of Orthorhombic Perovskite-Type ZnSnO ₃ Single-Crystal Nanoplates and Their Application in Energy Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8271-8279. | 4.0 | 105 |
| 13 | Stability of garnet-type Li ion conductors: An overview. <i>Solid State Ionics</i> , 2018, 318, 45-53. | 1.3 | 91 |
| 14 | Stabilization of Garnet/Liquid Electrolyte Interface Using Superbase Additives for Hybrid Li Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 21077-21082. | 4.0 | 88 |
| 15 | Self-Healing Shape Memory PUPCL Copolymer with High Cycle Life. <i>Advanced Functional Materials</i> , 2018, 28, 1704109. | 7.8 | 87 |
| 16 | Electro-active shape memory composites enhanced by flexible carbon nanotube/graphene aerogels. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11641-11649. | 5.2 | 85 |
| 17 | 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. | 1.5 | 81 |
| 18 | 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. | 3.8 | 75 |

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|----|--|-----|-----------|
| 19 | Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-ion Batteries. <i>Angewandte Chemie</i> , 2017, 129, 771-774. | 1.6 | 72 |
| 20 | 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. | 4.0 | 70 |
| 21 | MOF-Derived Hollow Co_3S_4 Quasi-polyhedron/MWCNT Nanocomposites as Electrodes for Advanced Lithium Ion Batteries and Supercapacitors. <i>ACS Applied Energy Materials</i> , 2018, 1, 402-410. | 2.5 | 69 |
| 22 | Multistep sintering to synthesize fast lithium garnets. <i>Journal of Power Sources</i> , 2016, 302, 291-297. | 4.0 | 68 |
| 23 | Fabrication and characterization of Fe_3O_4 -based Cu nanostructured electrode for Li-ion battery. <i>Journal of Power Sources</i> , 2008, 185, 512-518. | 4.0 | 66 |
| 24 | 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. | 3.4 | 65 |
| 25 | Three dimensional Graphene aerogels as binder-less, freestanding, elastic and high-performance electrodes for lithium-ion batteries. <i>Scientific Reports</i> , 2016, 6, 27365. | 1.6 | 49 |
| 26 | 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. | 5.2 | 47 |
| 27 | 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. | 3.8 | 43 |
| 28 | Ultrafast plasma immersion strategy for rational modulation of oxygen-containing and amino groups in graphitic carbon nitride. <i>Carbon</i> , 2020, 159, 51-64. | 5.4 | 43 |
| 29 | Synthesis and rate performance of Fe_3O_4 -based Cu nanostructured electrodes for Li ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 4779-4784. | 4.0 | 38 |
| 30 | In-situ preparation of gel polymer electrolyte with glass fiber membrane for lithium batteries. <i>Journal of Power Sources</i> , 2020, 472, 228627. | 4.0 | 38 |
| 31 | Enhanced Photovoltaic Performance in Polycrystalline BiFeO_3 Thin Film/ ZnO Nanorod Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15200-15206. | 1.5 | 35 |
| 32 | 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. | 2.0 | 34 |
| 33 | In situ preparation of flower-like $\text{Ni}(\text{OH})_2$ and NiO from nickel formate with excellent capacitive properties as electrode materials for supercapacitors. <i>Materials Chemistry and Physics</i> , 2015, 151, 160-166. | 2.0 | 33 |
| 34 | 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. | 2.8 | 32 |
| 35 | High-Coulombic Efficiency Carbon/Li Clusters Composite Anode without Precycling or Prelithiation. <i>Small</i> , 2018, 14, e1802226. | 5.2 | 31 |
| 36 | The preparation of SnO_2 film by electrodeposition. <i>Materials Research Bulletin</i> , 2010, 45, 2006-2011. | 2.7 | 30 |

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|----|--|-----|-----------|
| 37 | Photoelectrochemical response and electronic structure analysis of mono-dispersed cuboid-shaped $\text{Bi}_2\text{Fe}_4\text{O}_9$ crystals with near-infrared absorption. <i>RSC Advances</i> , 2014, 4, 28209-28218. | 1.7 | 29 |
| 38 | Phase transition and piezoelectric properties of dense $(\text{K}_{0.48}\text{Na}_{0.52})_{0.95}\text{Li}_{0.05}\text{SbNb}(\text{O}_3-0.03\text{Ca}_{0.5}(\text{Bi}_{0.5}\text{Na}_{0.5})_{0.5}\text{ZrO}_3$ lead free ceramics. <i>Journal of Alloys and Compounds</i> , 2016, 664, 503-509. | 2.8 | 28 |
| 39 | Li/Garnet Interface Optimization: An Overview. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52271-52284. | 4.0 | 27 |
| 40 | Continuously enhanced photoactivity of hierarchical $\text{Bi}_2\text{O}_3/\text{Bi}_2\text{S}_3$ heterostructure derived from novel BiO_2CH_3 octagonal nanoplates. <i>Applied Catalysis A: General</i> , 2016, 514, 146-153. | 2.2 | 26 |
| 41 | Fabricating fast triggered electro-active shape memory graphite/silver nanowires/epoxy resin composite from polymer template. <i>Scientific Reports</i> , 2017, 7, 5535. | 1.6 | 26 |
| 42 | Stretchable, strong and self-healing hydrogel by oxidized CNT-polymer composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 90, 250-260. | 3.8 | 25 |
| 43 | Fabrication of free-standing Cu nanorod arrays on Cu disc by template-assisted electrodeposition. <i>Nanotechnology</i> , 2008, 19, 365306. | 1.3 | 24 |
| 44 | Low-weight 3D Al_2O_3 Network as an Artificial Layer to Stabilize Lithium Deposition. <i>ChemSusChem</i> , 2018, 11, 3243-3252. | 3.6 | 24 |
| 45 | 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. | 2.8 | 23 |
| 46 | Influence of sintering additives on Li + conductivity and electrochemical property of perovskite-type $\text{Li}_{3/8}\text{Sr}_{7/16}\text{Hf}_{1/4}\text{Ta}_{3/4}\text{O}_3$. <i>Electrochimica Acta</i> , 2017, 234, 1-6. | 2.6 | 21 |
| 47 | A rational design of garnet-type $\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}$ with ultrahigh moisture stability. <i>Energy Storage Materials</i> , 2022, 49, 278-290. | 9.5 | 21 |
| 48 | A green method to prepare $\text{TiO}_2/\text{MWCNT}$ nanocomposites with high photocatalytic activity and insights into the effect of heat treatment on photocatalytic activity. <i>RSC Advances</i> , 2015, 5, 13430-13436. | 1.7 | 20 |
| 49 | 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. | 1.7 | 20 |
| 50 | Oriented growth of Li metal for stable Li/carbon composite negative electrode. <i>Electrochimica Acta</i> , 2018, 292, 227-233. | 2.6 | 20 |
| 51 | Composition induced rhombohedral-tetragonal phase boundary and high piezoelectric activity in $(\text{K})_{1-x}(\text{Tl})_x\text{ETQq}_1$. <i>Solid State Communications</i> , 2017, 259, 29-33. | 0.9 | 16 |
| 52 | Electrodeposition behavior of lithium metal on carbon substrates with surface silvering. <i>Carbon</i> , 2019, 152, 503-510. | 5.4 | 16 |
| 53 | Growth morphology study of cathodically electrodeposited Fe_3O_4 thin films at elevated temperatures. <i>Materials Research Bulletin</i> , 2010, 45, 1696-1702. | 2.7 | 15 |
| 54 | MOF-derived 3D hollow porous carbon/graphene composites for advanced lithium-ion battery anodes. <i>Journal of Solid State Chemistry</i> , 2020, 290, 121568. | 1.4 | 15 |

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|----|---|------|-----------|
| 55 | 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. | 1.7 | 14 |
| 56 | Solvent-assisted growth of organic-inorganic hybrid perovskites with enhanced photovoltaic performances. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 360-368. | 3.0 | 14 |
| 57 | 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. | 2.2 | 12 |
| 58 | 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. | 1.1 | 12 |
| 59 | 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. | 6.6 | 12 |
| 60 | 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. | 1.3 | 11 |
| 61 | 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. | 2.8 | 10 |
| 62 | 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. | 1.1 | 6 |
| 63 | Fabrication of Y-junction Metal Nanowires by AAO Template-assisted AC Electrodeposition. <i>Nano-Micro Letters</i> , 2010, 2, 290-295. | 14.4 | 5 |
| 64 | 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. | 1.7 | 5 |
| 65 | High-rate and long-life Au nanorods/LiFePO ₄ Composite Cathode for Lithium-ion Batteries. <i>Energy Technology</i> , 0, , 2100841. | 1.8 | 5 |
| 66 | Enhanced performance of flexible quasi-solid-state lithium batteries with high-loading cathode enabled by laser drilling. <i>Journal of Power Sources</i> , 2022, 542, 231782. | 4.0 | 5 |
| 67 | 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. | 1.1 | 4 |
| 68 | Improving Li/garnet interface by amorphous SnO ₂ interlayer deposited via sol-gel method. <i>Materials Letters</i> , 2021, 297, 129959. | 1.3 | 4 |
| 69 | Air Stability of LLZO Electrolytes. , 2019, , 69-89. | | 2 |
| 70 | Electrochemical preparation of nanostructured TiO ₂ as anode materials for Li ion batteries. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1127, 1. | 0.1 | 1 |
| 71 | Fabrication of Y-junction metal nanowires by AAO template-assisted AC electrodeposition. <i>Nano-Micro Letters</i> , 2011, 2, 290. | 14.4 | 1 |