

Hai-Zhu Sun

List of Publications by Year in descending order

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papers

3,547
citations

109137

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155451

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docs citations

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times ranked

5725
citing authors

#	ARTICLE	IF	CITATIONS
1	Controllable Synthesis of Stable Urchin-like Gold Nanoparticles Using Hydroquinone to Tune the Reactivity of Gold Chloride. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3630-3637.	1.5	196
2	In Situ Binding Sb Nanospheres on Graphene via Oxygen Bonds as Superior Anode for Ultrafast Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7790-7799.	4.0	167
3	Simple Synthesis of Highly Luminescent Water-Soluble CdTe Quantum Dots with Controllable Surface Functionality. <i>Chemistry of Materials</i> , 2011, 23, 4857-4862.	3.2	124
4	High-Performance and Low-Temperature Lithium-Sulfur Batteries: Synergism of Thermodynamic and Kinetic Regulation. <i>Advanced Energy Materials</i> , 2018, 8, 1703638.	10.2	124
5	A cationic iridium(III) complex with aggregation-induced emission (AIE) properties for highly selective detection of explosives. <i>Chemical Communications</i> , 2014, 50, 6031-6034.	2.2	115
6	Hydroxyl decorated g-C ₃ N ₄ nanoparticles with narrowed bandgap for high efficient photocatalyst design. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 262-271.	10.8	109
7	Shale-like Co ₃ O ₄ for high performance lithium/sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8242-8248.	5.2	108
8	Controllable synthesis of iridium(III)-based aggregation-induced emission and/or piezochromic luminescence phosphors by simply adjusting the substitution on ancillary ligands. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1440.	2.7	107
9	Dual-Porosity SiO ₂ /C Nanocomposite with Enhanced Lithium Storage Performance. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3495-3501.	1.5	105
10	The Effective Design of a Polysulfide-Trapped Separator at the Molecular Level for High Energy Density Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16108-16115.	4.0	103
11	3D porous ZnO/Sn heterojunction for visible light driven photocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16576-16585.	1.3	86
12	Iridium(III) complexes adopting 1,2-diphenyl-1H-benzimidazole ligands for highly efficient organic light-emitting diodes with low efficiency roll-off and non-doped feature. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2150.	2.7	78
13	Nanoscale Polysulfides Reactors Achieved by Chemical Au-S Interaction: Improving the Performance of Li-S Batteries on the Electrode Level. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27959-27967.	4.0	65
14	Target construction of ultrathin graphitic carbon encapsulated FeS hierarchical microspheres featuring superior low-temperature lithium/sodium storage properties. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7997-8005.	5.2	62
15	Co ₃ O ₄ Nanospheres Embedded in a Nitrogen-Doped Carbon Framework: An Electrode with Fast Surface-Controlled Redox Kinetics for Lithium Storage. <i>ACS Energy Letters</i> , 2017, 2, 52-59.	8.8	61
16	Oxygen-Deficient Titanium Dioxide Nanosheets as More Effective Polysulfide Reservoirs for Lithium-Sulfur Batteries. <i>Chemistry - A European Journal</i> , 2017, 23, 9666-9673.	1.7	60
17	The effects of composition and surface chemistry on the toxicity of quantum dots. <i>Journal of Materials Chemistry B</i> , 2013, 1, 6485.	2.9	59
18	A Novel Layered Sedimentary Rocks Structure of the Oxygen-Enriched Carbon for Ultrahigh-Rate-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4233-4241.	4.0	58

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19	Anchoring Black Phosphorus Nanoparticles onto ZnS Porous Nanosheets: Efficient Photocatalyst Design and Charge Carrier Dynamics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8157-8167.	4.0	53
20	An orange iridium(III) complex with wide-bandwidth in electroluminescence for fabrication of high-quality white organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 7371.	2.7	52
21	Synergistic mediation of sulfur conversion in lithium-sulfur batteries by a Gerber tree-like interlayer with multiple components. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11255-11262.	5.2	49
22	Highly Regio- and Stereoselective Intermolecular Seleno- and Thioamination of Alkynes. <i>Chemistry - A European Journal</i> , 2016, 22, 3513-3518.	1.7	48
23	Effect of alkyl chain length on piezochromic luminescence of iridium(III)-based phosphors adopting 2-phenyl-1H-benzimidazole type ligands. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7648-7655.	2.7	47
24	A vertical and cross-linked Ni(OH) ₂ network on cellulose-fiber covered with graphene as a binder-free electrode for advanced asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19077-19084.	5.2	47
25	Carbon/Binder-Free NiO@NiO/NF with In Situ Formed Interlayer for High-Areal-Capacity Lithium Storage. <i>Advanced Energy Materials</i> , 2019, 9, 1803690.	10.2	44
26	Assembly of MnCO ₃ nanoplatelets synthesized at low temperature on graphene to achieve anode materials with high rate performance for lithium-ion batteries. <i>Electrochimica Acta</i> , 2016, 215, 267-275.	2.6	43
27	Egg yolk-derived carbon: Achieving excellent fluorescent carbon dots and high performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 746, 567-575.	2.8	42
28	Full Protection for Graphene-Incorporated Micro-/Nanocomposites Containing Ultra-small Active Nanoparticles: the Best Li-Storage Properties. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 1020-1027.	1.2	41
29	Efficient non-doped phosphorescent orange, blue and white organic light-emitting devices. <i>Scientific Reports</i> , 2014, 4, 6754.	1.6	40
30	Rational molecular design of aggregation-induced emission cationic Ir(III) phosphors achieving supersensitive and selective detection of nitroaromatic explosives. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10847-10854.	2.7	40
31	Layered g-C ₃ N ₄ @Reduced Graphene Oxide Composites as Anodes with Improved Rate Performance for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30330-30336.	4.0	40
32	A novel approach to prepare Si/C nanocomposites with yolk-shell structures for lithium ion batteries. <i>RSC Advances</i> , 2014, 4, 36218-36225.	1.7	37
33	Simultaneous modification of N-alkyl chains on cyclometalated and ancillary ligands of cationic iridium(III) complexes towards efficient piezochromic luminescence properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 2341-2349.	2.7	37
34	Porous Carbon with Willow-Leaf-Shaped Pores for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42699-42707.	4.0	36
35	Co-catalyst-free ZnS-SnS ₂ porous nanosheets for clean and recyclable photocatalytic H ₂ generation. <i>Journal of Alloys and Compounds</i> , 2018, 753, 60-67.	2.8	36
36	White-light emission nanofibers obtained from assembling aqueous single-colored CdTe NCs into a PPV precursor and PVA matrix. <i>Journal of Materials Chemistry</i> , 2009, 19, 6740.	6.7	35

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37	Tailoring Coral-Like Fe ₇ Se ₈ @C for Superior Low-Temperature Li/Na-Ion Half/Full Batteries: Synthesis, Structure, and DFT Studies. ACS Applied Materials & Interfaces, 2019, 11, 47886-47893.	4.0	35
38	Carbon Dots-Implanted Graphitic Carbon Nitride Nanosheets for Photocatalysis: Simultaneously Manipulating Carrier Transport in Inter- and Intralayers. Solar Rrl, 2020, 4, 1900517.	3.1	35
39	Modification of iridium(III) complexes for fabrication of high-performance non-doped organic light-emitting diode. Dyes and Pigments, 2015, 112, 8-16.	2.0	32
40	Self-Assembly of CdTe Nanoparticles into Dendrite Structure: A Microsensor to Hg ²⁺ . Langmuir, 2011, 27, 1136-1142.	1.6	30
41	Achieving High Performances of Nondoped OLEDs Using Carbazole and Diphenylphosphoryl-Functionalized Ir(III) Complexes as Active Components. Inorganic Chemistry, 2017, 56, 9979-9987.	1.9	30
42	Decoration of up-converting NaYF ₄ :Yb,Er(Tm) nanoparticles with surfactant bilayer. A versatile strategy to perform oil-to-water phase transfer and subsequently surface silication. CrystEngComm, 2012, 14, 3484.	1.3	29
43	Synergistic Design of Cathode Region for the High-Energy-Density Li-S Batteries. ACS Applied Materials & Interfaces, 2016, 8, 28689-28699.	4.0	29
44	Enhancing the luminescence properties and stability of cationic iridium(III) complexes based on phenylbenzimidazole ligand: a combined experimental and theoretical study. Dalton Transactions, 2013, 42, 11056.	1.6	28
45	Colloidal synthesis of marcasite FeS ₂ nanoparticles with improved electrochemical performance. RSC Advances, 2015, 5, 98967-98970.	1.7	28
46	A simple strategy to achieve remarkable mechanochromism of cationic Ir(III) phosphors through subtle ligand modification. Journal of Materials Chemistry C, 2018, 6, 11686-11693.	2.7	28
47	Aggregation-induced emission (AIE) active iridium complexes toward highly efficient single-layer non-doped electroluminescent devices. Journal of Materials Chemistry C, 2016, 4, 10464-10470.	2.7	27
48	Coordinatable and High Charge-Carrier-Mobility Water-Soluble Conjugated Copolymers for Effective Aqueous-Processed Polymer-Nanocrystal Hybrid Solar Cells and OFET Applications. Advanced Functional Materials, 2013, 23, 4035-4042.	7.8	26
49	Carbon-Free Porous Zn ₂ GeO ₄ Nanofibers as Advanced Anode Materials for High-Performance Lithium Ion Batteries. ACS Applied Materials & Interfaces, 2016, 8, 31722-31728.	4.0	26
50	Fabrication of boron-doped porous carbon with termite nest shape via natural macromolecule and borax to obtain lithium-sulfur/sodium-ion batteries with improved rate performance. Electrochimica Acta, 2017, 244, 86-95.	2.6	26
51	Chelation Competition Induced Polymerization (CCIP): A Binding Energy Based Strategy for Nonspherical Polymer Nanocontainers™ Fabrication. Chemistry of Materials, 2017, 29, 6536-6543.	3.2	25
52	Polypyrrole-coated flower-like Pd nanoparticles (Pd NPs@PPy) with enhanced stability and heat conversion efficiency for cancer photothermal therapy. RSC Advances, 2016, 6, 15854-15860.	1.7	24
53	Ir(III) Phosphors Modified with Fluorine Atoms in Pyridine-1,2,4-triazolyl Ligands for Efficient OLEDs Possessing Low-Efficiency Roll-off. Organometallics, 2016, 35, 3870-3877.	1.1	23
54	Aqueous-Processed Insulating Polymer/Nanocrystal Hybrid Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 7101-7110.	4.0	23

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55	Influence of alkyl chain lengths on the properties of iridium(III)-based piezochromic luminescent dyes with triazole-pyridine type ancillary ligands. <i>Dyes and Pigments</i> , 2013, 99, 1082-1090.	2.0	22
56	Flexible paper electrodes constructed from Zn ₂ GeO ₄ nanofibers anchored with amorphous carbon for advanced lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2055-2059.	5.2	21
57	Simple molecular structure design of iridium(III) complexes: Achieving highly efficient non-doped devices with low efficiency roll-off. <i>Organic Electronics</i> , 2016, 35, 142-150.	1.4	20
58	Fabrication of functionalized polysulfide reservoirs from large graphene sheets to improve the electrochemical performance of lithium-sulfur batteries. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23481-23488.	1.3	19
59	Di-/trinuclear cationic Ir(III) complexes: Design, synthesis and application for highly sensitive and selective detection of TNP in aqueous solution. <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 314-322.	4.0	19
60	Target encapsulating NiMoO ₄ nanocrystals into 1D carbon nanofibers as free-standing anode material for lithium-ion batteries with enhanced cycle performance. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154648.	2.8	19
61	In-situ formation of nanosized 1T-phase MoS ₂ in B-doped carbon nitride for high efficient visible-light-driven H ₂ production. <i>Journal of Colloid and Interface Science</i> , 2022, 614, 92-101.	5.0	19
62	Gold nanoparticle superstructures with enhanced photothermal effect. <i>CrystEngComm</i> , 2013, 15, 3490.	1.3	18
63	Alkali-Metal-Functionalized Graphene Oxide as a Superior Anode Material for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2016, 22, 8152-8157.	1.7	18
64	A sulfur-free iridium(III) complex for highly selective and multi-signaling mercury(II)-chemosensors. <i>Dalton Transactions</i> , 2015, 44, 19997-20003.	1.6	17
65	Aqueous-Processed Polymer/Nanocrystal Hybrid Solar Cells with Double-Side Bulk Heterojunction. <i>Advanced Energy Materials</i> , 2018, 8, 1701966.	10.2	17
66	Copper-Catalyzed Azidative Multifunctionalization of Alkynes. <i>Journal of Organic Chemistry</i> , 2017, 82, 12813-12820.	1.7	16
67	Hollow Pd Nanospheres Conjugated with Ce6 To Simultaneously Realize Photodynamic and Photothermal Therapy. <i>ACS Applied Bio Materials</i> , 2018, 1, 1102-1108.	2.3	16
68	Construction of electrical "highway" to significantly enhance the redox kinetics of normal hierarchical structured materials of MnO. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1663-1670.	5.2	15
69	N-doped Porous Host with Lithiophilic Co Nanoparticles Implanted into 3D Carbon Nanotubes for Dendrite-Free Lithium Metal Anodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 12871-12881.	2.5	14
70	Aqueous-Processed Polymer/Nanocrystal Hybrid Solar Cells with Efficiency of 5.64%: The Impact of Device Structure, Polymer Content, and Film Thickness. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2025-2034.	1.5	13
71	Molecular Engineering of Phenylbenzimidazole-Based Orange Ir(III) Phosphors toward High-Performance White OLEDs. <i>Inorganic Chemistry</i> , 2018, 57, 6029-6037.	1.9	12
72	Micro/Nanoengineered Fe ₂ O ₃ Nanoaggregate Conformably Enclosed by Ultrathin N-Doped Carbon Shell for Ultrastable Lithium Storage and Insight into Phase Evolution Mechanism. <i>Chemistry - A European Journal</i> , 2020, 26, 853-862.	1.7	12

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73	Regulating Li nucleation/growth via implanting lithiophilic seeds onto flexible scaffolds enables highly stable Li metal anode. <i>Journal of Colloid and Interface Science</i> , 2022, 609, 606-616.	5.0	12
74	Preparation of Carbazole-Containing Amphiphilic Copolymers: An Efficient Method for the Incorporation of Functional Nanocrystals. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 929-936.	1.7	11
75	The Influence of Surface Modification on the Photoluminescence of CdTe Quantum Dots: Realization of Bio-imaging via Cost-Effective Polymer. <i>ChemPhysChem</i> , 2015, 16, 3687-3694.	1.0	11
76	Design and synthesis of dodecahedral carbon nanocages incorporated with Fe ₃ O ₄ . <i>RSC Advances</i> , 2017, 7, 13257-13262.	1.7	10
77	<i>In Situ</i> Growth of 3D Lamellar Mn(OH) ₂ on CuO-Coated Carbon Cloth for Flexible Asymmetric Supercapacitors with a High Working Voltage of 2.4 V. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 13385-13394.	3.2	10
78	Manipulating phosphorescence efficiencies of orange iridium(III) complexes through ancillary ligand control. <i>Dyes and Pigments</i> , 2019, 160, 119-127.	2.0	9
79	Hierarchically Porous Carbon Derived from a Large-Scale Iron-Based Organometallic Complex for Versatile Energy Storage. <i>ChemSusChem</i> , 2016, 9, 1483-1489.	3.6	8
80	Micron-scaled MoS ₂ /N-C particles with embedded nano-MoS ₂ : A high-rate anode material for enhanced lithium storage. <i>Applied Surface Science</i> , 2019, 486, 519-526.	3.1	8
81	High-Performance and Stable Warm White OLEDs Based on Orange Iridium(III) Phosphors Modified with Simple Alkyl Groups. <i>Organometallics</i> , 2020, 39, 3384-3393.	1.1	8
82	Robust Electrodes for Flexible Energy Storage Devices Based on Bimetallic Encapsulated Core-Multishell Structures. <i>Advanced Science</i> , 2021, 8, e2100911.	5.6	8
83	A Pore-Forming Strategy Toward Porous Carbon-Based Substrates for High Performance Flexible Lithium Metal Full Batteries. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	8
84	Low efficiency roll-off and high performance OLEDs employing alkyl group modified iridium(III) complexes as emitters. <i>RSC Advances</i> , 2016, 6, 111556-111563.	1.7	7
85	Sustainable and Robust Graphene Cellulose Paper Decorated with Lithiophilic Au Nanoparticles to Enable Dendrite-free and High-Power Lithium Metal Anode. <i>Chemistry - A European Journal</i> , 2021, 27, 8168-8177.	1.7	7
86	Pseudocapacitive sodium storage in a new brand foveolate TiO ₂ @MoSe ₂ nanocomposite for high-performance Na-ion hybrid capacitors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24419-24425.	5.2	7
87	Hierarchical manipulation of uniform multi-nanoparticles by electrochemical coupling assembly. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5214-5219.	2.7	6
88	Highly Efficient Aqueous-Processed Hybrid Solar Cells: Control Depletion Region and Improve Carrier Extraction. <i>Advanced Energy Materials</i> , 2019, 9, 1803849.	10.2	6
89	<i>In situ</i> chemically encapsulated and controlled SnS ₂ nanocrystal composites for durable lithium/sodium-ion batteries. <i>Dalton Transactions</i> , 2020, 49, 15874-15882.	1.6	6
90	Towards an efficient blue emission cationic Ir(III) complex with azole-type ancillary ligands: a joint theoretical and experimental study. <i>New Journal of Chemistry</i> , 2016, 40, 4635-4642.	1.4	5

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91	Preparation of ligand free Au NPs/PPV composites with high stability and photo-electric response. Chinese Journal of Polymer Science (English Edition), 2015, 33, 215-223.	2.0	4
92	Boron-doped Sb/SbO ₂ @rGO composites with tunable components and enlarged lattice spacing for high-rate sodium-ion batteries. Journal Physics D: Applied Physics, 2021, 54, 315505.	1.3	4
93	Manipulating Depletion Region of Aqueous-Processed Nanocrystals Solar Cells with Widened Fermi Level Offset. Small, 2018, 14, e1803072.	5.2	3
94	Manipulating charge carrier transporting of disubstituted phenylbenzimidazole-based host materials for efficient full-color PhOLEDs. Organic Electronics, 2020, 77, 105513.	1.4	3
95	Synthesis and Characterization of CdTe Nanoparticle/Polymer Functional Composites. Journal of Nanoscience and Nanotechnology, 2009, 9, 7374-8.	0.9	1