

Wenxiao Huang

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

2,471
citations

331670

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h-index

501196

28
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all docs

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docs citations

30
times ranked

3462
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular design for electrolyte solvents enabling energy-dense and long-cycling lithium metal batteries. <i>Nature Energy</i> , 2020, 5, 526-533.	39.5	642
2	Free-standing ultrathin lithium metal-graphene oxide host foils with controllable thickness for lithium batteries. <i>Nature Energy</i> , 2021, 6, 790-798.	39.5	198
3	Metallic 1T phase MoS ₂ nanosheets for high-performance thermoelectric energy harvesting. <i>Nano Energy</i> , 2016, 26, 172-179.	16.0	178
4	Ultralight and fire-extinguishing current collectors for high-energy and high-safety lithium-ion batteries. <i>Nature Energy</i> , 2020, 5, 786-793.	39.5	168
5	Flexible n-type thermoelectric films based on Cu-doped Bi ₂ Se ₃ nanoplate and Polyvinylidene Fluoride composite with decoupled Seebeck coefficient and electrical conductivity. <i>Nano Energy</i> , 2015, 18, 306-314.	16.0	119
6	A Review of Existing and Emerging Methods for Lithium Detection and Characterization in Li-Ion and Li-Metal Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2100372.	19.5	114
7	Dynamic spatial progression of isolated lithium during battery operations. <i>Nature</i> , 2021, 600, 659-663.	27.8	111
8	Unravelling Degradation Mechanisms and Atomic Structure of Organic-Inorganic Halide Perovskites by Cryo-EM. <i>Joule</i> , 2019, 3, 2854-2866.	24.0	99
9	Enhanced stabilization of inorganic cesium lead triiodide (CsPbI ₃) perovskite quantum dots with tri-octylphosphine. <i>Nano Research</i> , 2018, 11, 762-768.	10.4	94
10	Integrated cooling (i-Cool) textile of heat conduction and sweat transportation for personal perspiration management. <i>Nature Communications</i> , 2021, 12, 6122.	12.8	86
11	Electrode Design with Integration of High Tortuosity and Sulfur-Philicity for High-Performance Lithium-Sulfur Battery. <i>Matter</i> , 2020, 2, 1605-1620.	10.0	83
12	A Morphologically Stable Li/Electrolyte Interface for All-Solid-State Batteries Enabled by 3D-Micropatterned Garnet. <i>Advanced Materials</i> , 2021, 33, e2104009.	21.0	76
13	Evaluation of methods to extract parameters from current-voltage characteristics of solar cells. <i>Solar Energy</i> , 2013, 90, 51-57.	6.1	69
14	Wearable Thermoelectric Devices Based on Au-Decorated Two-Dimensional MoS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33316-33321.	8.0	57
15	Microclusters of Kinked Silicon Nanowires Synthesized by a Recyclable Iodide Process for High-Performance Lithium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2020, 10, 2002108.	19.5	57
16	Thickness dependence of the MoO ₃ blocking layers on ZnO nanorod-inverted organic photovoltaic devices. <i>Applied Physics Letters</i> , 2011, 98, 103305.	3.3	47
17	Efficient Lithium Metal Cycling over a Wide Range of Pressures from an Anion-Derived Solid-Electrolyte Interphase Framework. <i>ACS Energy Letters</i> , 2021, 6, 816-825.	17.4	46
18	Solution-Processable Hole-Generation Layer and Electron-Transporting Layer: Towards High-Performance, Alternating-Current-Driven, Field-Induced Polymer Electroluminescent Devices. <i>Advanced Functional Materials</i> , 2014, 24, 2677-2688.	14.9	37

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19	Electrolyte-Resistant Dual Materials for the Synergistic Safety Enhancement of Lithium-Ion Batteries. Nano Letters, 2021, 21, 2074-2080.	9.1	37
20	Hydrazine-Free Surface Modification of CZTSe Nanocrystals with All-Inorganic Ligand. Journal of Physical Chemistry C, 2014, 118, 30302-30308.	3.1	24
21	Cu ₂ ZnSnS ₄ and Cu ₂ ZnSnS ₄ Se ₄ : First principles simulations of optimal alloy configurations and their energies. Journal of Applied Physics, 2014, 115, .	2.5	22
22	Spectral response of fiber-based organic photovoltaics. Solar Energy Materials and Solar Cells, 2012, 98, 273-276.	6.2	21
23	Aluminium nanoparticles synthesized by a novel wet chemical method and used to enhance the performance of polymer solar cells by the plasmonic effect. Journal of Materials Chemistry C, 2015, 3, 4099-4103.	5.5	20
24	Surface modification enabled carrier mobility adjustment in CZTS nanoparticle thin films. Solar Energy Materials and Solar Cells, 2014, 127, 188-192.	6.2	17
25	Effects of electrode modification using calcium on the performance of alternating current field-induced polymer electroluminescent devices. Applied Physics Letters, 2013, 102, 253302.	3.3	16
26	Designing a Nanoscale Three-phase Electrochemical Pathway to Promote Pt-catalyzed Formaldehyde Oxidation. Nano Letters, 2020, 20, 8719-8724.	9.1	15
27	Layered, Nanonetwork Composite Cathodes for Flexible, High-Efficiency, Organic Light Emitting Devices. Advanced Functional Materials, 2015, 25, 4397-4404.	14.9	12
28	Solution-processed yellow-white light-emitting diodes based on mixed-solvent dispersed luminescent ZnO nanocrystals. Applied Physics Letters, 2015, 106, 263506.	3.3	6
29	Organic Electronics: Layered, Nanonetwork Composite Cathodes for Flexible, High-Efficiency, Organic Light Emitting Devices (Adv. Funct. Mater. 28/2015). Advanced Functional Materials, 2015, 25, 4370-4370.	14.9	0
30	Resolve cathode electrolyte interphase in lithium batteries with cryo-EM. Microscopy and Microanalysis, 2021, 27, 2188-2190.	0.4	0