

Yusheng Wang

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,538
citations

516710

16
h-index

642732

23
g-index

23
all docs

23
docs citations

23
times ranked

2734
citing authors

#	ARTICLE	IF	CITATIONS
1	Freestanding silicon nanowires mesh for efficient electricity generation from evaporation-induced water capillary flow. <i>Nano Energy</i> , 2022, 94, 106917.	16.0	28
2	A Hygroscopic Janus Heterojunction for Continuous Moisture-Triggered Electricity Generators. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19569-19578.	8.0	15
3	Integrating hydrovoltaic device with triboelectric nanogenerator to achieve simultaneous energy harvesting from water droplet and vapor. <i>Nano Energy</i> , 2022, 100, 107495.	16.0	15
4	Asymmetric Charged Conductive Porous Films for Electricity Generation from Water Droplets via Capillary Infiltrating. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17902-17909.	8.0	32
5	Simultaneously Harvesting Friction and Solar Energy via Organic/Silicon Heterojunction with High Direct Current Generation. <i>Advanced Energy Materials</i> , 2021, 11, 2100578.	19.5	13
6	Bioinspired Hierarchical Nanofabric Electrode for Silicon Hydrovoltaic Device with Record Power Output. <i>ACS Nano</i> , 2021, 15, 7472-7481.	14.6	65
7	Synergistic Effect of Dielectric Property and Energy Transfer on Charge Separation in Non-Fullerene-Based Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15054-15062.	13.8	30
8	Synergistic Effect of Dielectric Property and Energy Transfer on Charge Separation in Non-Fullerene-Based Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 15181-15189.	2.0	2
9	Electron-Selective Passivation Contacts for High-Efficiency Nanostructured Silicon Hydrovoltaic Devices. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101213.	3.7	13
10	Direct Observation of Conductive Polymer Induced Inversion Layer in n-Si and Correlation to Solar Cell Performance. <i>Advanced Functional Materials</i> , 2020, 30, 1903440.	14.9	29
11	Constant Electricity Generation in Nanostructured Silicon by Evaporation-Driven Water Flow. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10619-10625.	13.8	124
12	Constant Electricity Generation in Nanostructured Silicon by Evaporation-Driven Water Flow. <i>Angewandte Chemie</i> , 2020, 132, 10706-10712.	2.0	94
13	Unrevealing Charge Carrier Selective Layer in Silicon Heterojunction Solar Cells via Multifunctional Atomic Force Probes. <i>Solar Rrl</i> , 2019, 3, 1900312.	5.8	7
14	Passivating Crystal Boundaries with Potassium-Rich Phase in Organic Halide Perovskite. <i>Solar Rrl</i> , 2019, 3, 1900053.	5.8	64
15	The Light-Induced Field-Effect Solar Cell Concept – Perovskite Nanoparticle Coating Introduces Polarization Enhancing Silicon Cell Efficiency. <i>Advanced Materials</i> , 2017, 29, 1606370.	21.0	35
16	Investigation of MoO _x /n-Si strong inversion layer interfaces via dopant-free heterocontact. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700107.	2.4	56
17	Solution-Processed Extremely Efficient Multicolor Perovskite Light-Emitting Diodes Utilizing Doped Electron Transport Layer. <i>Advanced Functional Materials</i> , 2017, 27, 1606874.	14.9	96
18	Flexible Broadband Graphene Photodetectors Enhanced by Plasmonic Cu ₃ P Colloidal Nanocrystals. <i>Small</i> , 2017, 13, 1701881.	10.0	63

#	ARTICLE	IF	CITATIONS
19	Reversible Structural Swellâ€“Shrink and Recoverable Optical Properties in Hybrid Inorganicâ€“Organic Perovskite. ACS Nano, 2016, 10, 7031-7038.	14.6	68
20	Two-Dimensional CH ₃ NH ₃ PbI ₃ Perovskite: Synthesis and Optoelectronic Application. ACS Nano, 2016, 10, 3536-3542.	14.6	359
21	Wavelength-tunable waveguides based on polycrystalline organicâ€“inorganic perovskite microwires. Nanoscale, 2016, 8, 6258-6264.	5.6	76
22	Top-grid monolayer graphene/Si Schottkey solar cell. Journal of Solid State Chemistry, 2015, 224, 102-106.	2.9	14
23	Hybrid Grapheneâ€“Perovskite Phototransistors with Ultrahigh Responsivity and Gain. Advanced Optical Materials, 2015, 3, 1389-1396.	7.3	240