Yusheng Wang

List of Publications by Year
in descending order

23 papers	1,538 citations	516561 16 h-index	642610 23 g-index
23 all docs	23 docs citations	23 times ranked	2734 citing authors

#	Article	IF	Citations
1	Two-Dimensional CH₃NH₃PbI₃ Perovskite: Synthesis and Optoelectronic Application. ACS Nano, 2016, 10, 3536-3542.	7.3	359
2	Hybrid Grapheneâ€“Perovskite Phototransistors with Ultrahigh Responsivity and Gain. Advanced Optical Materials, 2015, 3, 1389-1396.	3.6	240
3	Constant Electricity Generation in Nanostructured Silicon by Evaporationâ€Driven Water Flow. Angewandte Chemie - International Edition, 2020, 59, 10619-10625.	7.2	124
4	Solutionâ€Processed Extremely Efficient Multicolor Perovskite Lightâ€Emitting Diodes Utilizing Doped Electron Transport Layer. Advanced Functional Materials, 2017, 27, 1606874.	7.8	96
5	Constant Electricity Generation in Nanostructured Silicon by Evaporationâ€Driven Water Flow. Angewandte Chemie, 2020, 132, 10706-10712.	1.6	94
6	Wavelength-tunable waveguides based on polycrystalline organicâ€“inorganic perovskite microwires. Nanoscale, 2016, 8, 6258-6264.	2.8	76
7	Reversible Structural Swellâ€“Shrink and Recoverable Optical Properties in Hybrid Inorganicâ€“Organic Perovskite. ACS Nano, 2016, 10, 7031-7038.	7.3	68
8	Bioinspired Hierarchical Nanofabric Electrode for Silicon Hydrovoltaic Device with Record Power Output. ACS Nano, 2021, 15, 7472-7481.	7.3	65
9	Passivating Crystal Boundaries with Potassiumâ€Rich Phase in Organic Halide Perovskite. Solar Rrl, 2019, 3, 1900053.	3.1	64
10	Flexible Broadband Graphene Photodetectors Enhanced by Plasmonic Cu_{3â^’}_xP Colloidal Nanocrystals. Small, 2017, 13, 1701881.	5.2	63
11	Investigation of MoO_x/nâ€Si strong inversion layer interfaces via dopantâ€free heterocontact. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700107.	1.2	56
12	The Lightâ€Induced Fieldâ€Effect Solar Cell Concept â€“ Perovskite Nanoparticle Coating Introduces Polarization Enhancing Silicon Cell Efficiency. Advanced Materials, 2017, 29, 1606370.	11.1	35
13	Asymmetric Charged Conductive Porous Films for Electricity Generation from Water Droplets via Capillary Infiltrating. ACS Applied Materials & Interfaces, 2021, 13, 17902-17909.	4.0	32
14	Synergistic Effect of Dielectric Property and Energy Transfer on Charge Separation in Nonâ€Fullereneâ€Based Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 15054-15062.	7.2	30
15	Direct Observation of Conductive Polymer Induced Inversion Layer in nâ€Si and Correlation to Solar Cell Performance. Advanced Functional Materials, 2020, 30, 1903440.	7.8	29
16	Freestanding silicon nanowires mesh for efficient electricity generation from evaporation-induced water capillary flow. Nano Energy, 2022, 94, 106917.	8.2	28
17	A Hygroscopic Janus Heterojunction for Continuous Moisture-Triggered Electricity Generators. ACS Applied Materials & Interfaces, 2022, 14, 19569-19578.	4.0	15
18	Integrating hydrovoltaic device with triboelectric nanogenerator to achieve simultaneous energy harvesting from water droplet and vapor. Nano Energy, 2022, 100, 107495.	8.2	15

#	Article	IF	Citations
19	Top-grid monolayer graphene/Si Schottkey solar cell. Journal of Solid State Chemistry, 2015, 224, 102-106.	1.4	14
20	Simultaneously Harvesting Friction and Solar Energy via Organic/Silicon Heterojunction with High Directâ€Current Generation. Advanced Energy Materials, 2021, 11, 2100578.	10.2	13
21	Electronâ€Selective Passivation Contacts for Highâ€Efficiency Nanostructured Silicon Hydrovoltaic Devices. Advanced Materials Interfaces, 2021, 8, 2101213.	1.9	13
22	Unrevealing Charge Carrier Selective Layer in Silicon Heterojunction Solar Cells via Multifunctional Atomic Force Probes. Solar Rrl, 2019, 3, 1900312.	3.1	7
23	Synergistic Effect of Dielectric Property and Energy Transfer on Charge Separation in Nonâ€Fullereneâ€Based Solar Cells. Angewandte Chemie, 2021, 133, 15181-15189.	1.6	2