

# Yusheng Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5759839/publications.pdf>

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23  
papers

1,538  
citations

516710

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642732

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docs citations

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times ranked

2734  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Dimensional CH <sub>3</sub> NH <sub>3</sub> Pb <sub>3</sub> Perovskite: Synthesis and Optoelectronic Application. ACS Nano, 2016, 10, 3536-3542.	14.6	359
2	Hybrid Graphene-Perovskite Phototransistors with Ultrahigh Responsivity and Gain. Advanced Optical Materials, 2015, 3, 1389-1396.	7.3	240
3	Constant Electricity Generation in Nanostructured Silicon by Evaporation-Driven Water Flow. Angewandte Chemie - International Edition, 2020, 59, 10619-10625.	13.8	124
4	Solution-Processed Extremely Efficient Multicolor Perovskite Light-Emitting Diodes Utilizing Doped Electron Transport Layer. Advanced Functional Materials, 2017, 27, 1606874.	14.9	96
5	Constant Electricity Generation in Nanostructured Silicon by Evaporation-Driven Water Flow. Angewandte Chemie, 2020, 132, 10706-10712.	2.0	94
6	Wavelength-tunable waveguides based on polycrystalline organic-inorganic perovskite microwires. Nanoscale, 2016, 8, 6258-6264.	5.6	76
7	Reversible Structural Swell-Shrink and Recoverable Optical Properties in Hybrid Inorganic-Organic Perovskite. ACS Nano, 2016, 10, 7031-7038.	14.6	68
8	Bioinspired Hierarchical Nanofabric Electrode for Silicon Hydrovoltaic Device with Record Power Output. ACS Nano, 2021, 15, 7472-7481.	14.6	65
9	Passivating Crystal Boundaries with Potassium-Rich Phase in Organic Halide Perovskite. Solar Rrl, 2019, 3, 1900053.	5.8	64
10	Flexible Broadband Graphene Photodetectors Enhanced by Plasmonic Cu <sub>3</sub> P Colloidal Nanocrystals. Small, 2017, 13, 1701881.	10.0	63
11	Investigation of MoO <sub>3</sub> /n-Si strong inversion layer interfaces via dopant-free heterocontact. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700107.	2.4	56
12	The Light-Induced Field-Effect Solar Cell Concept - Perovskite Nanoparticle Coating Introduces Polarization Enhancing Silicon Cell Efficiency. Advanced Materials, 2017, 29, 1606370.	21.0	35
13	Asymmetric Charged Conductive Porous Films for Electricity Generation from Water Droplets via Capillary Infiltrating. ACS Applied Materials & Interfaces, 2021, 13, 17902-17909.	8.0	32
14	Synergistic Effect of Dielectric Property and Energy Transfer on Charge Separation in Non-Fullerene-Based Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 15054-15062.	13.8	30
15	Direct Observation of Conductive Polymer Induced Inversion Layer in n-Si and Correlation to Solar Cell Performance. Advanced Functional Materials, 2020, 30, 1903440.	14.9	29
16	Freestanding silicon nanowires mesh for efficient electricity generation from evaporation-induced water capillary flow. Nano Energy, 2022, 94, 106917.	16.0	28
17	A Hygroscopic Janus Heterojunction for Continuous Moisture-Triggered Electricity Generators. ACS Applied Materials & Interfaces, 2022, 14, 19569-19578.	8.0	15
18	Integrating hydrovoltaic device with triboelectric nanogenerator to achieve simultaneous energy harvesting from water droplet and vapor. Nano Energy, 2022, 100, 107495.	16.0	15

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19	Top-grid monolayer graphene/Si Schottkey solar cell. Journal of Solid State Chemistry, 2015, 224, 102-106.	2.9	14
20	Simultaneously Harvesting Friction and Solar Energy via Organic/Silicon Heterojunction with High Direct-Current Generation. Advanced Energy Materials, 2021, 11, 2100578.	19.5	13
21	Electron-Selective Passivation Contacts for High-Efficiency Nanostructured Silicon Hydrovoltaic Devices. Advanced Materials Interfaces, 2021, 8, 2101213.	3.7	13
22	Unrevealing Charge Carrier Selective Layer in Silicon Heterojunction Solar Cells via Multifunctional Atomic Force Probes. Solar Rrl, 2019, 3, 1900312.	5.8	7
23	Synergistic Effect of Dielectric Property and Energy Transfer on Charge Separation in Non-Fullerene-Based Solar Cells. Angewandte Chemie, 2021, 133, 15181-15189.	2.0	2