

Tao Song

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,762
citations

331538

21
h-index

477173

29
g-index

29
all docs

29
docs citations

29
times ranked

2453
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution-processed perovskite light emitting diodes with efficiency exceeding 15% through additive-controlled nanostructure tailoring. <i>Nature Communications</i> , 2018, 9, 3892.	5.8	379
2	Improved Performance and Stability of All-Inorganic Perovskite Light-Emitting Diodes by Antisolvent Vapor Treatment. <i>Advanced Functional Materials</i> , 2017, 27, 1700338.	7.8	221
3	High-Performance Perovskite Light-Emitting Diode with Enhanced Operational Stability Using Lithium Halide Passivation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4099-4105.	7.2	130
4	Constant Electricity Generation in Nanostructured Silicon by Evaporation-Driven Water Flow. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10619-10625.	7.2	124
5	Hot-Electron Injection in a Sandwiched TiO _x /Au/TiO _x Structure for High-Performance Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1500038.	10.2	119
6	Boosting Perovskite Light-Emitting Diode Performance via Tailoring Interfacial Contact. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 24320-24326.	4.0	96
7	Revealing Crystallization Dynamics and the Compositional Control Mechanism of 2D Perovskite Film Growth by In Situ Synchrotron-Based GIXRD. <i>ACS Energy Letters</i> , 2020, 5, 8-16.	8.8	68
8	Bioinspired Hierarchical Nanofabric Electrode for Silicon Hydrovoltaic Device with Record Power Output. <i>ACS Nano</i> , 2021, 15, 7472-7481.	7.3	65
9	Passivating Crystal Boundaries with Potassium-Rich Phase in Organic Halide Perovskite. <i>Solar Rrl</i> , 2019, 3, 1900053.	3.1	64
10	Ultra-stable and Reversible Fluorescent Perovskite Films Used for Flexible Instantaneous Display. <i>Advanced Functional Materials</i> , 2019, 29, 1900730.	7.8	60
11	Alternative Type Two-Dimensional-Three-Dimensional Lead Halide Perovskite with Inorganic Sodium Ions as a Spacer for High-Performance Light-Emitting Diodes. <i>ACS Nano</i> , 2019, 13, 1645-1654.	7.3	43
12	Recent Progress on Patterning Strategies for Perovskite Light-Emitting Diodes toward a Full-Color Display Prototype. <i>Small Science</i> , 2021, 1, 2000050.	5.8	39
13	Prominent Heat Dissipation in Perovskite Light-Emitting Diodes with Reduced Efficiency Droop for Silicon-Based Display. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3689-3698.	2.1	37
14	High-Efficiency Perovskite Light-Emitting Diodes with Improved Interfacial Contact. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36681-36687.	4.0	35
15	Asymmetric Charged Conductive Porous Films for Electricity Generation from Water Droplets via Capillary Infiltrating. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17902-17909.	4.0	32
16	Thermal-induced interface degradation in perovskite light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15079-15085.	2.7	30
17	Strontium Ion Site Substitution for Spectrally Stable Blue Emitting Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2020, 8, 2001073.	3.6	28
18	In-situ passivation perovskite targeting efficient light-emitting diodes via spontaneously formed silica network. <i>Nano Energy</i> , 2020, 78, 105134.	8.2	28

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19	Freestanding silicon nanowires mesh for efficient electricity generation from evaporation-induced water capillary flow. <i>Nano Energy</i> , 2022, 94, 106917.	8.2	28
20	Efficient and Bright Pure-Blue All-Inorganic Perovskite Light-Emitting Diodes from an Ecofriendly Alloy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1747-1753.	2.1	25
21	Spectral-Stable Blue Emission from Moisture-Treated Low-Dimensional Lead Bromide-Based Perovskite Films. <i>ACS Photonics</i> , 2019, 6, 1728-1735.	3.2	21
22	Nanoplatelet modulation in 2D/3D perovskite targeting efficient light-emitting diodes. <i>Nanoscale</i> , 2018, 10, 19322-19329.	2.8	20
23	A Hygroscopic Janus Heterojunction for Continuous Moisture-Triggered Electricity Generators. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19569-19578.	4.0	15
24	Integrating hydrovoltaic device with triboelectric nanogenerator to achieve simultaneous energy harvesting from water droplet and vapor. <i>Nano Energy</i> , 2022, 100, 107495.	8.2	15
25	Electron-Selective Passivation Contacts for High-Efficiency Nanostructured Silicon Hydrovoltaic Devices. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101213.	1.9	13
26	High-Performance Perovskite Light-Emitting Diode with Enhanced Operational Stability Using Lithium Halide Passivation. <i>Angewandte Chemie</i> , 2020, 132, 4128-4134.	1.6	8
27	Unveiling the critical role of ammonium bromide in blue emissive perovskite films. <i>Nanoscale</i> , 2021, 13, 13497-13505.	2.8	7
28	Revealing a Zinc Oxide/Perovskite Luminescence Quenching Mechanism Targeting Low-Roll-off Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3121-3129.	2.1	7
29	Self-Healing Perovskite Films Enabled by Fluorinated Cross-Linked Network Targeting Flexible Light-Emitting Diode. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	5