

ChuanXiang Sheng

List of Publications by Year in descending order

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31
papers

567
citations

687363

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1184
citing authors

#	ARTICLE	IF	CITATIONS
1	Exciton versus Free Carrier Photogeneration in Organometal Trihalide Perovskites Probed by Broadband Ultrafast Polarization Memory Dynamics. <i>Physical Review Letters</i> , 2015, 114, 116601.	7.8	113
2	Light induced metastable modification of optical properties in CH ₃ NH ₃ PbI ₃ x Br _x perovskite films: Two-step mechanism. <i>Organic Electronics</i> , 2016, 34, 79-83.	2.6	73
3	Optical Properties of Two-Dimensional Perovskite Films of (C ₆ H ₅ C ₂ H ₄ NH ₃) ₂ [Pb ₄] and (C ₆ H ₅ C ₂ H ₄ NH ₃) ₂ (CH ₃ NH ₃) ₂ [Pb ₃ I ₁₀]. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 13-19.	4.6	43
4	Efficient Hole Transfer via Delocalized Excited State in Small Molecular Acceptor: A Comparative Study on Photodynamics of PM6:Y6 and PM6:ITIC Organic Photovoltaic Blends. <i>Advanced Functional Materials</i> , 2021, 31, 2102764.	14.9	37
5	Circularly polarized photoluminescence and Hanle effect measurements of spin relaxation in organo-inorganic hybrid perovskite films. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2989-2995.	5.5	35
6	Robust and Swiftly Reversible Thermochromic Behavior of a 2D Perovskite of (C ₆ H ₄ (CH ₂ NH ₃) ₂)(CH ₃ NH ₃) ₂ [Pb ₂] for Smart Window and Photovoltaic Smart Window Applications. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12042-12048.	8.0	32
7	Exceptional elastic anisotropy of hybrid organo-inorganic perovskite CH ₃ NH ₃ PbBr ₃ measured by laser ultrasonic technique. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 606-612.	2.4	31
8	Improved Charge Generation via Ultrafast Effective Hole Transfer in All-Polymer Photovoltaic Blends with Large Highest Occupied Molecular Orbital (HOMO) Energy Offset and Proper Crystal Orientation. <i>Advanced Functional Materials</i> , 2018, 28, 1801611.	14.9	27
9	Thermal Annealing Effect on Ultrafast Charge Transfer in All-Polymer Solar Cells with a Non-Fullerene Acceptor N2200. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8804-8811.	3.1	20
10	Ultrafast Electron Transfer in Low-Band Gap Polymer/PbS Nanocrystalline Blend Films. <i>Advanced Functional Materials</i> , 2016, 26, 713-721.	14.9	17
11	Excitonic Solar Cells Using 2D Perovskite of (BA) ₂ (FA) ₂ Pb ₃ I ₁₀ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 2212-2219.	3.1	17
12	Electrohydrodynamics-Printed Silver Nanoparticle Flexible Pressure Sensors With Improved Gauge Factor. <i>IEEE Sensors Journal</i> , 2021, 21, 5836-5844.	4.7	15
13	SESAM Q-Switched Ho ³⁺ -Doped ZBLAN Fiber Laser at 1190 nm. <i>IEEE Photonics Technology Letters</i> , 2017, 29, 743-746.	2.5	14
14	Gridization-Driven Mesoscale Self-Assembly of Conjugated Nanopolymers into Luminescence-Anisotropic Photonic Crystals. <i>Advanced Materials</i> , 2022, 34, e2109399.	21.0	14
15	Improved Hole Transfer and Charge Generation in All-Polymer Photovoltaic Blends with a N Structure. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25262-25269.	3.1	11
16	Origin of thermal instability of CH ₃ NH ₃ PbI ₃ x Cl _x films for photovoltaic devices. <i>Materials Letters</i> , 2016, 176, 114-117.	2.6	9
17	Effect of Thermal Annealing on Aggregations in MEH-PPV Films. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11055-11062.	3.1	7
18	Light-Induced Photoluminescence Quenching and Degradation in Quasi 2D Perovskites Film of (C ₆ H ₅ C ₂ H ₄ NH ₃) ₂ (CH ₃ NH ₃) ₂ [Pb ₃ I ₁₀]. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2683.	2.5	7

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19	Effect on the morphology and optical properties of CH ₃ NH ₃ PbI ₃ with additive of NH ₄ Cl. <i>Optical Materials</i> , 2017, 64, 461-467.	3.6	6
20	Slow Hot-Carrier-Cooling in a 2D Lead-Iodide Perovskite Film and Its Photovoltaic Device. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2374-2382.	3.1	6
21	Highly efficient inverted planar solar cell using formamidinium-based quasi-two dimensional perovskites. <i>Journal of Alloys and Compounds</i> , 2022, 921, 166139.	5.5	6
22	Long Lived Photoexcitation Dynamics in ĩ€-Conjugated Polymer/PbS Quantum Dot Blended Films for Photovoltaic Application. <i>Polymers</i> , 2017, 9, 352.	4.5	5
23	Contrasting Electron and Hole Transfer Dynamics from CH(NH ₂) ₂ PbI ₃ Perovskite Quantum Dots to Charge Transport Layers. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5553.	2.5	5
24	Ultrafast photomodulation spectroscopy of ĩ€-conjugated polymers, nanotubes and organometal trihalide perovskites: A comparison. <i>Synthetic Metals</i> , 2016, 216, 31-39.	3.9	4
25	Effect of Thermal Annealing on Conformation of MEH-PPV Chains in Polymer Matrix: Coexistence of H- and J-Aggregates. <i>Polymers</i> , 2020, 12, 1771.	4.5	4
26	Simple method to synthesize larger n 2D perovskite from (C(NH ₂) ₃)(CH ₃ NH ₃) _n [PbnI _{3n+1}] of n = 1 using isopropanol. <i>Organic Electronics</i> , 2022, 105, 106486.	2.6	3
27	Effects of Spin-Casting Speed on Solar Cell Performances and Corresponding Films Morphology and Optical Properties Using 2D Perovskite of PEA ₂ MA ₂ Pb ₃ I ₁₀ . <i>Electronic Materials Letters</i> , 2022, 18, 282-293.	2.2	3
28	Photoluminescence in Organometal Halide Perovskites: Free Carrier Versus Exciton. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 513-517.	2.5	2
29	Phase segregation leading to tunable amplified spontaneous emission in mixed halide perovskites. <i>Materials Letters</i> , 2022, 313, 131843.	2.6	1
30	A theoretical study on achieving the generalized binomial states with second harmonic generation processes. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	0
31	Unusual Polarization Relation between Single-Mode Lasing Emission and Excitation Laser from an Evanescent-Wave Pumped Micro-Cavity Laser. <i>Photonics</i> , 2021, 8, 66.	2.0	0