Jun Xi

List of Publications by Year
in descending order

42 papers	2,604 citations	186265 28 h-index	233421 45 g-index
45 all docs	45 docs citations	45 times ranked	3862 citing authors

#	Article	IF	Citations
1	Harvesting the Triplet Excitons of Quasi-Two-Dimensional Perovskite toward Highly Efficient White Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2022, 13, 3674-3681.	4.6	3
2	Photoinduced Cross Linkable Polymerization of Flexible Perovskite Solar Cells and Modules by Incorporating Benzyl Acrylate. Advanced Functional Materials, 2022, 32, .	14.9	32
3	Abnormal spatial heterogeneity governing the charge-carrier mechanism in efficient Ruddlesdenâ€“Popper perovskite solar cells. Energy and Environmental Science, 2021, 14, 4915-4925.	30.8	24
4	The Fascinating Properties of Tin-Alloyed Halide Perovskites. ACS Energy Letters, 2021, 6, 1803-1810.	17.4	47
5	Scalable, Template Driven Formation of Highly Crystalline Leadâ€Tin Halide Perovskite Films. Advanced Functional Materials, 2021, 31, 2105734.	14.9	22
6	Impermeable inorganic â€œwallsâ€•sandwiching perovskite layer toward inverted and indoor photovoltaic devices. Nano Energy, 2021, 88, 106286.	16.0	19
7	Surface mediated ligands addressing bottleneck of room-temperature synthesized inorganic perovskite nanocrystals toward efficient light-emitting diodes. Nano Energy, 2020, 70, 104467.	16.0	56
8	High-Brightness and Color-Tunable FAPbBr₃ Perovskite Nanocrystals 2.0 Enable Ultrapure Green Luminescence for Achieving Recommendation 2020 Displays. ACS Applied Materials & Interfaces, 2020, 12, 2835-2841.	8.0	61
9	Suppressing Ion Migration Enables Stable Perovskite Lightâ€Emitting Diodes with Allâ€Inorganic Strategy. Advanced Functional Materials, 2020, 30, 2001834.	14.9	76
10	Flexible Perovskite Solar Modules with Functional Layers Fully Vacuum Deposited. Solar Rrl, 2020, 4, 2000292.	5.8	29
11	Alternative Organic Spacers for More Efficient Perovskite Solar Cells Containing Ruddlesdenâ€“Popper Phases. Journal of the American Chemical Society, 2020, 142, 19705-19714.	13.7	83
12	Directionally Selective Polyhalide Molecular Glue for Stable Inverted Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000244.	5.8	4
13	Local nearly non-strained perovskite lattice approaching a broad environmental stability window of efficient solar cells. Nano Energy, 2020, 75, 104940.	16.0	15
14	Rational Coreâ€“Shell Design of Open Air Low Temperature In Situ Processable CsPbI₃ Quasiâ€Nanocrystals for Stabilized pâ€iâ€n Solar Cells. Advanced Energy Materials, 2019, 9, 1901787.	19.5	53
15	A dopant-free twisted organic small-molecule hole transport material for inverted planar perovskite solar cells with enhanced efficiency and operational stability. Nano Energy, 2019, 64, 103946.	16.0	49
16	Conjugated Organic Cations Enable Efficient Self-Healing FASnI3 Solar Cells. Joule, 2019, 3, 3072-3087.	24.0	190
17	Conjugated Molecules â€œBridgeâ€: Functional Ligand toward Highly Efficient and Longâ€Term Stable Perovskite Solar Cell. Advanced Functional Materials, 2019, 29, 1808119.	14.9	88
18	Highâ€Performance Solutionâ€Processed Doubleâ€Walled Carbon Nanotube Transparent Electrode for Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1901204.	19.5	101

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19	Chemical sintering reduced grain boundary defects for stable planar perovskite solar cells. Nano Energy, 2019, 56, 741-750.	16.0	65
20	Rubidium Doping for Enhanced Performance of Highly Efficient Formamidinium-Based Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 9849-9857.	8.0	58
21	Highâ€Quality Cs₂AgBiBr₆ Double Perovskite Film for Leadâ€Free Inverted Planar Heterojunction Solar Cells with 2.2â€‰% Efficiency. ChemPhysChem, 2018, 19, 1696-1700.	2.1	306
22	Charge Transport between Coupling Colloidal Perovskite Quantum Dots Assisted by Functional Conjugated Ligands. Angewandte Chemie, 2018, 130, 5856-5860.	2.0	3
23	Bilateral Interface Engineering toward Efficient 2Dâ€“3D Bulk Heterojunction Tin Halide Lead-Free Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 713-721.	17.4	191
24	Perovskite Photovoltaics: Pseudohalideâ€Induced Recrystallization Engineering for CH₃NH₃PbI₃ Film and Its Application in Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells (Adv. Funct. Mater. 2/2018). Advanced Functional Materials, 2018, 28, 1870013.	14.9	5
25	Allâ€Inorganic Heteroâ€Structured Cesium Tin Halide Perovskite Lightâ€Emitting Diodes With Current Density Over 900â€‰Aâ€‰cm^{â^'2} and Its Amplified Spontaneous Emission Behaviors. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800090.	2.4	47
26	Charge Transport between Coupling Colloidal Perovskite Quantum Dots Assisted by Functional Conjugated Ligands. Angewandte Chemie - International Edition, 2018, 57, 5754-5758.	13.8	117
27	Pseudohalideâ€Induced Recrystallization Engineering for CH₃NH₃PbI₃ Film and Its Application in Highly Efficient Inverted Planar Heterojunction Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1704836.	14.9	112
28	Deciphering perovskite crystal growth in interdiffusion protocol for planar heterojunction photovoltaic devices. Organic Electronics, 2018, 53, 88-95.	2.6	2
29	Highly-efficient and low-temperature perovskite solar cells by employing a Bi-hole transport layer consisting of vanadium oxide and copper phthalocyanine. Chemical Communications, 2018, 54, 6177-6180.	4.1	37
30	Multichannel Interdiffusion Driven FASnI₃ Film Formation Using Aqueous Hybrid Salt/Polymer Solutions toward Flexible Leadâ€Free Perovskite Solar Cells. Advanced Materials, 2017, 29, 1606964.	21.0	137
31	Construction of Compact Methylammonium Bismuth Iodide Film Promoting Lead-Free Inverted Planar Heterojunction Organohalide Solar Cells with Open-Circuit Voltage over 0.8 V. Journal of Physical Chemistry Letters, 2017, 8, 394-400.	4.6	151
32	High Stability and Ultralow Threshold Amplified Spontaneous Emission from Formamidinium Lead Halide Perovskite Films. Journal of Physical Chemistry C, 2017, 121, 15318-15325.	3.1	50
33	Formation of ultrasmooth perovskite films toward highly efficient inverted planar heterojunction solar cells by micro-flowing anti-solvent deposition in air. Journal of Materials Chemistry A, 2016, 4, 6295-6303.	10.3	61
34	A facile one-step solution deposition via non-solvent/solvent mixture for efficient organometal halide perovskite light-emitting diodes. Nanoscale, 2016, 8, 11084-11090.	5.6	41
35	Initiating crystal growth kinetics of Î±-HC(NH2)2PbI3 for flexible solar cells with long-term stability. Nano Energy, 2016, 26, 438-445.	16.0	35
36	Electric field-modulated amplified spontaneous emission in organo-lead halide perovskite CH3NH3PbI3. Applied Physics Letters, 2015, 107, .	3.3	19

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37	Ag-encapsulated Au plasmonic nanorods for enhanced dye-sensitized solar cell performance. Journal of Materials Chemistry A, 2015, 3, 4659-4668.	10.3	65
38	Highly Transparent, Conductive, Flexible Resin Films Embedded with Silver Nanowires. Langmuir, 2015, 31, 4950-4957.	3.5	62
39	Controlled thickness and morphology for highly efficient inverted planar heterojunction perovskite solar cells. Nanoscale, 2015, 7, 10699-10707.	5.6	21
40	Modified deposition process of electron transport layer for efficient inverted planar perovskite solar cells. Chemical Communications, 2015, 51, 8986-8989.	4.1	28
41	Enhanced lasing assisted by the Ag-encapsulated Au plasmonic nanorods. Optics Letters, 2015, 40, 990.	3.3	12
42	Silver-loaded anatase nanotubes dispersed plasmonic composite photoanode for dye-sensitized solar cells. Organic Electronics, 2014, 15, 2847-2854.	2.6	18