

Chao Liang

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,970
citations

257450

24
h-index

276875

41
g-index

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all docs

42
docs citations

42
times ranked

2482
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase Pure 2D Perovskite for High-Performance 2D-3D Heterostructured Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1805323.	21.0	244
2	Rearranging Low-Dimensional Phase Distribution of Quasi-2D Perovskites for Efficient Sky-Blue Perovskite Light-Emitting Diodes. <i>ACS Nano</i> , 2020, 14, 11420-11430.	14.6	206
3	Low-Dimensional Dion-Jacobson Phase Lead-Free Perovskites for High-Performance Photovoltaics with Improved Stability. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6909-6914.	13.8	123
4	Low-Dimensional Perovskites with Diammonium and Monoammonium Alternant Cations for High-Performance Photovoltaics. <i>Advanced Materials</i> , 2019, 31, e1901966.	21.0	96
5	Recent Progress in Metal Halide Perovskite Micro- and Nanolasers. <i>Advanced Optical Materials</i> , 2019, 7, 1900080.	7.3	95
6	Ruddlesden-Popper Perovskite for Stable Solar Cells. <i>Energy and Environmental Materials</i> , 2018, 1, 221-231.	12.8	85
7	Chemical bath deposited rutile TiO ₂ compact layer toward efficient planar heterojunction perovskite solar cells. <i>Applied Surface Science</i> , 2017, 391, 337-344.	6.1	76
8	Deep surface passivation for efficient and hydrophobic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 2919-2927.	10.3	74
9	Thermally Activated Upconversion Near-Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation. <i>Small</i> , 2019, 15, e1905050.	10.0	70
10	Towards Simplifying the Device Structure of High-Performance Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2000863.	14.9	67
11	Mild solution-processed metal-doped TiO ₂ compact layers for hysteresis-less and performance-enhanced perovskite solar cells. <i>Journal of Power Sources</i> , 2017, 372, 235-244.	7.8	66
12	Ultrashort laser pulse doubling by metal-halide perovskite multiple quantum wells. <i>Nature Communications</i> , 2020, 11, 3361.	12.8	57
13	Polyethyleneimine High-Energy Hydrophilic Surface Interfacial Treatment toward Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32574-32580.	8.0	52
14	Realization of the Photostable Intrinsic Core Emission from Carbon Dots through Surface Deoxidation by Ultraviolet Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3094-3100.	4.6	50
15	Surface Passivation Toward Efficient and Stable Perovskite Solar Cells. <i>Energy and Environmental Materials</i> , 2023, 6, .	12.8	46
16	Nanoscale hybrid multidimensional perovskites with alternating cations for high performance photovoltaic. <i>Nano Energy</i> , 2019, 65, 104050.	16.0	44
17	Facile deposition of high-quality Cs ₂ AgBiBr ₆ films for efficient double perovskite solar cells. <i>Science China Materials</i> , 2020, 63, 1518-1525.	6.3	41
18	Efficient Anti-solvent-free Spin-Coated and Printed Sn-Perovskite Solar Cells with Crystal-Based Precursor Solutions. <i>Matter</i> , 2020, 2, 167-180.	10.0	38

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19	In Situ Growth of MAPbBr ₃ Nanocrystals on Few-Layer MXene Nanosheets with Efficient Energy Transfer. <i>Small</i> , 2020, 16, e1905896.	10.0	38
20	Pure Bromide-Based Perovskite Nanoplatelets for Blue Light-Emitting Diodes. <i>Small Methods</i> , 2019, 3, 1900196.	8.6	34
21	Covalently Connecting Crystal Grains with Polyvinylammonium Carbochain Backbone To Suppress Grain Boundaries for Long-Term Stable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6064-6071.	8.0	33
22	Simultaneously boost diffusion length and stability of perovskite for high performance solar cells. <i>Nano Energy</i> , 2019, 59, 721-729.	16.0	33
23	Enhanced efficiency and stability of perovskite solar cells by 2D perovskite vapor-assisted interface optimization. <i>Journal of Energy Chemistry</i> , 2020, 45, 103-109.	12.9	32
24	Low-Dimensional Dion-Jacobson Phase Lead-Free Perovskites for High-Performance Photovoltaics with Improved Stability. <i>Angewandte Chemie</i> , 2020, 132, 6976-6981.	2.0	26
25	Enhanced Efficiency of Perovskite Solar Cells by using Core-Ultrathin Shell Structure Ag@SiO ₂ Nanowires as Plasmonic Antennas. <i>Advanced Electronic Materials</i> , 2017, 3, 1700169.	5.1	24
26	Controlling the film structure by regulating 2D Ruddlesden-Popper perovskite formation enthalpy for efficient and stable tri-cation perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5874-5881.	10.3	23
27	High-performance flexible perovskite photodetectors based on single-crystal-like two-dimensional Ruddlesden-Popper thin films. , 2023, 5, .		23
28	Solution-processable carbon dots with efficient solid-state red/near-infrared emission. <i>Journal of Colloid and Interface Science</i> , 2022, 613, 547-553.	9.4	21
29	Recent Progress in Perovskite-Based Reversible Photon-Electricity Conversion Devices. <i>Advanced Functional Materials</i> , 2022, 32, 2108926.	14.9	18
30	Tailoring the Surface Morphology and Phase Distribution for Efficient Perovskite Electroluminescence. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5877-5882.	4.6	17
31	Overcoming the Limitation of Cs ₂ AgBiBr ₆ Double Perovskite Solar Cells Through Using Mesoporous TiO ₂ Electron Extraction Layer. <i>Energy and Environmental Materials</i> , 2022, 5, 1317-1322.	12.8	17
32	Doping Electron Transporting Layer: An Effective Method to Enhance J_{SC} of All-Inorganic Perovskite Solar Cells. <i>Energy and Environmental Materials</i> , 2021, 4, 500-501.	12.8	17
33	Morphology Control of Doped Spiro-MeOTAD Films for Air Stable Perovskite Solar Cells. <i>Small</i> , 2020, 16, e1907513.	10.0	16
34	Solution-Processed Perovskite Microdisk for Coherent Light Emission. <i>Advanced Optical Materials</i> , 2019, 7, 1900678.	7.3	12
35	Two-Dimensional Heterostructure of MoS ₂ /BA ₂ PbI ₄ 2D Ruddlesden-Popper Perovskite with an S Scheme Alignment for Solar Cells: A First-Principles Study. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1939-1948.	4.3	11
36	Efficient and Stable Perovskite Solar Cells via CsPF ₆ Passivation of Perovskite Film Defects. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4598-4604.	4.6	11

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37	Phase Tailoring of Ruddlesdenâ€“Popper Perovskite at Fixed Large Spacer Cation Ratio. <i>Small</i> , 2021, 17, e2100560.	10.0	10
38	Manipulation of Band Alignment in Two-Dimensional Vertical $\text{WSe}_2/\text{BA}_2/\text{PbI}_4$ Ruddlesdenâ€“Popper Perovskite Heterojunctions via Defect Engineering. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4579-4588.	4.6	10
39	Perovskite Solar Cells: Lowâ€“Dimensional Perovskites with Diammonium and Monoammonium Alternant Cations for Highâ€“Performance Photovoltaics (<i>Adv. Mater.</i> 35/2019). <i>Advanced Materials</i> , 2019, 31, 1970252.	21.0	6
40	High-performance perovskite solar cells resulting from large perovskite grain size enabled by the urea additive. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2955-2961.	4.9	5
41	Photoluminescence: Thermally Activated Upconversion Nearâ€“Infrared Photoluminescence from Carbon Dots Synthesized via Microwave Assisted Exfoliation (<i>Small</i> 50/2019). <i>Small</i> , 2019, 15, 1970288.	10.0	2
42	Inkjet printed perovskite solar cells: progress and prospects. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2019, 68, 158807.	0.5	1