

Yanfeng Miao

List of Publications by Year in descending order

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38
papers

6,073
citations

304743

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37
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38
all docs

38
docs citations

38
times ranked

6155
citing authors

#	ARTICLE	IF	CITATIONS
1	Perovskite light-emitting diodes based on spontaneously formed submicrometre-scale structures. Nature, 2018, 562, 249-253.	27.8	1,555
2	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. Nature Photonics, 2016, 10, 699-704.	31.4	1,535
3	Rational molecular passivation for high-performance perovskite light-emitting diodes. Nature Photonics, 2019, 13, 418-424.	31.4	970
4	Minimising efficiency roll-off in high-brightness perovskite light-emitting diodes. Nature Communications, 2018, 9, 608.	12.8	322
5	Oriented Quasi-2D Perovskites for High Performance Optoelectronic Devices. Advanced Materials, 2018, 30, e1804771.	21.0	268
6	Efficient Red Perovskite Light-Emitting Diodes Based on Solution-Processed Multiple Quantum Wells. Advanced Materials, 2017, 29, 1606600.	21.0	155
7	Unveiling the synergistic effect of precursor stoichiometry and interfacial reactions for perovskite light-emitting diodes. Nature Communications, 2019, 10, 2818.	12.8	129
8	Stable and bright formamidinium-based perovskite light-emitting diodes with high energy conversion efficiency. Nature Communications, 2019, 10, 3624.	12.8	104
9	Microcavity top-emission perovskite light-emitting diodes. Light: Science and Applications, 2020, 9, 89.	16.6	96
10	Organic Tetrabutylammonium Cation Intercalation to Heal Inorganic CsPbI ₃ Perovskite. Angewandte Chemie - International Edition, 2021, 60, 12351-12355.	13.8	94
11	Optical Energy Losses in Organic-Inorganic Hybrid Perovskite Light-Emitting Diodes. Advanced Optical Materials, 2018, 6, 1800667.	7.3	91
12	CsI Enhanced Buried Interface for Efficient and UV-Robust Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, 2103151.	19.5	91
13	In situ growth of ultra-thin perovskitoid layer to stabilize and passivate MAPbI ₃ for efficient and stable photovoltaics. EScience, 2021, 1, 91-97.	41.6	79
14	Zwitterion-Functionalized SnO ₂ Substrate Induced Sequential Deposition of Black-Phase FAPbI ₃ with Rearranged PbI ₂ Residue. Advanced Materials, 2022, 34, .	21.0	75
15	The formation of perovskite multiple quantum well structures for high performance light-emitting diodes. Npj Flexible Electronics, 2018, 2, .	10.7	46
16	Ultra-Bright Near-Infrared Perovskite Light-Emitting Diodes with Reduced Efficiency Roll-off. Scientific Reports, 2018, 8, 15496.	3.3	42
17	Understanding the Improvement in the Stability of a Self-Assembled Multiple-Quantum Well Perovskite Light-Emitting Diode. Journal of Physical Chemistry Letters, 2019, 10, 6857-6864.	4.6	42
18	Multi-Level Passivation of MAPbI ₃ Perovskite for Efficient and Stable Photovoltaics. Advanced Functional Materials, 2022, 32, .	14.9	36

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19	Bright Free Exciton Electroluminescence from Mn-Doped Two-Dimensional Layered Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3171-3175.	4.6	35
20	Using steric hindrance to manipulate and stabilize metal halide perovskites for optoelectronics. <i>Chemical Science</i> , 2021, 12, 7231-7247.	7.4	31
21	Stable Cesium-Rich Formamidinium/Cesium Pure-Iodide Perovskites for Efficient Photovoltaics. <i>ACS Energy Letters</i> , 2021, 6, 2735-2741.	17.4	31
22	Deep-Red Perovskite Light-Emitting Diodes Based on One-Step-Formed CsPbI_3 Cuboid Crystallites. <i>Advanced Materials</i> , 2021, 33, e2105699.	21.0	30
23	Organic Tetrabutylammonium Cation Intercalation to Heal Inorganic CsPbI_3 Perovskite. <i>Angewandte Chemie</i> , 2021, 133, 12459-12463.	2.0	24
24	Inorganic CsPbBr_3 Perovskite Nanocrystals as Interfacial Ion Reservoirs to Stabilize FAPbI_3 Perovskite for Efficient Photovoltaics. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	22
25	Decoupling engineering of formamidinium-cesium perovskites for efficient photovoltaics. <i>National Science Review</i> , 2022, 9, .	9.5	22
26	Inhomogeneous degradation in metal halide perovskites. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	19
27	Lead Stabilization and Iodine Recycling of Lead Halide Perovskite Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 16519-16525.	6.7	19
28	Light-Emitting Transistors Based on Solution-Processed Heterostructures of Self-Organized Multiple-Quantum-Well Perovskite and Metal-Oxide Semiconductors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800985.	5.1	18
29	5-Ammonium Valeric Acid Iodide to Stabilize MAPbI_3 via a Mixed-Cation Perovskite with Reduced Dimension. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8170-8176.	4.6	17
30	Synergistic stabilization of CsPbI_3 inorganic perovskite via 1D capping and secondary growth. <i>Journal of Energy Chemistry</i> , 2022, 68, 387-392.	12.9	16
31	The Chemical Design in High-Performance Lead Halide Perovskite: Additive vs Dopant?. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 11636-11644.	4.6	13
32	Incorporation of Two-Dimensional WSe_2 into MAPbI_3 Perovskite for Efficient and Stable Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6883-6888.	4.6	12
33	Cs-content-dependent organic cation exchange in FA1-Cs PbI_3 perovskite. <i>Journal of Energy Chemistry</i> , 2022, 72, 539-544.	12.9	12
34	MA Cation-Induced Diffusional Growth of Low-Bandgap FA-Cs Perovskites Driven by Natural Gradient Annealing. <i>Research</i> , 2021, 2021, 9765106.	5.7	8
35	High-Brightness Perovskite Microcrystalline Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2963-2968.	4.6	5
36	Stable Pure Iodide $\text{MA}_{0.95}\text{Cs}_{0.05}\text{PbI}_3$ Perovskite toward Efficient 1.6 eV Bandgap Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5088-5093.	4.6	5

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37	Synergetic effects of DMA cation doping and Cl anion additives induced re-growth of MA _{1-x} DMA _x PbI ₃ perovskites. Sustainable Energy and Fuels, 2021, 5, 2860-2864.	4.9	4
38	10.1063/1.4999630.2., 2017,,.		0