

# Yu Cao

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

5,130  
citations

393982

19  
h-index

676716

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

5806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perovskite light-emitting diodes based on spontaneously formed submicrometre-scale structures. <i>Nature</i> , 2018, 562, 249-253.	13.7	1,555
2	Perovskite light-emitting diodes based on solution-processed self-organized multiple quantum wells. <i>Nature Photonics</i> , 2016, 10, 699-704.	15.6	1,535
3	Minimising efficiency roll-off in high-brightness perovskite light-emitting diodes. <i>Nature Communications</i> , 2018, 9, 608.	5.8	322
4	Oriented Quasi-2D Perovskites for High Performance Optoelectronic Devices. <i>Advanced Materials</i> , 2018, 30, e1804771.	11.1	268
5	Benzylamine-treated Wide-Bandgap Perovskite with High Thermal-Photostability and Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2017, 7, 1701048.	10.2	188
6	Unveiling the additive-assisted oriented growth of perovskite crystallite for high performance light-emitting diodes. <i>Nature Communications</i> , 2021, 12, 5081.	5.8	178
7	Efficient Red Perovskite Light-Emitting Diodes Based on Solution-Processed Multiple Quantum Wells. <i>Advanced Materials</i> , 2017, 29, 1606600.	11.1	155
8	Multiple-Quantum-Well Perovskites for High-Performance Light-Emitting Diodes. <i>Advanced Materials</i> , 2020, 32, e1904163.	11.1	129
9	Stable and bright formamidinium-based perovskite light-emitting diodes with high energy conversion efficiency. <i>Nature Communications</i> , 2019, 10, 3624.	5.8	104
10	Efficient and bright warm-white electroluminescence from lead-free metal halides. <i>Nature Communications</i> , 2021, 12, 1421.	5.8	99
11	Microcavity top-emission perovskite light-emitting diodes. <i>Light: Science and Applications</i> , 2020, 9, 89.	7.7	96
12	Sky-blue perovskite light-emitting diodes based on quasi-two-dimensional layered perovskites. <i>Chinese Chemical Letters</i> , 2017, 28, 29-31.	4.8	94
13	Tin-Based Multiple Quantum Well Perovskites for Light-Emitting Diodes with Improved Stability. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 453-459.	2.1	72
14	Heterogeneous Photon Recycling and Charge Diffusion Enhance Charge Transport in Quasi-2D Lead-Halide Perovskite Films. <i>Nano Letters</i> , 2019, 19, 3953-3960.	4.5	67
15	Defect Passivation for Red Perovskite Light-Emitting Diodes with Improved Brightness and Stability. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 380-385.	2.1	55
16	Control of Barrier Width in Perovskite Multiple Quantum Wells for High Performance Green Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2019, 7, 1801575.	3.6	55
17	The formation of perovskite multiple quantum well structures for high performance light-emitting diodes. <i>Npj Flexible Electronics</i> , 2018, 2, .	5.1	46
18	Sulfonic Zwitterion for Passivating Deep and Shallow Level Defects in Perovskite Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	37

#	ARTICLE	IF	CITATIONS
19	Low Roll-Off and High Stable Electroluminescence in Three-Dimensional FAPbI <sub>3</sub> Perovskites with Bifunctional-Molecule Additives. Nano Letters, 2021, 21, 3738-3744.	4.5	33
20	Inhomogeneous degradation in metal halide perovskites. Applied Physics Letters, 2017, 111, .	1.5	19
21	Perovskite Light-Emitting Diodes with Near Unit Internal Quantum Efficiency at Low Temperatures. Advanced Materials, 2021, 33, e2006302.	11.1	16
22	Efficient charge separation at multiple quantum well perovskite/PCBM interface. Applied Physics Letters, 2018, 113, .	1.5	7
23	10.1063/1.4999630.2. , 2017, , .		0