

# Jiakai Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

23  
papers

4,220  
citations

471509

17  
h-index

677142

22  
g-index

23  
all docs

23  
docs citations

23  
times ranked

5947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Efficient Perovskite Quantum Dot Light-Emitting Diodes by Surface Engineering. <i>Advanced Materials</i> , 2016, 28, 8718-8725.	21.0	917
2	Managing grains and interfaces via ligand anchoring enables 22.3%-efficiency inverted perovskite solar cells. <i>Nature Energy</i> , 2020, 5, 131-140.	39.5	894
3	Air-Stable Surface-Passivated Perovskite Quantum Dots for Ultra-Robust, Single- and Two-Photon-Induced Amplified Spontaneous Emission. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 5027-5033.	4.6	466
4	A Simple n-Dopant Derived from Diquat Boosts the Efficiency of Organic Solar Cells to 18.3%. <i>ACS Energy Letters</i> , 2020, 5, 3663-3671.	17.4	253
5	Quantum Dots Supply Bulk- and Surface-Passivation Agents for Efficient and Stable Perovskite Solar Cells. <i>Joule</i> , 2019, 3, 1963-1976.	24.0	222
6	Perovskite Nanocrystals as a Color Converter for Visible Light Communication. <i>ACS Photonics</i> , 2016, 3, 1150-1156.	6.6	221
7	All-Inorganic Quantum Dot LEDs Based on a Phase-Stabilized $\text{CsPbI}_3$ Perovskite. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16164-16170.	13.8	210
8	Chlorine Vacancy Passivation in Mixed Halide Perovskite Quantum Dots by Organic Pseudohalides Enables Efficient Rec. 2020 Blue Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2020, 5, 793-798.	17.4	208
9	Engineering of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 10686-10690.	13.8	152
10	Monolayer Perovskite Bridges Enable Strong Quantum Dot Coupling for Efficient Solar Cells. <i>Joule</i> , 2020, 4, 1542-1556.	24.0	143
11	Light-Induced Self-Assembly of Cubic $\text{CsPbBr}_3$ Perovskite Nanocrystals into Nanowires. <i>Chemistry of Materials</i> , 2019, 31, 6642-6649.	6.7	119
12	$\text{CsMnBr}_3$ : Lead-Free Nanocrystals with High Photoluminescence Quantum Yield and Picosecond Radiative Lifetime. , 2021, 3, 290-297.		86
13	Robust and air-stable sandwiched organo-lead halide perovskites for photodetector applications. <i>Journal of Materials Chemistry C</i> , 2016, 4, 2545-2552.	5.5	53
14	Solvent-Solute Coordination Engineering for Efficient Perovskite Luminescent Solar Concentrators. <i>Joule</i> , 2020, 4, 631-643.	24.0	53
15	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16077-16081.	13.8	49
16	Self-Assembly and Regrowth of Metal Halide Perovskite Nanocrystals for Optoelectronic Applications. <i>Accounts of Chemical Research</i> , 2022, 55, 262-274.	15.6	49
17	Shape-Tunable Charge Carrier Dynamics at the Interfaces between Perovskite Nanocrystals and Molecular Acceptors. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3913-3919.	4.6	43
18	Overcoming Degradation Pathways to Achieve Stable Blue Perovskite Light-Emitting Diodes. <i>ACS Energy Letters</i> , 2022, 7, 1348-1354.	17.4	28

#	ARTICLE	IF	CITATIONS
19	Engineering of CH <sub>3</sub> NH <sub>3</sub> Pb <sub>3</sub> Perovskite Crystals by Alloying Large Organic Cations for Enhanced Thermal Stability and Transport Properties. <i>Angewandte Chemie</i> , 2016, 128, 10844-10848.	2.0	18
20	Halogen Vacancies Enable Ligand-Assisted Self-Assembly of Perovskite Quantum Dots into Nanowires. <i>Angewandte Chemie</i> , 2019, 131, 16223-16227.	2.0	16
21	Cyanamide Passivation Enables Robust Elemental Imaging of Metal Halide Perovskites at Atomic Resolution. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10402-10409.	4.6	15
22	The ultralow thermal conductivity and tunable thermoelectric properties of surfactant-free SnSe nanocrystals. <i>RSC Advances</i> , 2021, 11, 28072-28080.	3.6	4
23	All-Inorganic Quantum-Dot LEDs Based on a Phase-Stabilized $\text{I}^{\pm}\text{CsPbI}_3$ Perovskite. <i>Angewandte Chemie</i> , 2021, 133, 16300-16306.	2.0	1