

# Minliang Lai

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

5,157  
citations

236925

25  
h-index

526287

27  
g-index

29  
all docs

29  
docs citations

29  
times ranked

7601  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomically thin two-dimensional organic-inorganic hybrid perovskites. <i>Science</i> , 2015, 349, 1518-1521.	12.6	1,159
2	Lasing in robust cesium lead halide perovskite nanowires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1993-1998.	7.1	668
3	Thermochromic halide perovskite solar cells. <i>Nature Materials</i> , 2018, 17, 261-267.	27.5	630
4	Synthesis of Composition Tunable and Highly Luminescent Cesium Lead Halide Nanowires through Anion-Exchange Reactions. <i>Journal of the American Chemical Society</i> , 2016, 138, 7236-7239.	13.7	397
5	Growth and Anion Exchange Conversion of $\text{CH}_3\text{NH}_3\text{PbX}_3$ Nanorod Arrays for Light-Emitting Diodes. <i>Nano Letters</i> , 2015, 15, 5519-5524.	9.1	342
6	Two-dimensional halide perovskite lateral epitaxial heterostructures. <i>Nature</i> , 2020, 580, 614-620.	27.8	284
7	Ultralow thermal conductivity in all-inorganic halide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8693-8697.	7.1	246
8	Spatially resolved multicolor $\text{CsPbX}_3$ nanowire heterojunctions via anion exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7216-7221.	7.1	178
9	Intrinsic anion diffusivity in lead halide perovskites is facilitated by a soft lattice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11929-11934.	7.1	153
10	Excited-state vibrational dynamics toward the polaron in methylammonium lead iodide perovskite. <i>Nature Communications</i> , 2018, 9, 2525.	12.8	129
11	Structural, optical, and electrical properties of phase-controlled cesium lead iodide nanowires. <i>Nano Research</i> , 2017, 10, 1107-1114.	10.4	128
12	Rich Chemistry in Inorganic Halide Perovskite Nanostructures. <i>Advanced Materials</i> , 2018, 30, e1802856.	21.0	106
13	Structural and spectral dynamics of single-crystalline Ruddlesden-Popper phase halide perovskite blue light-emitting diodes. <i>Science Advances</i> , 2020, 6, eaay4045.	10.3	88
14	Quantitative imaging of anion exchange kinetics in halide perovskites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12648-12653.	7.1	84
15	Phase Transitions and Anion Exchange in All-Inorganic Halide Perovskites. <i>Accounts of Materials Research</i> , 2020, 1, 3-15.	11.7	67
16	Giant Light-Emission Enhancement in Lead Halide Perovskites by Surface Oxygen Passivation. <i>Nano Letters</i> , 2018, 18, 6967-6973.	9.1	59
17	Self-Assembly of Two-Dimensional Perovskite Nanosheet Building Blocks into Ordered Ruddlesden-Popper Perovskite Phase. <i>Journal of the American Chemical Society</i> , 2019, 141, 13028-13032.	13.7	59
18	Critical Role of Methylammonium Librational Motion in Methylammonium Lead Iodide ( $\text{CH}_3\text{NH}_3\text{PbI}_3$ ) Perovskite Photochemistry. <i>Nano Letters</i> , 2017, 17, 4151-4157.	9.1	55

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19	Electrical and Optical Tunability in All-Inorganic Halide Perovskite Alloy Nanowires. Nano Letters, 2018, 18, 3538-3542.	9.1	51
20	Halide perovskite nanocrystal arrays: Multiplexed synthesis and size-dependent emission. Science Advances, 2020, 6, .	10.3	51
21	Phase-transition-induced p-n junction in single halide perovskite nanowire. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8889-8894.	7.1	48
22	Two-Step Patterning of Scalable All-Inorganic Halide Perovskite Arrays. ACS Nano, 2020, 14, 3500-3508.	14.6	44
23	Liquid-like Interfaces Mediate Structural Phase Transitions in Lead Halide Perovskites. Matter, 2020, 3, 534-545.	10.0	42
24	Copper(I)-Based Highly Emissive All-Inorganic Rare-Earth Halide Clusters. Matter, 2019, 1, 180-191.	10.0	35
25	Effect of Anisotropic Confinement on Electronic Structure and Dynamics of Band Edge Excitons in Inorganic Perovskite Nanowires. Journal of Physical Chemistry A, 2020, 124, 1867-1876.	2.5	33
26	Solid-State Ionic Rectification in Perovskite Nanowire Heterostructures. Nano Letters, 2020, 20, 8151-8156.	9.1	12
27	Phase transition dynamics in one-dimensional halide perovskite crystals. MRS Bulletin, 2021, 46, 310-316.	3.5	8
28	Phase transition dynamics in one-dimensional halide perovskite crystals. MRS Bulletin, 0, , 1-7.	3.5	1
29	Resolving Carrier Dynamics in Metal Halide Perovskites to Elucidate Structural Transformation Mechanisms and the Impact of Structural Heterogeneity on Transport. , 0, , .		0