

# Minliang Lai

## List of Publications by Year in descending order

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29  
papers

5,157  
citations

236925

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h-index

526287

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g-index

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docs citations

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times ranked

7601  
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase transition dynamics in one-dimensional halide perovskite crystals. <i>MRS Bulletin</i> , 2021, 46, 310-316.	3.5	8
2	Solid-State Ionic Rectification in Perovskite Nanowire Heterostructures. <i>Nano Letters</i> , 2020, 20, 8151-8156.	9.1	12
3	Liquid-like Interfaces Mediate Structural Phase Transitions in Lead Halide Perovskites. <i>Matter</i> , 2020, 3, 534-545.	10.0	42
4	Halide perovskite nanocrystal arrays: Multiplexed synthesis and size-dependent emission. <i>Science Advances</i> , 2020, 6, .	10.3	51
5	Phase Transitions and Anion Exchange in All-Inorganic Halide Perovskites. <i>Accounts of Materials Research</i> , 2020, 1, 3-15.	11.7	67
6	Two-Step Patterning of Scalable All-Inorganic Halide Perovskite Arrays. <i>ACS Nano</i> , 2020, 14, 3500-3508.	14.6	44
7	Effect of Anisotropic Confinement on Electronic Structure and Dynamics of Band Edge Excitons in Inorganic Perovskite Nanowires. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1867-1876.	2.5	33
8	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
9	Two-dimensional halide perovskite lateral epitaxial heterostructures. <i>Nature</i> , 2020, 580, 614-620.	27.8	284
10	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.	18.7	59
11	Copper(I)-Based Highly Emissive All-Inorganic Rare-Earth Halide Clusters. <i>Matter</i> , 2019, 1, 180-191.	10.0	35
12	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
13	Thermochromic halide perovskite solar cells. <i>Nature Materials</i> , 2018, 17, 261-267.	27.5	630
14	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
15	Giant Light-Emission Enhancement in Lead Halide Perovskites by Surface Oxygen Passivation. <i>Nano Letters</i> , 2018, 18, 6967-6973.	9.1	59
16	Rich Chemistry in Inorganic Halide Perovskite Nanostructures. <i>Advanced Materials</i> , 2018, 30, e1802856.	21.0	106
17	Electrical and Optical Tunability in All-Inorganic Halide Perovskite Alloy Nanowires. <i>Nano Letters</i> , 2018, 18, 3538-3542.	9.1	51
18	Excited-state vibrational dynamics toward the polaron in methylammonium lead iodide perovskite. <i>Nature Communications</i> , 2018, 9, 2525.	12.8	129

#	ARTICLE	IF	CITATIONS
19	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
20	Structural, optical, and electrical properties of phase-controlled cesium lead iodide nanowires. Nano Research, 2017, 10, 1107-1114.	10.4	128
21	Critical Role of Methylammonium Librational Motion in Methylammonium Lead Iodide (CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> ) Perovskite Photochemistry. Nano Letters, 2017, 17, 4151-4157.	9.1	55
22	Ultralow thermal conductivity in all-inorganic halide perovskites. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8693-8697.	7.1	246
23	Spatially resolved multicolor CsPbX <sub>3</sub> nanowire heterojunctions via anion exchange. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7216-7221.	7.1	178
24	Synthesis of Composition Tunable and Highly Luminescent Cesium Lead Halide Nanowires through Anion-Exchange Reactions. Journal of the American Chemical Society, 2016, 138, 7236-7239.	13.7	397
25	Lasing in robust cesium lead halide perovskite nanowires. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1993-1998.	7.1	668
26	Growth and Anion Exchange Conversion of CH <sub>3</sub> NH <sub>3</sub> PbX <sub>3</sub> Nanorod Arrays for Light-Emitting Diodes. Nano Letters, 2015, 15, 5519-5524.	9.1	342
27	Atomically thin two-dimensional organic-inorganic hybrid perovskites. Science, 2015, 349, 1518-1521.	12.6	1,159
28	Resolving Carrier Dynamics in Metal Halide Perovskites to Elucidate Structural Transformation Mechanisms and the Impact of Structural Heterogeneity on Transport. , 0, , .		0
29	Phase transition dynamics in one-dimensional halide perovskite crystals. MRS Bulletin, 0, , 1-7.	3.5	1