Haipeng Lu

List of Publications by Year
in descending order

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46	3,756	186265	254184
papers	citations	28 h-index	43 g-index

47	47	47	4252
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the optical anisotropy in 2D metal-halide perovskites. Nanoscale, 2022, 14, 752-765.	5.6	15
2	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. Science, 2022, 375, 71-76.	12.6	216
3	Chiral Halogenometalate Hybrids for Spin Manipulation. , 2022, , 137-158.		0
4	Chemical Control of Magnetic Ordering in Hybrid Feâ€“Cl Layered Double Perovskites. Chemistry of Materials, 2022, 34, 2813-2823.	6.7	27
5	Carrier control in Snâ€“Pb perovskites via 2D cation engineering for all-perovskite tandem solar cells with improved efficiency and stability. Nature Energy, 2022, 7, 642-651.	39.5	121
6	Control of light, spin and charge with chiral metal halide semiconductors. Nature Reviews Chemistry, 2022, 6, 470-485.	30.2	58
7	Spin-Dependent Photovoltaic and Photogalvanic Responses of Optoelectronic Devices Based on Chiral Two-Dimensional Hybrid Organicâ€“Inorganic Perovskites. ACS Nano, 2021, 15, 588-595.	14.6	85
8	Structural Insights on Microwave-Synthesized Antimony-Doped Germanium Nanocrystals. ACS Nano, 2021, 15, 1685-1700.	14.6	7
9	Charge transfer states and carrier generation in 1D organolead iodide semiconductors. Journal of Materials Chemistry A, 2021, 9, 14977-14990.	10.3	15
10	A Multi-Dimensional Perspective on Electronic Doping in Metal Halide Perovskites. ACS Energy Letters, 2021, 6, 1104-1123.	17.4	38
11	Chiral-induced spin selectivity enables a room-temperature spin light-emitting diode. Science, 2021, 371, 1129-1133.	12.6	340
12	Surface lattice engineering through three-dimensional lead iodide perovskitoid for high-performance perovskite solar cells. CheM, 2021, 7, 774-785.	11.7	37
13	Direct Detection of Circularly Polarized Light Using Chiral Copper Chlorideâ€“Carbon Nanotube Heterostructures. ACS Nano, 2021, 15, 7608-7617.	14.6	69
14	Spin selectivity in chiral metalâ€“halide semiconductors. Nanoscale, 2021, 13, 18925-18940.	5.6	26
15	Tuning Spin-Polarized Lifetime in Two-Dimensional Metalâ€“Halide Perovskite through Exciton Binding Energy. Journal of the American Chemical Society, 2021, 143, 19438-19445.	13.7	42
16	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. Science, 2021, , eabj2637.	12.6	2
17	Origin of Broad-Band Emission and Impact of Structural Dimensionality in Tin-Alloyed Ruddlesdenâ€“Popper Hybrid Lead Iodide Perovskites. ACS Energy Letters, 2020, 5, 347-352.	17.4	55
18	Perovskite Electronic Ratchets for Energy Harvesting. Advanced Electronic Materials, 2020, 6, 2000831.	5.1	7

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19	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wideâ€Bandgap Perovskite Solar Cells Beyond 21%. Solar Rrl, 2020, 4, 2070065.	5.8	2
20	Synthesis and Electrocatalytic HER Studies of Carbene-Ligated Cu_{3â€“x}P Nanocrystals. ACS Applied Materials & Interfaces, 2020, 12, 16394-16401.	8.0	19
21	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wideâ€Bandgap Perovskite Solar Cells Beyond 21%. Solar Rrl, 2020, 4, 2000082.	5.8	79
22	Role of Exciton Binding Energy on LO Phonon Broadening and Polaron Formation in (BA)2PbI4 Ruddlesdenâ€“Popper Films. Journal of Physical Chemistry C, 2020, 124, 9496-9505.	3.1	18
23	Transforming energy using quantum dots. Energy and Environmental Science, 2020, 13, 1347-1376.	30.8	76
24	Highly Distorted Chiral Two-Dimensional Tin Iodide Perovskites for Spin Polarized Charge Transport. Journal of the American Chemical Society, 2020, 142, 13030-13040.	13.7	198
25	Strategies to Achieve High Circularly Polarized Luminescence from Colloidal Organicâ€“Inorganic Hybrid Perovskite Nanocrystals. ACS Nano, 2020, 14, 8816-8825.	14.6	94
26	Advances in two-dimensional organicâ€“inorganic hybrid perovskites. Energy and Environmental Science, 2020, 13, 1154-1186.	30.8	420
27	Ultrafast Reaction Mechanisms in Perovskite Based Photocatalytic Câ€“C Coupling. ACS Energy Letters, 2020, 5, 566-571.	17.4	61
28	Bimolecular Additives Improve Wide-Band-Gap Perovskites for Efficient Tandem Solar Cells with CIGS. Joule, 2019, 3, 1734-1745.	24.0	227
29	Enhanced Charge Transport in 2D Perovskites via Fluorination of Organic Cation. Journal of the American Chemical Society, 2019, 141, 5972-5979.	13.7	274
30	Designing Janus Ligand Shells on PbS Quantum Dots using Ligandâ€“Ligand Cooperativity. ACS Nano, 2019, 13, 3839-3846.	14.6	23
31	Sensitizing Singlet Fission with Perovskite Nanocrystals. Journal of the American Chemical Society, 2019, 141, 4919-4927.	13.7	83
32	Enhanced photoredox activity of CsPbBr3 nanocrystals by quantitative colloidal ligand exchange. Journal of Chemical Physics, 2019, 151, 204305.	3.0	52
33	Spin-dependent charge transport through 2D chiral hybrid lead-iodide perovskites. Science Advances, 2019, 5, eaay0571.	10.3	275
34	Infrared Quantum Dots: Progress, Challenges, and Opportunities. ACS Nano, 2019, 13, 939-953.	14.6	153
35	Excitonic Effects in Methylammonium Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 2595-2603.	4.6	107
36	n-Type PbSe Quantum Dots via Post-Synthetic Indium Doping. Journal of the American Chemical Society, 2018, 140, 13753-13763.	13.7	28

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37	Impact of Layer Thickness on the Charge Carrier and Spin Coherence Lifetime in Two-Dimensional Layered Perovskite Single Crystals. ACS Energy Letters, 2018, 3, 2273-2279.	17.4	126
38	Hybrid Polymer: Nanocrystal Solar Cells. Materials and Energy, 2018, , 405-444.	0.1	0
39	Tunable Room-Temperature Synthesis of Coinage Metal Chalcogenide Nanocrystals from N-Heterocyclic Carbene Synthons. Chemistry of Materials, 2017, 29, 1396-1403.	6.7	31
40	Bismuth Doping of Germanium Nanocrystals through Colloidal Chemistry. Chemistry of Materials, 2017, 29, 7353-7363.	6.7	26
41	Exposing the Dynamics and Energetics of the N-Heterocyclic Carbeneâ€“Nanocrystal Interface. Journal of the American Chemical Society, 2016, 138, 14844-14847.	13.7	34
42	Iodide-Passivated Colloidal PbS Nanocrystals Leading to Highly Efficient Polymer:Nanocrystal Hybrid Solar Cells. Chemistry of Materials, 2016, 28, 1897-1906.	6.7	71
43	Tandem and Triple-Junction Polymer:Nanocrystal Hybrid Solar Cells Consisting of Identical Subcells. ACS Applied Materials & Interfaces, 2014, 6, 18306-18311.	8.0	5
44	Silver-Mediated Câ€“H Activation: Oxidative Coupling/Cyclization of N-Arylimines and Alkynes for the Synthesis of Quinolines. Journal of Organic Chemistry, 2012, 77, 501-510.	3.2	101
45	Ultrafast Kinetic DNA Hybridization Assay Based on the Visualization of Threshold Turbidity. Analytical Chemistry, 2012, 84, 3500-3506.	6.5	3
46	Structural Asymmetry and Chiroptical Activity of Chiral Antimonyâ€Halide Hybrids. European Journal of Inorganic Chemistry, 0, , .	2.0	10