

Hong Lin

List of Publications by Year in descending order

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88
papers

5,228
citations

101543

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all docs

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docs citations

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times ranked

7844
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing the Brightness of Cesium Lead Halide Perovskite Nanocrystal Based Green Light-Emitting Devices through the Interface Engineering with Perfluorinated Ionomer. <i>Nano Letters</i> , 2016, 16, 1415-1420.	9.1	685
2	Charge selective contacts, mobile ions and anomalous hysteresis in organic-inorganic perovskite solar cells. <i>Materials Horizons</i> , 2015, 2, 315-322.	12.2	366
3	All-Carbon Electrode-Based Endurable Flexible Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1706777.	14.9	242
4	Experimental and simulation-based understanding of morphology controlled barium titanate nanoparticles under co-adsorption of surfactants. <i>CrystEngComm</i> , 2017, 19, 3288-3298.	2.6	190
5	Aluminum-Doped Zinc Oxide as Highly Stable Electron Collection Layer for Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7826-7833.	8.0	188
6	Nucleation, Growth, and Structural Transformations of Perovskite Nanocrystals. <i>Chemistry of Materials</i> , 2017, 29, 1302-1308.	6.7	188
7	Perovskite solar cells: must lead be replaced and can it be done?. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 425-442.	6.1	151
8	High Efficiency Inverted Planar Perovskite Solar Cells with Solution-Processed NiO Hole Contact. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 2439-2448.	8.0	139
9	Iodide-reduced graphene oxide with dopant-free spiro-OMeTAD for ambient stable and high-efficiency perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15996-16004.	10.3	134
10	Carbon Nanotube Based Inverted Flexible Perovskite Solar Cells with All-Inorganic Charge Contacts. <i>Advanced Functional Materials</i> , 2017, 27, 1703068.	14.9	132
11	Efficient Perovskite Solar Cells Depending on TiO ₂ Nanorod Arrays. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21358-21365.	8.0	126
12	Artemisinin-passivated mixed-cation perovskite films for durable flexible perovskite solar cells with over 21% efficiency. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1574-1582.	10.3	126
13	Competition between Metallic and Vacancy Defect Conductive Filaments in a CH ₃ NH ₃ PbI ₃ -Based Memory Device. <i>Journal of Physical Chemistry C</i> , 2018, 122, 6431-6436.	3.1	115
14	Hybrid PbS Quantum Dot Perovskite for High-Efficiency Perovskite Solar Cell. <i>Small</i> , 2018, 14, e180101610.0	10.0	111
15	Hematite electron-transporting layers for environmentally stable planar perovskite solar cells with enhanced energy conversion and lower hysteresis. <i>Journal of Materials Chemistry A</i> , 2017, 5, 1434-1441.	10.3	95
16	Flexible quintuple cation perovskite solar cells with high efficiency. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4960-4970.	10.3	93
17	Cross-stacked superaligned carbon nanotube electrodes for efficient hole conductor-free perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5569-5577.	10.3	92
18	Recent progress in efficient hybrid lead halide perovskite solar cells. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 036004.	6.1	87

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19	To Be Higher and Stronger—Metal Oxide Electron Transport Materials for Perovskite Solar Cells. <i>Small</i> , 2020, 16, e1902579.	10.0	80
20	Ni-doped Fe_2O_3 as electron transporting material for planar heterojunction perovskite solar cells with improved efficiency, reduced hysteresis and ultraviolet stability. <i>Nano Energy</i> , 2017, 38, 193-200.	16.0	75
21	Enhancing the Performance of Perovskite Solar Cells by Hybridizing SnS Quantum Dots with $\text{CH}_3\text{NH}_3\text{PbI}_3$. <i>Small</i> , 2017, 13, 1700953.	10.0	73
22	Boosting Multiple Interfaces by Co-Doped Graphene Quantum Dots for High Efficiency and Durability Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13941-13949.	8.0	69
23	Efficiently Improving the Stability of Inverted Perovskite Solar Cells by Employing Polyethylenimine-Modified Carbon Nanotubes as Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31384-31393.	8.0	68
24	Enhancing electron transport via graphene quantum dot/ SnO_2 composites for efficient and durable flexible perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1878-1888.	10.3	67
25	In situ formation of a 2D/3D heterostructure for efficient and stable CsPb_2Br solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22675-22682.	10.3	63
26	Critical roles of potassium in charge-carrier balance and diffusion induced defect passivation for efficient inverted perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5666-5676.	10.3	62
27	Improved efficient perovskite solar cells based on Ta-doped TiO_2 nanorod arrays. <i>Nanoscale</i> , 2017, 9, 18897-18907.	5.6	59
28	Type-II Quantum-Dot-Sensitized Solar Cell Spanning the Visible and Near-Infrared Spectrum. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22203-22210.	3.1	58
29	Working from Both Sides: Composite Metallic Semitransparent Top Electrode for High Performance Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4523-4531.	8.0	56
30	Dual Role of Amino-Functionalized Graphene Quantum Dots in NiO_x Films for Efficient Inverted Flexible Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8342-8350.	8.0	56
31	Thiazole-Induced Surface Passivation and Recrystallization of $\text{CH}_3\text{NH}_3\text{PbI}_3$ Films for Perovskite Solar Cells with Ultrahigh Fill Factors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42436-42443.	8.0	49
32	A novel 2D perovskite as surface "patches" for efficient flexible perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7808-7818.	10.3	48
33	Synergistic effect of charge separation and defect passivation using zinc porphyrin dye incorporation for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26334-26341.	10.3	44
34	Low temperature reduction of free-standing graphene oxide papers with metal iodides for ultrahigh bulk conductivity. <i>Scientific Reports</i> , 2014, 4, 3965.	3.3	43
35	$\text{CH}_3\text{NH}_3\text{PbI}_3$ grain growth and interfacial properties in meso-structured perovskite solar cells fabricated by two-step deposition. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 253-262.	6.1	42
36	Ultrathin Zn_2SnO_4 (ZTO) passivated ZnO nanocone arrays for efficient and stable perovskite solar cells. <i>Chemical Engineering Journal</i> , 2019, 361, 60-66.	12.7	39

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37	Exfoliated Fluorographene Quantum Dots as Outstanding Passivants for Improved Flexible Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 22992-23001.	8.0	38
38	Perovskite/Poly[bis(4-phenyl)(2,4,6-trimethylphenyl)amine] Bulk Heterojunction for High-Efficient Carbon-Based Large-Area Solar Cells by Gradient Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42328-42334.	8.0	37
39	Recent Advances in Carbon Nanotube Utilizations in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2004765.	14.9	37
40	All-Solution-Processed Cu ₂ ZnSnS ₄ Solar Cells with Self-Depleted Na ₂ S Back Contact Modification Layer. <i>Advanced Functional Materials</i> , 2018, 28, 1703369.	14.9	36
41	Enhanced Photocatalytic Property of $\text{I}^3\text{-CsPbI}_3$ Perovskite Nanocrystals with WS ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1219-1229.	6.7	33
42	Goethite Quantum Dots as Multifunctional Additives for Highly Efficient and Stable Perovskite Solar Cells. <i>Small</i> , 2019, 15, e1904372.	10.0	32
43	In situ growth of $\text{I}^{\pm}\text{-CsPbI}_3$ perovskite nanocrystals on the surface of reduced graphene oxide with enhanced stability and carrier transport quality. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6795-6804.	5.5	31
44	Improved Moisture Stability of Perovskite Solar Cells Using N719 Dye Molecules. <i>Solar Rrl</i> , 2019, 3, 1900345.	5.8	30
45	Perovskite solar cell-thermoelectric tandem system with a high efficiency of over 23%. <i>Materials Today Energy</i> , 2019, 12, 363-370.	4.7	30
46	Bifacial Modified Charge Transport Materials for Highly Efficient and Stable Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17861-17870.	8.0	29
47	Preheating-assisted deposition of solution-processed perovskite layer for an efficiency-improved inverted planar composite heterojunction solar cell. <i>RSC Advances</i> , 2016, 6, 30978-30985.	3.6	28
48	Strain-Induced Type II Band Alignment Control in CdSe Nanoplatelet/ZnS-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11136-11143.	3.1	28
49	An Excellent Modifier: Carbon Quantum Dots for Highly Efficient Carbon-Electrode-Based Methylammonium Lead Iodide Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1900146.	5.8	27
50	Atomic Chromium Coordinated Graphitic Carbon Nitride for Bioinspired Antibiofouling in Seawater. <i>Advanced Science</i> , 2022, 9, e2105346.	11.2	27
51	Bending Durable and Recyclable Mesoporous Perovskite Solar Cells Based on Superaligned ZnO Nanorod Electrode. <i>Solar Rrl</i> , 2018, 2, 1700194.	5.8	25
52	Role of alkyl chain length in diaminoalkane linked 2D Ruddlesden-Popper halide perovskites. <i>CrystEngComm</i> , 2018, 20, 6704-6712.	2.6	25
53	Facile in situ synthesis of dendrite-like ZnO/ZnTe core/shell nanorod heterostructures for sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4740-4747.	5.5	24
54	Highly efficient inverted perovskite solar cells based on self-assembled graphene derivatives. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20702-20711.	10.3	22

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55	Cesium-Containing Perovskite Solar Cell Based on Graphene/TiO ₂ Electron Transport Layer. <i>ChemistrySelect</i> , 2017, 2, 9433-9437.	1.5	21
56	Rational Design of Solution-Processed Ti-Fe-O Ternary Oxides for Efficient Planar CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells with Suppressed Hysteresis. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34833-34843.	8.0	21
57	Low-cost preparation of a conductive and catalytic graphene film from chemical reduction with AlI ₃ . <i>Carbon</i> , 2012, 50, 3497-3502.	10.3	20
58	Study of Quantum Dot/Inorganic Layer/Dye Molecule Sandwich Structure for Electrochemical Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15185-15191.	3.1	18
59	Preparation of aluminum doped zinc oxide films with low resistivity and outstanding transparency by a sol-gel method for potential applications in perovskite solar cell. <i>Thin Solid Films</i> , 2016, 605, 208-214.	1.8	18
60	Band alignment and charge transfer in CsPbBr ₃ -CdSe nanoplatelet hybrids coupled by molecular linkers. <i>Journal of Chemical Physics</i> , 2019, 151, 174704.	3.0	18
61	Improved phase stability of ³⁺ -CsPbI ₃ perovskite nanocrystals using the interface effect using iodine modified graphene oxide. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2569-2578.	5.5	18
62	Inhibition of charge transfer and recombination processes in CdS/N719 co-sensitized solar cell with high conversion efficiency. <i>Electrochimica Acta</i> , 2016, 191, 16-22.	5.2	17
63	Improved charge separation and transport efficiency in panchromatic-sensitized solar cells with co-sensitization of PbS/CdS/ZnS quantum dots and dye molecules. <i>RSC Advances</i> , 2016, 6, 21156-21164.	3.6	17
64	Flash-evaporation printing methodology for perovskite thin films. <i>NPG Asia Materials</i> , 2017, 9, e395-e395.	7.9	17
65	Cost effective synthesis of p-type Zn-doped MgAgSb by planetary ball-milling with enhanced thermoelectric properties. <i>RSC Advances</i> , 2018, 8, 35353-35359.	3.6	17
66	A highly-efficient concentrated perovskite solar cell-thermoelectric generator tandem system. <i>Journal of Energy Chemistry</i> , 2021, 59, 730-735.	12.9	16
67	Tunable Crystallization and Nucleation of Planar CH ₃ NH ₃ PbI ₃ through Solvent-Modified Interdiffusion. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14673-14683.	8.0	14
68	Gamma-phase CsPbBr ₃ perovskite nanocrystals/polymethyl methacrylate electrospun nanofibrous membranes with superior photo-catalytic property. <i>Journal of Chemical Physics</i> , 2020, 153, 024703.	3.0	14
69	Inverted Perovskite Solar Cells with Efficient Mixed Fullerene Derivative Charge Extraction Layers. <i>ChemistrySelect</i> , 2018, 3, 6802-6809.	1.5	13
70	Realizing zinc-doping of CdS buffer layer via partial electrolyte treatment to improve the efficiency of Cu ₂ ZnSnS ₄ solar cells. <i>Chemical Engineering Journal</i> , 2018, 351, 791-798.	12.7	11
71	Recent progress in meniscus coating for large-area perovskite solar cells and solar modules. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1926-1951.	4.9	11
72	Vertically aligned ZnO/ZnTe core/shell heterostructures on an AZO substrate for improved photovoltaic performance. <i>RSC Advances</i> , 2017, 7, 14837-14845.	3.6	10

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73	Laser-Induced Flash-Evaporation Printing $\text{CH}_3\text{NH}_3\text{PbI}_3$ Thin Films for High-Performance Planar Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26206-26212.	8.0	10
74	Solution-processed Kesterite $\text{Cu}_2\text{ZnSnS}_4$ as Efficient Hole Extraction Layer for Inverted Perovskite Solar Cells. <i>Chemistry Letters</i> , 2018, 47, 817-820.	1.3	9
75	Reduced Graphene Oxide/CZTS xSe Composites as a Novel Hole-Transport Functional Layer in Perovskite Solar Cells. <i>ChemElectroChem</i> , 2019, 6, 1500-1507.	3.4	9
76	Perovskite photodetectors prepared by flash evaporation printing. <i>RSC Advances</i> , 2017, 7, 34795-34800.	3.6	8
77	High Efficient Large-area Perovskite Solar Cells Based on Paintable Carbon Electrode with NiO Nanocrystal-carbon Intermediate Layer. <i>Chemistry Letters</i> , 2019, 48, 734-737.	1.3	8
78	Suppressed phase transition of a Rb/K incorporated inorganic perovskite with a water-repelling surface. <i>Nanoscale</i> , 2020, 12, 6571-6581.	5.6	8
79	New insights into the origin of hysteresis behavior in perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16285-16293.	2.8	7
80	Efficient Inorganic Cesium Lead Mixed-Halide Perovskite Solar Cells Prepared by Flash-Evaporation Printing. <i>Energy Technology</i> , 2019, 7, 1800986.	3.8	7
81	Role of TiO_2 Thickness on Depletion Properties of $\text{TiO}_2/\text{CH}_3\text{NH}_3\text{PbI}_3$ Heterojunction. <i>Chemistry Letters</i> , 2018, 47, 1055-1058.	1.3	4
82	All Solution-Processed $\text{Cu}_2\text{ZnSnS}_4$ Solar Cell by Using High-Boiling-Point Solvent Treated Ball-Milling Process with Efficiency Exceeding 6%. <i>ChemistrySelect</i> , 2019, 4, 982-989.	1.5	4
83	Perovskite Solar Cells: All-Carbon-Electrode-Based Endurable Flexible Perovskite Solar Cells (Adv.) <i>Tj ETQq1 1 0,784314 ggBT /Over</i>	14.9	3
84	The effect of dispersion of TiO_2 nanoparticles on preparation of flexible dye-sensitized photoanodes. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 1203-1209.	5.1	2
85	Electrolyte-dependent photovoltaic responses in dye-sensitized solar cells. <i>Frontiers of Optoelectronics in China</i> , 2011, 4, 45-52.	0.2	1
86	All-Layer Sputtering-Free $\text{Cu}_2\text{ZnSnS}_4$ Solar Cell with Efficiency Exceeding 7.5%. <i>ChemistrySelect</i> , 2019, 4, 5979-5983.	1.5	1
87	Improved Moisture Stability of Perovskite Solar Cells Using N719 Dye Molecules. <i>Solar Rrl</i> , 2019, 3, 1970115.	5.8	1
88	Effect of cationic groups in organic sulfide electrolyte on the performance of CdS quantum dot sensitized solar cells. <i>Science Bulletin</i> , 2014, 59, 3209-3215.	1.7	0