

Hong Lin

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109
papers

3,755
citations

33
h-index

59
g-index

114
ext. papers

4,305
ext. citations

7.6
avg, IF

5.54
L-index

#	Paper	IF	Citations
109	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, 1415-20	11.5	606
108	Charge selective contacts, mobile ions and anomalous hysteresis in organic/inorganic perovskite solar cells. <i>Materials Horizons</i> , 2015 , 2, 315-322	14.4	338
107	Aluminum-Doped Zinc Oxide as Highly Stable Electron Collection Layer for Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7826-33	9.5	158
106	High Efficiency Inverted Planar Perovskite Solar Cells with Solution-Processed NiO Hole Contact. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2439-2448	9.5	126
105	Recent advances in alternative cathode materials for iodine-free dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013 , 6, 2003	35.4	124
104	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	13	120
103	Perovskite solar cells: must lead be replaced - and can it be done?. <i>Science and Technology of Advanced Materials</i> , 2018 , 19, 425-442	7.1	99
102	Polyhedral Oligomeric Silsesquioxane Enhances the Brightness of Perovskite Nanocrystal-Based Green Light-Emitting Devices. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4398-4404	6.4	95
101	Organic/Inorganic Perovskite Light-Emitting Electrochemical Cells with a Large Capacitance. <i>Advanced Functional Materials</i> , 2015 , 25, 7226-7232	15.6	77
100	Hybrid PbS Quantum-Dot-in-Perovskite for High-Efficiency Perovskite Solar Cell. <i>Small</i> , 2018 , 14, e1801016	11.6	77
99	High-Quality Cuboid CH ₃ NH ₃ PbI ₃ Single Crystals for High Performance X-Ray and Photon Detectors. <i>Advanced Functional Materials</i> , 2019 , 29, 1806984	15.6	76
98	Recent progress in efficient hybrid lead halide perovskite solar cells. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 036004	7.1	72
97	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	3.8	69
96	Enhancing the Performance of Perovskite Solar Cells by Hybridizing SnS Quantum Dots with CH ₃ NH ₃ PbI ₃ . <i>Small</i> , 2017 , 13, 1700953	11	64
95	All-Perovskite Emission Architecture for White Light-Emitting Diodes. <i>ACS Nano</i> , 2018 , 12, 10486-10492	16.7	61
94	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	9.5	54
93	Formation of Titania Nanoarrays by Hydrothermal Reaction and Their Application in Photovoltaic Cells. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 628-631	3.8	52

92	Working from Both Sides: Composite Metallic Semitransparent Top Electrode for High Performance Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4523-31	9.5	50
91	Hole Transport Bilayer Structure for Quasi-2D Perovskite Based Blue Light-Emitting Diodes with High Brightness and Good Spectral Stability. <i>Advanced Functional Materials</i> , 2019 , 29, 1905339	15.6	50
90	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	13	48
89	To Be Higher and Stronger-Metal Oxide Electron Transport Materials for Perovskite Solar Cells. <i>Small</i> , 2020 , 16, e1902579	11	46
88	Sunlight-like, color-temperature tunable white organic light-emitting diode with high color rendering index for solid-state lighting application. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22097		42
87	Vertically Aligned Carbon Nanotubes/Graphene Hybrid Electrode as a TCO- and Pt-Free Flexible Cathode for Application in Solar Cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20902-20907	13	41
86	Low temperature reduction of free-standing graphene oxide papers with metal iodides for ultrahigh bulk conductivity. <i>Scientific Reports</i> , 2014 , 4, 3965	4.9	39
85	Efficient and Stable Red Perovskite Light-Emitting Diodes with Operational Stability >300 h. <i>Advanced Materials</i> , 2021 , 33, e2008820	24	38
84	In situ formation of a 2D/3D heterostructure for efficient and stable CsPbI ₂ Br solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22675-22682	13	37
83	CH ₃ NH ₃ 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	7.1	36
82	Efficient near-infrared light-emitting diodes based on organometallic halide perovskite-poly(2-ethyl-2-oxazoline) nanocomposite thin films. <i>Nanoscale</i> , 2016 , 8, 19846-19852	7.7	36
81	Energetic alignment in nontoxic SnS quantum dot-sensitized solar cell employing spiro-OMeTAD as the solid-state electrolyte. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 035006	7.1	36
80	Thiazole-Induced Surface Passivation and Recrystallization of CH ₃ NH ₃ PbI ₃ Films for Perovskite Solar Cells with Ultrahigh Fill Factors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42436-42443	9.5	36
79	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	13	35
78	BMP2-encapsulated chitosan coatings on functionalized Ti surfaces and their performance in vitro and in vivo. <i>Materials Science and Engineering C</i> , 2014 , 40, 1-8	8.3	35
77	Crystalline Transition from H ₂ Ti ₃ O ₇ Nanotubes to Anatase Nanocrystallines Under Low-Temperature Hydrothermal Conditions. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3564-3566 ^{3.8}		35
76	Cobalt-based layered double hydroxides as oxygen evolving electrocatalysts in neutral electrolyte. <i>Frontiers of Materials Science</i> , 2012 , 6, 142-148	2.5	33
75	Graphene on Metal Grids as the Transparent Conductive Material for Dye Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25863-25868	3.8	32

74	Improved quasi-solid dye-sensitized solar cells by composite ionic liquid electrolyte including layered Zirconium phosphate. <i>Applied Physics Letters</i> , 2006 , 89, 194104	3.4	31
73	Thermionic Emission-Based Interconnecting Layer Featuring Solvent Resistance for Monolithic Tandem Solar Cells with Solution-Processed Perovskites. <i>Advanced Energy Materials</i> , 2018 , 8, 1801954	21.8	31
72	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	13	29
71	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	15.6	28
70	Highly catalytic cross-stacked superaligned carbon nanotube sheets for iodine-free dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22756		26
69	In situ growth of 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	7.1	25
68	A Switchable Interconnecting Layer for High Performance Tandem Organic Solar Cell. <i>Advanced Energy Materials</i> , 2017 , 7, 1701164	21.8	25
67	Reduction of free-standing graphene oxide papers by a hydrothermal process at the solid/gas interface. <i>RSC Advances</i> , 2013 , 3, 2971	3.7	24
66	Achieving High-Quality Sn-Pb Perovskite Films on Complementary Metal-Oxide-Semiconductor-Compatible Metal/Silicon Substrates for Efficient Imaging Array. <i>ACS Nano</i> , 2019 , 13, 11800-11808	16.7	22
65	A novel preparation method for NiCo ₂ O ₄ electrodes stacked with hexagonal nanosheets for water electrolysis. <i>Journal of Applied Electrochemistry</i> , 2006 , 36, 945-950	2.6	22
64	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	9.5	22
63	Improved Moisture Stability of Perovskite Solar Cells Using N719 Dye Molecules. <i>Solar Rrl</i> , 2019 , 3, 1900345	3.45	21
62	Bifacial Modified Charge Transport Materials for Highly Efficient and Stable Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17861-17870	9.5	21
61	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	9.5	20
60	Improved Physicochemical Properties of Curcumin-Loaded Solid Lipid Nanoparticles Stabilized by Sodium Caseinate-Lactose Maillard Conjugate. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 7072-7081	5.7	19
59	Bending Durable and Recyclable Mesostructured Perovskite Solar Cells Based on Superaligned ZnO Nanorod Electrode. <i>Solar Rrl</i> , 2018 , 2, 1700194	7.1	19
58	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	7.1	19
57	An Excellent Modifier: Carbon Quantum Dots for Highly Efficient Carbon-Electrode-Based Methylammonium Lead Iodide Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1900146	7.1	18

56	Upconversion $32\text{Nb}_2\text{O}_5 \cdot 10\text{La}_2\text{O}_3 \cdot 6\text{ZrO}_2$ glass activated with $\text{Er}^{3+}/\text{Yb}^{3+}$ and dye sensitized solar cell application. <i>Journal of Advanced Ceramics</i> , 2017 , 6, 312-319	10.7	17
55	Strong Orange Luminescence from a Novel Hexagonal ZnO Nanosheet Film Grown on Aluminum Substrate by a Simple Wet-Chemical Approach. <i>Journal of the American Ceramic Society</i> , 2007 , 90, 635-637	3.8	17
54	Highly efficient inverted perovskite solar cells based on self-assembled graphene derivatives. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 20702-20711	13	17
53	Cesium-Containing Perovskite Solar Cell Based on Graphene/TiO ₂ Electron Transport Layer. <i>ChemistrySelect</i> , 2017 , 2, 9433-9437	1.8	16
52	Defect/Interface Recombination Limited Quasi-Fermi Level Splitting and Open-Circuit Voltage in Mono- and Triple-Cation Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37647-37656	9.5	16
51	Improvement of $\text{Cs}(\text{FAPbI}_3)_{0.85}(\text{MAPbBr}_3)_{0.15}$ Quality Via DMSO-Molecule-Control to Increase the Efficiency and Boost the Long-Term Stability of 1 cm ² Sized Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2019 , 3, 1800338	7.1	15
50	Single-phase alkylammonium cesium lead iodide quasi-2D perovskites for color-tunable and spectrum-stable red LEDs. <i>Nanoscale</i> , 2019 , 11, 16907-16918	7.7	14
49	Enhanced Photocatalytic Property of CsPbI_3 Perovskite Nanocrystals with WS ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1219-1229	8.3	14
48	Synthesis, electrochemical, photophysical, and electroluminescent properties of organic dyes containing pyrazolo[3, 4-b]quinoline chromophore. <i>Dyes and Pigments</i> , 2015 , 121, 138-146	4.6	13
47	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	3.7	13
46	Band alignment and charge transfer in CsPbBr_3 -CdSe nanoplatelet hybrids coupled by molecular linkers. <i>Journal of Chemical Physics</i> , 2019 , 151, 174704	3.9	13
45	Flash-evaporation printing methodology for perovskite thin films. <i>NPG Asia Materials</i> , 2017 , 9, e395-e395	5.3	12
44	Inverted Perovskite Solar Cells with Efficient Mixed-Fullerene Derivative Charge Extraction Layers. <i>ChemistrySelect</i> , 2018 , 3, 6802-6809	1.8	12
43	Vertically aligned ZnO/ZnTe core/shell heterostructures on an AZO substrate for improved photovoltaic performance. <i>RSC Advances</i> , 2017 , 7, 14837-14845	3.7	9
42	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	1.7	8
41	Enhanced efficiency and reduced roll-off in white organic light-emitting diodes based on two ultra-thin emitting layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 408-412	1.6	8
40	Facile conversion of silicon nitride nanobelts into sandwich-like nanosaws: towards functional nanostructured materials. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 97, 729-734	2.6	8
39	HIGHLY CATALYTIC ACTIVE NANOSTRUCTURED Pt ELECTRODES FOR DYE-SENSITIZED SOLAR CELLS PREPARED BY LOW TEMPERATURE ELECTRODEPOSITION. <i>Functional Materials Letters</i> , 2011 , 04, 7-11	1.2	8

38	Improved phase stability of ECsPbI_3 perovskite nanocrystals using the interface effect using iodine modified graphene oxide. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2569-2578	7.1	8
37	Reduced Graphene Oxide/CZTS x Se $1-x$ Composites as a Novel Hole-Transport Functional Layer in Perovskite Solar Cells. <i>ChemElectroChem</i> , 2019 , 6, 1500-1507	4.3	8
36	Suppressed phase transition of a Rb/K incorporated inorganic perovskite with a water-repelling surface. <i>Nanoscale</i> , 2020 , 12, 6571-6581	7.7	7
35	Perovskite photodetectors prepared by flash evaporation printing. <i>RSC Advances</i> , 2017 , 7, 34795-34800	3.7	7
34	New trends for solar cell development and recent progress of dye sensitized solar cells. <i>Frontiers of Materials Science in China</i> , 2009 , 3, 345-352		7
33	Mechanical Property and Oxidation Behavior of Self-Reinforced Si_3N_4 Doped with Re_2O_3 (Re=Yb, Lu). <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1730-1732	3.8	7
32	Zein-Polyglycerol Conjugates with Enhanced Water Solubility and Stabilization of High Oil Loading Emulsion. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 11810-11816	5.7	6
31	Recent progress in meniscus coating for large-area perovskite solar cells and solar modules. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 1926-1951	5.8	6
30	Preparation and Enhanced UV-Visible Light Photoelectrocatalytic Activity of $\text{TiO}_2\text{-Fe}_2\text{O}_3/\text{Cu}$ Ternary Nanocomposites. <i>ChemistrySelect</i> , 2019 , 4, 2892-2897	1.8	5
29	Chromatic-stability white organic light emitting diodes based on phosphorescence doped electron transport layer. <i>Solid-State Electronics</i> , 2014 , 94, 6-10	1.7	5
28	Electron transport in dye-sensitized solar cells based on TiO_2 nanowires. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014 , 57, 892-897	3.6	5
27	Advances in Phase Stability of Cesium Lead Halide Perovskites. <i>Solar Rrl</i> , 2020 , 4, 2000495	7.1	5
26	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	3.9	5
25	Comparative analysis of polyester hydrolysis activity among three lipolytic enzymes. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 2522-2528	3.5	4
24	Cobalt Salt as Efficient Dopant for Spiro-MeOTAD in Cesium-Containing Planar Perovskite Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 2898-2902	1.3	4
23	Deep-blue, low-threshold amplified spontaneous emitting and high thermal stability binaphthyl derivatives. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2372-2377	1.6	4
22	Microstructurally Tailored Thin Ag_2Se Films towards Commercial Flexible Thermoelectrics. <i>Advanced Materials</i> , 2021 , e2104786	24	4
21	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	1.8	3

20	Loading Auristatin PE onto boron nitride nanotubes and their effects on the apoptosis of Hep G2 cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 181, 305-314	6	3
19	Facile solvothermal synthesis of single-crystalline anatase nanorods for efficient dye-sensitized solar cells. <i>Pure and Applied Chemistry</i> , 2012 , 85, 417-425	2.1	3
18	Phase Evolution in Heat-Treated Si ₃ N ₄ with Additions of Yb ₂ O ₃ . <i>Journal of the American Ceramic Society</i> , 2008 , 91, 611-614	3.8	3
17	Cell-bound lipases from Burkholderia sp. ZYB002: gene sequence analysis, expression, enzymatic characterization, and 3D structural model. <i>BMC Biotechnology</i> , 2016 , 16, 38	3.5	3
16	Screening of perhydrolases to optimize glucose oxidase-perhydrolase-in situ chemical oxidation cascade reaction system and its application in melanin decolorization. <i>Journal of Biotechnology</i> , 2021 , 328, 106-114	3.7	3
15	Effect of LiF on the optical transmittance of magnesium aluminate spinel. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012 , 27, 526-528	1	2
14	Low-Temperature and Large-Scale Synthesis of Carbon Nanofiber Web via Electrospinning and Their Efficient Removal of Cr(VI) Ions. <i>ChemistrySelect</i> , 2018 , 3, 10543-10548	1.8	2
13	Solar Cells: Thermionic EmissionBased Interconnecting Layer Featuring Solvent Resistance for Monolithic Tandem Solar Cells with Solution-Processed Perovskites (Adv. Energy Mater. 36/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870155	21.8	2
12	Focus issue on organic and hybrid photovoltaics. <i>Science and Technology of Advanced Materials</i> , 2019 , 20, 42-43	7.1	1
11	All-Layer Sputtering-Free Cu ₂ Zn _{1-x} Cd _x SnS ₄ Solar Cell with Efficiency Exceeding 7.5%. <i>ChemistrySelect</i> , 2019 , 4, 5979-5983	1.8	1
10	Generation of Ultrafine Droplets in Femtoliter Scale from a Large Needle with Diameter of 200 Microns. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 4244-4248	1.3	1
9	Ultrasonic Remove of Particle Aggregation in Carbon Based Counter Electrodes for Dye-Sensitized Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 4366-4370	1.3	1
8	Fabrication of flexible MnO ₂ nanowire membranes with superior mechanical strength. <i>Science Bulletin</i> , 2014 , 59, 1454-1458		1
7	Solid Electrolytes: OrganicInorganic Perovskite Light-Emitting Electrochemical Cells with a Large Capacitance (Adv. Funct. Mater. 46/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 7243-7243	15.6	1
6	Doping effect of Ir(ppy) ₃ on white-light electrophosphorescent devices based on platinum(II) [1,3-difluoro-4,6-di(2-pyridinyl)benzene] chloride. <i>Displays</i> , 2014 , 35, 74-78	3.4	1
5	Improved Moisture Stability of Perovskite Solar Cells Using N719 Dye Molecules. <i>Solar Rrl</i> , 2019 , 3, 1970-1975	1.5	1
4	Extremely High Efficiency Orange Phosphorescent Organic Light-Emitting Devices. <i>Advanced Materials Research</i> , 2012 , 490-495, 3221-3225	0.5	
3	Use of Versatile Binaphthalene Derivative in Chromatic-Stability Non-Doped White Organic Light Emitting Diodes. <i>Advanced Materials Research</i> , 2012 , 490-495, 3887-3891	0.5	

- 2 Facile conversion of silicon nitride nanobelts into sandwich-like nanosaws II: growth mechanism and optical properties. *Applied Physics A: Materials Science and Processing*, **2010**, 98, 321-326 2.6
- 1 P-13.3: Efficient Blue and Color Tunable White OLED Based on Platinum Complex. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 637-637 0.5