Dongmei Li

List of Publications by Year
in descending order

84	4,956	40	69
papers	citations	h-index	g-index
		76326	91884

85	85	85	6276
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-efficiency (>20%) planar carbon-based perovskite solar cells through device configuration engineering. Journal of Colloid and Interface Science, 2022, 608, 3151-3158.	9.4	34
2	Ge Incorporation to Stabilize Efficient Inorganic CsPbI₃ Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, .	19.5	55
3	A high-efficiency (12.5%) kesterite solar cell realized by crystallization growth kinetics control over aqueous solution based Cu₂ZnSn(S,Se)₄. Journal of Materials Chemistry A, 2022, 10, 779-788.	10.3	35
4	Temperatureâ€Reliable Lowâ€Dimensional Perovskites Passivated Blackâ€Phase CsPbI₃ toward Stable and Efficient Photovoltaics. Angewandte Chemie, 2022, 134, .	2.0	73
5	Ge Bidirectional Diffusion to Simultaneously Engineer Back Interface and Bulk Defects in the Absorber for Efficient CZTSSe Solar Cells. Advanced Materials, 2022, 34, e2202858.	21.0	60
6	Reconfiguring perovskite interface via R4NBr addition reaction toward efficient and stable FAPbI3-based solar cells. Science China Chemistry, 2022, 65, 1185-1195.	8.2	5
7	Ultra-small interlayer spacing and nano channels in anionic layered perovskite Cs2Pb(SCN)2I2 enable efficient photoelectric conversion. Science China Materials, 2021, 64, 61-72.	6.3	10
8	Eliminating the electric field response in a perovskite heterojunction solar cell to improve operational stability. Science Bulletin, 2021, 66, 536-544.	9.0	10
9	Using hysteresis to predict the charge recombination properties of perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 6382-6392.	10.3	25
10	CdS Induced Passivation toward High Efficiency and Stable Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 9771-9780.	8.0	17
11	Inorganic Ammonium Halide Additive Strategy for Highly Efficient and Stable CsPbI₃ Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2010813.	14.9	90
12	Efficient (>20â€‰%) and Stable Allâ€Inorganic Cesium Lead Triiodide Solar Cell Enabled by Thiocyanate Molten Salts. Angewandte Chemie - International Edition, 2021, 60, 13436-13443.	13.8	166
13	Efficient (>20â€‰%) and Stable Allâ€Inorganic Cesium Lead Triiodide Solar Cell Enabled by Thiocyanate Molten Salts. Angewandte Chemie, 2021, 133, 13548-13555.	2.0	15
14	Efficient and Compositionâ€Tolerant Kesterite Cu₂ZnSn(S, Se)₄ Solar Cells Derived From an In Situ Formed Multifunctional Carbon Framework. Advanced Energy Materials, 2021, 11, 2102298.	19.5	58
15	Two-Step Annealing CZTSSe/CdS Heterojunction to Improve Interface Properties of Kesterite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 55243-55253.	8.0	25
16	Application of a new Ï€-conjugated ladder-like polymer in enhancing the stability and efficiency of perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 1417-1424.	10.3	32
17	Underlying mechanism of the efficiency loss in CZTSSe solar cells: Disorder and deep defects. Science China Materials, 2020, 63, 2371-2396.	6.3	37
18	Diffusion Dynamics of Mobile Ions Hidden in Transient Optoelectronic Measurement in Planar Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 8330-8337.	5.1	1

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19	Exciton Character and Highâ€Performance Stimulated Emission of Hybrid Lead Bromide Perovskite Polycrystalline Film. Advanced Optical Materials, 2020, 8, 1902026.	7.3	22
20	Exploiting Electrical Transients to Quantify Charge Loss in Solar Cells. Joule, 2020, 4, 472-489.	24.0	53
21	Intermolecular Ï€â€“Ï€ Conjugation Selfâ€Assembly to Stabilize Surface Passivation of Highly Efficient Perovskite Solar Cells. Advanced Materials, 2020, 32, e1907396.	21.0	128
22	In-Situ Electropolymerized Polyamines as Dopant-Free Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 5058-5066.	5.1	26
23	Enhanced Perovskite Solar Cell Efficiency Via the Electric-Field-Induced Approach. ACS Applied Materials & Interfaces, 2020, 12, 27258-27267.	8.0	19
24	Quantifying the Interface Defect for the Stability Origin of Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1901352.	19.5	91
25	A Simple Way to Simultaneously Release the Interface Stress and Realize the Inner Encapsulation for Highly Efficient and Stable Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1905336.	14.9	96
26	Piezo-phototronic Effect Enhanced Efficient Flexible Perovskite Solar Cells. ACS Nano, 2019, 13, 4507-4513.	14.6	82
27	Plasma-enhanced atomic-layer-deposited gallium nitride as an electron transport layer for planar perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 25347-25354.	10.3	28
28	Localized Surface Plasmon Resonance Enhanced Photocatalytic Hydrogen Evolution via Pt@Au NRs/C₃N₄ Nanotubes under Visibleâ€Light Irradiation. Advanced Functional Materials, 2019, 29, 1806774.	14.9	129
29	Enhancing back interfacial contact by in-situ prepared MoO3 thin layer for Cu2ZnSnSxSe4-x solar cells. Science China Materials, 2019, 62, 797-802.	6.3	19
30	Application of Cesium on the Restriction of Precursor Crystallization for Highly Reproducible Perovskite Solar Cells Exceeding 20% Efficiency. ACS Applied Materials & Interfaces, 2018, 10, 9503-9513.	8.0	55
31	Fabrication of Cu₂ZnSn(S,Se)₄photovoltaic devices with 10% efficiency by optimizing the annealing temperature of precursor films. RSC Advances, 2018, 8, 4119-4124.	3.6	21
32	Photocharge accumulation and recombination in perovskite solar cells regarding device performance and stability. Applied Physics Letters, 2018, 112, 053904.	3.3	20
33	New hole transporting materials for planar perovskite solar cells. Chemical Communications, 2018, 54, 1651-1654.	4.1	66
34	High Quality Perovskite Crystals for Efficient Film Photodetectors Induced by Hydrolytic Insulating Oxide Substrates. Advanced Functional Materials, 2018, 28, 1705220.	14.9	34
35	Identification of high-temperature exciton states and their phase-dependent trapping behaviour in lead halide perovskites. Energy and Environmental Science, 2018, 11, 1460-1469.	30.8	61
36	Enhanced photocatalytic activity of mesoporous carbon/C3N4 composite photocatalysts. Journal of Colloid and Interface Science, 2018, 512, 474-479.	9.4	22

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37	Inorganicâ€“organic halide perovskites for new photovoltaic technology. National Science Review, 2018, 5, 559-576.	9.5	49
38	Sodium-doped carbon nitride nanotubes for efficient visible light-driven hydrogen production. Nano Research, 2018, 11, 2295-2309.	10.4	94
39	Graphdiyneâ€Based Bulk Heterojunction for Efficient and Moistureâ€Stable Planar Perovskite Solar Cells. Advanced Energy Materials, 2018, 8, 1802012.	19.5	70
40	Solvent-engineering toward CsPb(I_xBr_{1âˆ’x})₃films for high-performance inorganic perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 19810-19816.	10.3	47
41	New two-dimensional porous graphitic carbon nitride nanosheets for highly efficient photocatalytic hydrogen evolution under visible-light irradiation. Catalysis Science and Technology, 2018, 8, 3846-3852.	4.1	32
42	Selfâ€Adhesive Macroporous Carbon Electrodes for Efficient and Stable Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1802985.	14.9	161
43	The Formation of Tiâ€“H Species at Interface Is Lethal to the Efficiency of TiO₂-Based Dye-Sensitized Devices. Journal of the American Chemical Society, 2017, 139, 2083-2089.	13.7	55
44	A perylene diimide based polymer: a dual function interfacial material for efficient perovskite solar cells. Materials Chemistry Frontiers, 2017, 1, 1079-1086.	5.9	51
45	Investigation on the role of Lewis bases in the ripening process of perovskite films for highly efficient perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 20874-20881.	10.3	117
46	DMF as an Additive in a Two-Step Spin-Coating Method for 20% Conversion Efficiency in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 26937-26947.	8.0	75
47	Molecular â€œFlowerâ€•as the High-Mobility Hole-Transport Material for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 43855-43860.	8.0	31
48	Electropolymerization Porous Aromatic Framework Film As a Hole-Transport Layer for Inverted Perovskite Solar Cells with Superior Stability. ACS Applied Materials & Interfaces, 2017, 9, 43688-43695.	8.0	19
49	Methylammonium cation deficient surface for enhanced binding stability at TiO2/CH3NH3PbI3 interface. Nano Research, 2017, 10, 483-490.	10.4	8
50	Opto-electro-modulated transient photovoltage and photocurrent system for investigation of charge transport and recombination in solar cells. Review of Scientific Instruments, 2016, 87, 123107.	1.3	84
51	The Effect of Humidity upon the Crystallization Process of Twoâ€Step Spinâ€Coated Organicâ€“Inorganic Perovskites. ChemPhysChem, 2016, 17, 112-118.	2.1	35
52	Fumed SiO₂ modified electrolytes for quantum dot sensitized solar cells with efficiency exceeding 11% and better stability. Journal of Materials Chemistry A, 2016, 4, 14194-14203.	10.3	68
53	Simple biphenyl or carbazole derivatives with four di(anisyl)amino substituents as efficient hole-transporting materials for perovskite solar cells. RSC Advances, 2016, 6, 92213-92217.	3.6	9
54	Microscopic Charge Transport and Recombination Processes behind the Photoelectric Hysteresis in Perovskite Solar Cells. Small, 2016, 12, 5288-5294.	10.0	29

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55	Mg-doped TiO₂boosts the efficiency of planar perovskite solar cells to exceed 19%. Journal of Materials Chemistry A, 2016, 4, 15383-15389.	10.3	131
56	Intrinsic slow charge response in the perovskite solar cells: Electron and ion transport. Applied Physics Letters, 2015, 107, 163901.	3.3	35
57	Interfaces in Perovskite Solar Cells. Small, 2015, 11, 2472-2486.	10.0	344
58	Perovskite thin-film solar cell: excitation in photovoltaic science. Science China Chemistry, 2015, 58, 221-238.	8.2	63
59	Pressure-assisted CH₃NH₃PbI₃ morphology reconstruction to improve the high performance of perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 5289-5293.	10.3	76
60	The influence of different mask aperture on the open-circuit voltage measurement of perovskite solar cells. Journal of Renewable and Sustainable Energy, 2015, 7, 043104.	2.0	13
61	Highly efficient planar perovskite solar cells with a TiO₂/ZnO electron transport bilayer. Journal of Materials Chemistry A, 2015, 3, 19288-19293.	10.3	145
62	Enhancement of H2 evolution over new ZnIn2S4/RGO/MoS2 photocatalysts under visible light. APL Materials, 2015, 3, 104417.	5.1	16
63	Controlling the conduction band offset for highly efficient ZnO nanorods based perovskite solar cell. Applied Physics Letters, 2015, 107, .	3.3	67
64	Efficient CH3NH3PbI3 perovskite solar cells with 2TPA-n-DP hole-transporting layers. Nano Research, 2015, 8, 1116-1127.	10.4	65
65	Study on negative incident photon-to-electron conversion efficiency of quantum dot-sensitized solar cells. Review of Scientific Instruments, 2014, 85, 023103.	1.3	9
66	An all-carbon counter electrode for highly efficient hole-conductor-free organo-metal perovskite solar cells. RSC Advances, 2014, 4, 52825-52830.	3.6	175
67	A thin pristine non-triarylamine hole-transporting material layer for efficient CH₃NH₃PbI₃perovskite solar cells. RSC Advances, 2014, 4, 32918.	3.6	35
68	Hydrothermal synthesis of zinc indium sulfide microspheres with Ag⁺ doping for enhanced H₂ production by photocatalytic water splitting under visible light. Catalysis Science and Technology, 2014, 4, 1144-1150.	4.1	23
69	CdS/CdSe Co-Sensitized Solar Cells Based on a New SnO₂ Photoanode with a Three-Dimensionally Interconnected Ordered Porous Structure. Journal of Physical Chemistry C, 2014, 118, 4007-4015.	3.1	34
70	The potential of eutectic mixtures as environmentally friendly, solvent-free electrolytes for dye-sensitized solar cells. RSC Advances, 2013, 3, 6922.	3.6	18
71	A rapid and scalable strategy to high quality inverse opal tin dioxide porous films. Journal of Materials Chemistry C, 2013, 1, 5450.	5.5	4
72	Band engineering of Cu2+ doped In2xZn3(1âˆ'x)S3 solid solution with high photocatalytic activity for H2 production under visible light. Catalysis Science and Technology, 2013, 3, 1993.	4.1	25

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73	Dye-sensitized solar cells with NiS counter electrodes electrodeposited by a potential reversal technique. Energy and Environmental Science, 2011, 4, 2630.	30.8	423
74	Quasi-solid-state dye-sensitized solar cell fabricated with poly (Î²-hydroxyethyl methacrylate) based organogel electrolyte. Energy and Environmental Science, 2011, 4, 1298.	30.8	72
75	Aqueous colloidal CuInS2 for quantum dot sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 15903.	6.7	110
76	Enhanced electron injection/transportation by surface states increment in mesoporous TiO2 dye-sensitized solar cells. Frontiers of Optoelectronics in China, 2011, 4, 65-71.	0.2	1
77	Nonâ€Corrosive, Nonâ€Absorbing Organic Redox Couple for Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2010, 20, 3358-3365.	14.9	109
78	Photoacoustic and photoelectrochemical current spectra of combined CdS/CdSe quantum dots adsorbed on nanostructured TiO2 electrodes, together with photovoltaic characteristics. Journal of Applied Physics, 2010, 108, .	2.5	39
79	A new figure of merit for qualifying the fluorine-doped tin oxide glass used in dye-sensitized solar cells. Journal of Renewable and Sustainable Energy, 2009, 1, 063107.	2.0	14
80	An overview on water splitting photocatalysts. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2009, 4, 343-351.	0.4	14
81	Application of a New Cyclic Guanidinium Ionic Liquid on Dye-Sensitized Solar Cells (DSCs). Langmuir, 2009, 25, 4808-4814.	3.5	53
82	Optimization the solid-state electrolytes for dye-sensitized solar cells. Energy and Environmental Science, 2009, 2, 283-291.	30.8	85
83	A new molecular material as a dopant-free hole-transporting layer for stable perovskite solar cells. Materials Chemistry Frontiers, 0, , .	5.9	4
84	Investigation on stability of perovskite solar cells: from Materials to Devices. , 0, , .		0