Hanlin Hu

List of Publications by Year
in descending order

48 papers	2,742 citations	218677 26 h-index	214800 47 g-index
49 all docs	49 docs citations	49 times ranked	4031 citing authors

#	Article	IF	Citations
1	Ionic Liquid Engineering in Perovskite Photovoltaics. Energy and Environmental Materials, 2023, 6, .	12.8	18
2	Conjugated polymers with controllable interfacial order and energetics enable tunable heterojunctions in organic and colloidal quantum dot photovoltaics. Journal of Materials Chemistry A, 2022, 10, 1788-1801.	10.3	6
3	Tuning electrolyte solvation structures to enable stable aqueous Al/MnO2 battery. Energy Storage Materials, 2022, 47, 113-121.	18.0	16
4	Mixed Dimensional Perovskites Heterostructure for Highly Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2022, 6, .	5.8	23
5	Efficient energy transfer in organic light-emitting transistor with tunable wavelength. Nano Research, 2022, 15, 3647-3652.	10.4	5
6	Selective, Stable Production of Ethylene Using a Pulsed Cu-Based Electrode. ACS Applied Materials & Interfaces, 2022, 14, 19388-19396.	8.0	14
7	Recent Progress in Ionic Liquids for Stability Engineering of Perovskite Solar Cells. Small Structures, 2022, 3, .	12.0	30
8	A Novel 4,4â€™-Bipiperidine-Based Organic Salt for Efficient and Stable 2D-3D Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 22324-22331.	8.0	6
9	Advance and prospect of metal-organic frameworks for perovskite photovoltaic devices. Organic Electronics, 2022, 106, 106546.	2.6	24
10	Manipulation of Crystallization Kinetics for Perovskite Photovoltaics Prepared Using Two-Step Method. Crystals, 2022, 12, 815.	2.2	4
11	Challenges and Opportunities for the Blue Perovskite Quantum Dot Light-Emitting Diodes. Crystals, 2022, 12, 929.	2.2	6
12	Low-temperature processed bipolar metal oxide charge transporting layers for highly efficient perovskite solar cells. Solar Energy Materials and Solar Cells, 2021, 221, 110870.	6.2	12
13	Printing Highâ€Efficiency Perovskite Solar Cells in Highâ€Humidity Ambient Environmentâ€”An In Situ Guided Investigation. Advanced Science, 2021, 8, 2003359.	11.2	40
14	Flexible Perovskite Solar Cells: Progress and Prospects. Frontiers in Materials, 2021, 8, .	2.4	10
15	Design of All-Small-Molecule Organic Solar Cells Approaching 14% Efficiency via Isometric Terminal Alkyl Chain Engineering. Energies, 2021, 14, 2505.	3.1	14
16	Advances in Lead-Free Perovskite Single Crystals: Fundamentals and Applications. , 2021, 3, 1025-1080.		70
17	One-Dimensional Organicâ€“Metal Halide with Highly Efficient Warm White-Light Emission and Its Moisture-Induced Structural Transformation. Chemistry of Materials, 2021, 33, 5668-5674.	6.7	30
18	Efficient White Photoluminescence from Self-Trapped Excitons in Sb³⁺/Bi³⁺-Codoped Cs₂NaInCl₆ Double Perovskites with Tunable Dual-Emission. ACS Energy Letters, 2021, 6, 3343-3351.	17.4	126

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19	Perovskite Quantum Wells Formation Mechanism for Stable Efficient Perovskite Photovoltaicsâ€"A Realâ€Time Phaseâ€Transition Study. Advanced Materials, 2021, 33, e2006238.	21.0	30
20	Propylammonium Chloride Additive for Efficient and Stable FAPbI₃ Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2102538.	19.5	84
21	Room-temperature multiple ligands-tailored SnO2 quantum dots endow in situ dual-interface binding for upscaling efficient perovskite photovoltaics with high VOC. Light: Science and Applications, 2021, 10, 239.	16.6	40
22	Nucleation and crystal growth control for scalable solution-processed organicâ€"inorganic hybrid perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 1578-1603.	10.3	112
23	Precise Control of Perovskite Crystallization Kinetics via Sequential Aâ€Site Doping. Advanced Materials, 2020, 32, e2004630.	21.0	122
24	Recent Progress in 2D/3D Multidimensional Metal Halide Perovskites Solar Cells. Frontiers in Materials, 2020, 7, .	2.4	33
25	Recent progress of all-polymer solar cells â€" From chemical structure and device physics to photovoltaic performance. Materials Science and Engineering Reports, 2020, 140, 100542.	31.8	75
26	Recent progress in morphology optimization in perovskite solar cell. Journal of Materials Chemistry A, 2020, 8, 21356-21386.	10.3	159
27	Enhanced Electron Transport and Heat Transfer Boost Light Stability of Ternary Organic Photovoltaic Cells Incorporating Nonâ€Fullerene Small Molecule and Polymer Acceptors. Advanced Electronic Materials, 2019, 5, 1900497.	5.1	37
28	Highly Crystalline Near-Infrared Acceptor Enabling Simultaneous Efficiency and Photostability Boosting in High-Performance Ternary Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 48095-48102.	8.0	30
29	Ag-Doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport. ACS Energy Letters, 2019, 4, 534-541.	17.4	96
30	Charge carrier transport and nanomorphology control for efficient non-fullerene organic solar cells. Materials Today Energy, 2019, 12, 398-407.	4.7	23
31	Roomâ€Temperature Meniscus Coating of >20% Perovskite Solar Cells: A Film Formation Mechanism Investigation. Advanced Functional Materials, 2019, 29, 1900092.	14.9	92
32	Facile synthesis of composite tin oxide nanostructures for high-performance planar perovskite solar cells. Nano Energy, 2019, 60, 275-284.	16.0	57
33	Hybrid Tandem Quantum Dot/Organic Solar Cells with Enhanced Photocurrent and Efficiency via Ink and Interlayer Engineering. ACS Energy Letters, 2018, 3, 1307-1314.	17.4	40
34	Stable Highâ€Performance Perovskite Solar Cells via Grain Boundary Passivation. Advanced Materials, 2018, 30, e1706576.	21.0	665
35	A Cryogenic Process for Antisolventâ€Free Highâ€Performance Perovskite Solar Cells. Advanced Materials, 2018, 30, e1804402.	21.0	47
36	Perovskite Photovoltaics: Hybrid Perovskite Thinâ€Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases (Adv. Mater. 2/2017). Advanced Materials, 2017, 29, .	21.0	3

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37	Hybrid tandem quantum dot/organic photovoltaic cells with complementary near infrared absorption. Applied Physics Letters, 2017, 110, 223903.	3.3	23
38	Facile Doping and Workâ€Function Modification of Fewâ€Layer Graphene Using Molecular Oxidants and Reductants. Advanced Functional Materials, 2017, 27, 1602004.	14.9	25
39	Hybrid Perovskite Thinâ€Film Photovoltaics: In Situ Diagnostics and Importance of the Precursor Solvate Phases. Advanced Materials, 2017, 29, 1604113.	21.0	155
40	Vertical Phase Separation in Small Molecule:Polymer Blend Organic Thin Film Transistors Can Be Dynamically Controlled. Advanced Functional Materials, 2016, 26, 1737-1746.	14.9	98
41	Ultra-low p-doping of poly(3-hexylthiophene) and its impact on polymer aggregation and photovoltaic performance. Organic Photonics and Photovoltaics, 2016, 4, .	1.3	3
42	Solution-processable MoOx nanocrystals enable highly efficient reflective and semitransparent polymer solar cells. Nano Energy, 2016, 28, 277-287.	16.0	27
43	Carrier Transport Enhancement in Conjugated Polymers through Interfacial Self-Assembly of Solution-State Aggregates. ACS Applied Materials & Interfaces, 2016, 8, 19649-19657.	8.0	15
44	Mesostructured Fullerene Electrodes for Highly Efficient nâ€“iâ€“p Perovskite Solar Cells. ACS Energy Letters, 2016, 1, 1049-1056.	17.4	37
45	Highly efficient organic solar cells based on a robust room-temperature solution-processed copper iodide hole transporter. Nano Energy, 2015, 16, 458-469.	16.0	41
46	Entanglements in marginal solutions: a means of tuning pre-aggregation of conjugated polymers with positive implications for charge transport. Journal of Materials Chemistry C, 2015, 3, 7394-7404.	5.5	75
47	Hybrid tandem solar cells with depleted-heterojunction quantum dot and polymer bulk heterojunction subcells. Nano Energy, 2015, 17, 196-205.	16.0	43
48	High Speed Coating Method for Fabricating Organic Solar Cells with PCE>10%. , 0, , .		0