

High Charge Carrier Mobilities and Lifetimes in Organo

Advanced Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
17	band gap of the hybrid organic-inorganic perovskite Effect of spin-orbit interaction, semicore electrons, an. Physical Review B, 2014, 90, .	1.1	126
18	Steric engineering of metal-halide perovskites with tunable optical band gaps. Nature Communications, 2014, 5, 5757.	5.8	787
19	Origin and elimination of photocurrent hysteresis by fullerene passivation in CH ₃ NH ₃ PbI ₃ planar heterojunction solar cells. Nature Communications, 2014, 5, 5784.	5.8	2,531
20	Lasing behaviors upon phase transition in solution-processed perovskite thin films. Applied Physics Letters, 2014, 105, .	1.5	59
21	Efficient methylammonium lead iodide perovskite solar cells with active layers from 300 to 900 nm. APL Materials, 2014, 2, .	2.2	118
22	Hole-transport material variation in fully vacuum deposited perovskite solar cells. APL Materials, 2014, 2, .	2.2	163
23	Perovskite-based low-cost and high-efficiency hybrid halide solar cells. Photonics Research, 2014, 2, 111.	3.4	89
24	Fully crystalline perovskite-perylene hybrid photovoltaic cell capable of 1.2 V output with a minimized voltage loss. APL Materials, 2014, 2, .	2.2	37
25	Chloride in Lead Chloride-Derived Organo-Metal Halides for Perovskite-Absorber Solar Cells. Chemistry of Materials, 2014, 26, 7158-7165.	3.2	256
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33	Recombination Study of Combined Halides (Cl, Br, I) Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2014, 5, 1628-1635.	2.1	384
34	Advancements in perovskite solar cells: photophysics behind the photovoltaics. Energy and Environmental Science, 2014, 7, 2518-2534.	15.6	694

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36	Solution Deposition–Conversion for Planar Heterojunction Mixed Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1400355.	10.2	325
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39	Effect of $\text{CH}_3\text{NH}_3\text{PbI}_3$ thickness on device efficiency in planar heterojunction perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 19873-19881.	5.2	314
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2467	Synchronous Modulation of Defects and Buried Interfaces for Highly Efficient Inverted Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2023, 13, .	10.2	15
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2544	Imidazolium Functionalized Polyelectrolyte Assisted Perovskite Crystallization for Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2023, 6, 10243-10250.	2.5	4
2545	Recent Progress on Synthesis, Intrinsic Properties and Optoelectronic Applications of Perovskite Single Crystals. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	12
2546	Characterization of Large-Energy-Bandgap Methylammonium Lead Tribromide (MAPbBr ₃) Perovskite Solar Cells. <i>Nanomaterials</i> , 2023, 13, 1152.	1.9	2
2547	Stabilization of methylammonium lead iodide via SiO ₂ coating for photodetectors. <i>Journal of Materials Research</i> , 2023, 38, 1941-1951.	1.2	0
2548	Stabilization of Component-Pure FAPbI_3 via Volatile Additives for Stable Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 16818-16827.	4.0	4
2549	Integrated Photo - rechargeable Batteries: Photoactive Nanomaterials and Opportunities. <i>E3S Web of Conferences</i> , 2023, 375, 02010.	0.2	0
2550	Buried interface passivation strategies for high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2023, 11, 8573-8598.	5.2	10
2551	Large-scale, Uniform-patterned CsCu ₂ I ₃ Films for Flexible Solar-blind Photodetectors Array with Ultraweak Light Sensing. <i>Small</i> , 2023, 19, .	5.2	8
2552	Effect of Air Exposure on Electron-Beam-Induced Degradation of Perovskite Films. <i>ACS Nanoscience Au</i> , 2023, 3, 230-240.	2.0	1
2553	Polarizable Anionic Sublattices Can Screen Molecular Dipoles in Noncentrosymmetric Inorganic-Organic Hybrids. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 18006-18011.	4.0	1
2554	Phase Control of Organometal Halide Perovskites for Development of Highly Efficient Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 21974-21981.	4.0	1
2555	Enhanced Performance and Stability of Fully Printed Perovskite Solar Cells and Modules by Ternary Additives under High Humidity. <i>Energy & Fuels</i> , 2023, 37, 6049-6061.	2.5	4
2556	Crystallinity Regulation and Defects Passivation for Efficient and Stable Perovskite Solar Cells Using Fully Conjugated Porous Aromatic Frameworks. <i>Angewandte Chemie</i> , 0, , .	1.6	0
2557	Introduction to advanced electronic materials for clean energy applications. , 2023, , 3-26.		2
2558	Nanostructured Tantalum Nitride for Enhanced Solar Water Splitting. <i>ACS Energy Letters</i> , 2023, 8, 2106-2112.	8.8	12
2559	Improving the Solar Energy Utilization of Perovskite Solar Cells via Synergistic Effects of Alkylamine and Alkyl Acid on Defect Passivation. <i>Solar Rrl</i> , 2023, 7, .	3.1	1
2560	Improved Optical Efficiencies of Perovskite Thin Film Solar Cells by Randomly Distributed Ag Nanoparticles. <i>Plasmonics</i> , 0, , .	1.8	0
2561	Additive Engineering for Mixed Lead-Tin Narrow-Band-Gap Perovskite Solar Cells: Recent Advances and Perspectives. <i>Energy & Fuels</i> , 2023, 37, 6401-6423.	2.5	11

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2562	Ferroelectric order in hybrid organic-inorganic perovskite NH ₄ PbI ₃ with non-polar molecules and small tolerance factor. <i>Npj Computational Materials</i> , 2023, 9, .	3.5	2
2563	Alkali Metal Ion-Mediated Augmented Carrier Extraction in Iodobismuth Ternary Perovskite-Based Photovoltaic Device. <i>ACS Applied Electronic Materials</i> , 2023, 5, 5332-5342.	2.0	5
2564	Defect Origin of the Light-Soaking Effects in Hybrid Perovskite Solar Cells. , 2023, , 239-263.		1
2565	Photophysics of Hybrid and Inorganic Lead Halide Perovskites. , 2023, , 27-51.		0
2579	Toward Nonepitaxial Laser Diodes. <i>Chemical Reviews</i> , 2023, 123, 7548-7584.	23.0	4
2589	Nanosolar cell technologies. , 2023, , 25-41.		1
2601	Perovskite-based solar cells. , 2023, , 265-292.		0
2605	Photovoltaic Performance of FAPbI ₃ Perovskite Is Hampered by Intrinsic Quantum Confinement. <i>ACS Energy Letters</i> , 2023, 8, 2543-2551.	8.8	2
2615	Interfacial Charge Transfer in Atomically Thin 2D Transition-Metal Dichalcogenide Heterostructures. , 2023, 1, 1192-1207.		3
2616	Synergy of 3D and 2D Perovskites for Durable, Efficient Solar Cells and Beyond. <i>Chemical Reviews</i> , 2023, 123, 9565-9652.	23.0	21
2631	Industrial perspectives on the upscaling of perovskite materials for photovoltaic applications and its environmental impacts. , 2023, , 117-142.		0
2633	Metal halide perovskite photodetectors. , 2023, , 75-115.		0
2639	Critical role of 1D materials in realizing efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2023, 11, 18592-18604.	5.2	4
2645	Cross-linking polymerization boosts the performance of perovskite solar cells: from material design to performance regulation. <i>Energy and Environmental Science</i> , 2023, 16, 4251-4279.	15.6	1
2650	The role of organic spacers in 2D/3D hybrid perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2023, 8, 82-103.	3.2	2
2659	Recent advances in synthesis of water-stable metal halide perovskites and photocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2023, 11, 22656-22687.	5.2	4
2686	Methylammonium-free wide-bandgap metal halide perovskites for tandem photovoltaics. <i>Nature Reviews Materials</i> , 2023, 8, 822-838.	23.3	2
2691	Solution fabrication methods and optimization strategies of CsPbBr ₃ perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	0

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2708	Dielectric constants and double-layer formation in a perovskite thin film revealed by electrochemical impedance spectroscopy. <i>MRS Communications</i> , 0, , .	0.8	0
2714	Steric hindrance driven passivating cations for stable perovskite solar cells with an efficiency over 24%. <i>Journal of Materials Chemistry A</i> , 0, , .	5.2	0
2768	Study of the electrical properties of large-scale electroluminescent perovskite panels. <i>AIP Conference Proceedings</i> , 2024, , .	0.3	0
2769	Defect-Influenced Modeling of Photophysics in Lead-Based Hybrid and All-Inorganic Perovskites. , 2024, , 223-238.		0