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Organometal halide perovskites as visible-light sensitizers for photovoltaic cells

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<ul><li>993</li><li>992</li><li>991</li><li>990</li><li>989</li></ul>	Dopant-Free Spiro-Triphenylamine/Fluorene as Hole-Transporting Material for Perovskite Solar Cells with Enhanced Efficiency and Stability. 2016, 26, 1375-1381  Stable OrganicIhorganic Perovskite Solar Cells without Hole-Conductor Layer Achieved via Cell Structure Design and Contact Engineering. 2016, 26, 4866-4873  Improving Performance and Stability of Flexible Planar-Heterojunction Perovskite Solar Cells Using Polymeric Hole-Transport Material. 2016, 26, 4464-4471  Controlled Growth and Reliable Thickness-Dependent Properties of OrganicIhorganic Perovskite Platelet Crystal. 2016, 26, 5263-5270  Precisely Controlled Hydration Water for Performance Improvement of OrganicIhorganic Perovskite Solar Cells. 2016, 26, 5028-5034  Degradation Mechanisms of Solution-Processed Planar Perovskite Solar Cells: Thermally Stimulated	194 70 120 52 59

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7 <del>2</del> 7	Nickel Oxide morphology synthesized with hydrothermal method for inverted perovskite solar cells.	0
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716	Separate observation of surface passivation and linking effects of oleylamine alkylamine ligands on metal-halide perovskite films. <b>2022</b> , 106731	0

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694	Thermally Stable Perovskite Solar Cells by All-Vacuum Deposition.	Ο
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692	Theoretical and Experimental Study of Methyl Ammonium Antimony Iodide-Based Lead-Free Perovskite Solar Cells. <b>2023</b> , 16, 236	O
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671	Hybrid perovskites under pressure: Present and future directions. <b>2022</b> , 132, 220903	Ο
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666	Approximation of doubly curved surfaces by analysis-suitable piecewise surfaces with high developability.	O
665	All-inorganic non-perovskite copper halides for light emission. <b>2022</b> , 3, 101171	1
664	Situation and Perspectives on Tin-Based Perovskite Solar Cells. <b>2022</b> , 14, 16603	O
663	Orbital Mixing between Colloidal Quantum Dots and Surface-Bound Molecules. 11892-11898	0
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660	Insight into the Structural, Mechanical and Optoelectronic Properties of Ternary Cubic Barium-Based BaMCl3 (M = Ag, Cu) Chloroperovskites Compounds. <b>2023</b> , 13, 140	1
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657	Stabilizing CsPbI3 perovskite for photovoltaic applications. <b>2023</b> ,	О
656	In situ crystal reconstruction strategy based highly efficient air-processed inorganic CsPbI2Br perovskite photovoltaics for indoor, outdoor, and switching applications.	O
655	Performance of trans perovskite solar cells improved by finely adjusting the particle size of nickel oxide nanoparticles through pH value. <b>2022</b> , 72, 018101	О
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649	Effect of Humidity on Crystal Growth of CuSCN for Perovskite Solar Cell Applications.	О
648	Diffuse Reflectance Spectroscopy with Dilution: A Powerful Method for Halide Perovskites Study. <b>2023</b> , 28, 350	O
647	Strain-induced tunable optoelectronic properties of inorganic halide perovskites APbCl3 (A= K, Rb, and Cs).	4
646	Correlation between hysteresis dynamics and inductance in hybrid perovskite solar cells: studying the dependency on ETL/perovskite interfaces.	O
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643	Two Metal-Free Perovskite Molecules with Different 3D Frameworks Show Switchable Phase Transition, Dielectric Anomaly and SHG Effect.	О
642	Light-Induced Phase Segregation Evolution of All-Inorganic Mixed Halide Perovskites. <b>2023</b> , 14, 267-272	O
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636	Vapor Phase Infiltration Improves Thermal Stability of Organic Layers in Perovskite Solar Cells. <b>2023</b> , 8, 844-852	1
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633	Optimization of tin-based inverted perovskite solar cell with MoS2 interlayer by one-dimensional simulation.	0
632	Open-circuit Voltage Loss in Perovskite Quantum Dot Solar Cells.	O
631	Performance Enhancement in MA0.7FA0.3PbI3 based Perovskite Solar Cell by Gradient Doping. <b>2023</b> , 170558	O
630	High-Efficiency Carbon-based CsPbI2Br Perovskite Solar Cells from Dual Direction Thermal Diffusion Treatment with Cadmium Halides. 2206245	O
629	Organic Solar Cells: Physical Principle and Recent Advances.	O
628	Synthesis, optoelectronic properties, and charge carrier dynamics of colloidal quasi-two-dimensional Cs3Bi2I9 perovskite nanosheets.	1
627	26.48% efficient and stable FAPbI3 perovskite solar cells employing SrCu2O2 as hole transport layer. <b>2023</b> , 13, 1892-1905	О
626	Perovskite Solar Cells: Li-TFSI and t-BP based Chemical Dopant Engineering in Spiro-OMeTAD.	O

625	Upscaling of Carbon-Based Perovskite Solar Module. <b>2023</b> , 13, 313	O
624	Cooperative passivation of perovskite solar cells by alkyldimethylammonium halide amphiphiles. <b>2023</b> , 7, 183-200	Ο
623	Novel Two-Dimensional Graphdiyne-Derived Additive for Stable Inverted Perovskite Solar Cells.	O
622	A Facile Approach for the Encapsulation of Perovskite Solar Cells. <b>2023</b> , 16, 598	O
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620	Improved Defect Tolerance and Charge Carrier Lifetime in Tinlead Mixed Perovskites: Ab Initio Quantum Dynamics. 499-507	2
619	Simultaneous passivation on both A and X sites of halogen perovskite with magnesium benzoate. <b>2023</b> , 13, 2411-2417	O
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606	Metal Halide Perovskite for next-generation optoelectronics: progresses and prospects. 2023, 3,	O
605	Non-toxic Solvent Processed Tin-Halide Perovskite Solar Cells via Weak Coordination.	О
604	Toward commercialization with lightweight, flexible perovskite solar cells for residential photovoltaics. <b>2023</b> ,	1
603	FA cation replenishment-Induced second growth of printed MA-free perovskites for efficient solar cells and modules.	О
602	Recent Progress of Helicene Type Hole-Transporting Materials for Perovskite Solar Cells. <b>2023</b> , 28, 510	О
601	Interfacial engineering between SnO2/MAPbI3 by maleate pheniramine halides toward carbon counter electrode-based perovskite solar cell with 16.21% efficiency.	0
600	Insoluble Organics as Electron-Transporting Materials Enabled by Solvothermal Technology for Solution-Processable Perovskite Solar Cells.	O
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598	Synthesis and Applications of Halide Perovskite Nanocrystals in Optoelectronics. <b>2023</b> , 11, 39	O
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584	Phase-Locking of Random Lasers by Cascaded Ultrafast Molecular Excitation Dynamics. 2200333	1
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576	Two-terminal self-rectifying optoelectronic synaptic devices with largest-dynamic-range updates. <b>2023</b> , 30, 101728	O
575	High-efficiency ⊞APbI3 perovskite solar cells based on one-dimensional TiO2 nanorod array scaffolds. <b>2023</b> , 114, 106750	0
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568	Organic fluorine-based trifluoroethyl methacrylate as effective defect passivators enabling high-efficiency and stable perovskite solar cells. <b>2023</b> , 28, 101362	Ο
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566	Localization control of 2D/3D perovskite heterostructures at grain boundaries by amine-vapor-induced dimensionality reduction. <b>2023</b> , 939, 168680	O
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564	Novel Bi La1-Mn Co1-O3 nanocrystalline perovskite based MIS Schottky UV photodetector device. <b>2023</b> , 161, 112154	Ο
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548	Recent Advances and Challenges toward Efficient Perovskite/Organic Integrated Solar Cells. <b>2023</b> , 16, 266	1
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541	Effects of the Addition of Copper Chloride and Potassium Iodide to Methylammonium-Based Perovskite Solar Cells.	O
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539	Intrinsic Defects at Interface of FAPbI3/MAPbI3 Superlattice: Insight from First-Principles Calculation.	O
538	Regulating Radial Morphology in Hot-Casting Two-Dimensional Ruddlesden Popper Perovskite Film Growth for High-Efficient Photovoltaics.	O
537	Interfacial electronic and vacancy defect engineering coupling of Z-scheme CsSnBr3/SnS2 heterostructure for photovoltaic performance: a hybrid DFT study.	O
536	Self-assembled molecules as selective contacts in CsPbBr3 nanocrystal light emitting diodes.	O

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529	Recycling of halide perovskites. <b>2023</b> , 385-446	0
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525	Halide perovskite photoelectric artificial synapses: materials, devices, and applications.	0
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520	Energy level matched by an external electric field in nontoxic halide perovskite CH3NH3SnI3.	Ο
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518	Challenges and Progress in Lead-Free Halide Double Perovskite Solar Cells. 2201112	Ο

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516	A novel parameter identification strategy based on COOT optimizer applied to a three-diode model of triple cation perovskite solar cells.	О
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507	Phase Transformation of Colloidal Cs3Cu2Cl5 Nanocrystals to CsMCl (M = Zn, Bi, Cd) by Cation Exchange and Their Thermodynamic Study by Density Functional Theory Calculations.	O
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461	Additive engineering with sodium azide material for efficient carbon-based perovskite solar cells.	О
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442	A New Descriptor for Complicated Effects of Electronic Density of States on Ion Migration.	Ο
441	Optical Properties and Metal-Dependent Charge Transfer in Iodido Pentelates.	О
440	Device Structures of Perovskite Solar Cells: A Critical Review.	O
439	Investigating spatial macroscopic metastability of perovskite solar cells with voltage dependent photoluminescence imaging. <b>2023</b> , 5, 025008	О
438	Simple approach for crystallizing growth of MAPbI3 perovskite nanorod without thermal annealing for Next-Generation optoelectronic applications. <b>2023</b> , 298, 127423	1
437	Ultra-thin thermally grown silicon dioxide nanomembrane for waterproof perovskite solar cells. <b>2023</b> , 563, 232810	0
436	Fabrication and characterization of TiO2: ZnO thin films as electron transport material in perovskite solar cell (PSC). <b>2023</b> , 654, 414690	O
435	Mxene regulates the stress of perovskite and improves interface contact for high-efficiency carbon-based all-inorganic solar cells. <b>2023</b> , 461, 141895	1
434	Interface Regulation for Efficient and Stable Perovskite Solar Cells through Potassium Citrate Molecules.	Ο
433	Design Principle of a Water-Dispersed Photocatalytic Perovskite through Ligand Deconstruction. 2159-2168	0
432	Open-circuit-voltage improvement mechanisms in inverted perovskite solar cells during operation revealed by electron-spin observation.	O
431	Highly Stable and Enhanced Performance of plb Perovskite Solar Cells via Cuprous Oxide Hole-Transport Layers. <b>2023</b> , 13, 1363	0
430	Brief Outlook on Top Cell Absorber of Silicon-based Tandem Solar Cell.	O
429	Transition metal dichalcogenides solar cells and integration with perovskites. 2023, 108, 108249	0
428	Symmetric acridine bridging hole transport material for perovskite solar cell. <b>2023</b> , 213, 111158	О

427	Cl-terminated Ti3C2 MXene-modulated carbon/CsPbIBr2 interface boosting efficiency and stability of all-inorganic perovskite solar cells. <b>2023</b> , 619, 156674	0
426	Polarization dependent light-induced phase segregation in inorganic CsPb(BrxI1🛭)3 perovskite microcrystals. <b>2023</b> , 944, 169257	O
425	Revealing buried heterointerface energetics towards highly efficient perovskite solar cells. <b>2023</b> , 109, 108281	0
424	Unlocking the potential of MgF2 textured surface in enhancing the efficiency of perovskite solar cells. <b>2023</b> , 339, 134096	1
423	Effect of molecular configuration of additives on perovskite crystallization and hot carriers behavior in perovskite solar cells. <b>2023</b> , 463, 142449	0
422	Origin of photoluminescence and experimental determination of exciton binding energy, exciton-phonon interaction, and urbach energy in EcsPbI3 nanoparticles. <b>2023</b> , 257, 119765	O
421	Removing residual PbI2 on the perovskite surface for efficient solar cells. 2023, 464, 142720	О
420	Simultaneous bottom-up double-layer synergistic engineering by multifunctional natural molecules for efficient and stable SnO2-based planar perovskite solar cells. <b>2023</b> , 80, 40-47	O
419	Unraveling abnormal buried interface anion defect passivation mechanisms depending on cation-induced steric hindrance for efficient and stable perovskite solar cells. <b>2023</b> , 80, 1-9	О
418	Multilayer conformal structural perovskite solar cells design for light trapping enhancement. <b>2023</b> , 279, 170783	O
417	A DFT study of structural, electronic, optical, mechanical, thermoelectric, and magnetic properties of Pb-halide perovskites LiPbX3 ( $X'=Cl$ , Br, and I) for photovoltaic applications. <b>2023</b> , 1223, 114085	О
416	Improving the stability and performance of hybrid perovskite solar cells based on 1D/3D mixed-dimensional structure by multiple cation doping. <b>2023</b> , 139, 113781	O
415	Two-dimensional materials for boosting the performance of perovskite solar cells: Fundamentals, materials and devices. <b>2023</b> , 153, 100727	О
414	Enhanced efficiency and stability of perovskite solar cells achieved by incorporating potassium cation-18-crown ether-6 complexes. <b>2023</b> , 116, 106766	O
413	Degradation Behavior of Methylammonium Lead Iodide (CH3NH3PbI3) Perovskite Film in Ambient Atmosphere and Device. <b>2023</b> , 255, 89-98	О
412	A comprehensive simulation study of methylammonium-free perovskite solar cells. <b>2023</b> , 11, 100390	O
411	Controllable conduction band-edge reconfiguration in quasi-2D perovskites enabled by dimensional engineering for encouraging electron-hole separation. <b>2023</b> , 465, 142866	Ο
410	Effect of Cu doping on structural, electronic and thermoelectric properties of double perovskite Cs2NaVCl6. <b>2023</b> , 35, e00803	O

409	Numerical investigation of toxic free perovskite solar cells for achieving high efficiency. <b>2023</b> , 35, 105893	О
408	MXenes for perovskite solar cells: Progress and prospects. <b>2023</b> , 81, 443-461	O
407	Optimization and detail analysis of novel structure Pb-free CsGeI3-based all-inorganic perovskite solar cells by SCAPS-1D. <b>2023</b> , 281, 170819	О
406	Boosting efficiency and stability with KBr interface modification for NiOx-based inverted perovskite solar cells. <b>2023</b> , 160, 107454	О
405	A comparative study of cubic methylammonium lead iodide (CH3NH3PbI3) perovskite by using density functional theory. <b>2023</b> , 35, 105814	0
404	Soil adsorption and transport of lead in the presence of perovskite solar cell-derived organic cations. <b>2023</b> , 451, 131147	О
403	Discerning the crystal structure and engineering the optoelectronic properties through substitution of divalent cations ( $M=Zn$ , $N=Ge$ ) in C3H3MNI3 for solar cell applications. <b>2023</b> , 160, 107449	О
402	Synthesis, structure and optical properties of (H2DMAPA)BiBr5, (H2DMAPA)BiBr2l3, (H2DMAPA)2AgBiBr8 and (H2EP)2AgBiBr8 lead-free perovskites. <b>2023</b> , 322, 123938	O
401	Sb-doped I-SrZrS3 as a low-toxic and low-priced absorber for intermediate band solar cells: A first-principles investigation. <b>2023</b> , 658, 414839	О
400	High-throughput calculation and machine learning of two-dimensional halide perovskite materials: Formation energy and band gap. <b>2023</b> , 35, 105841	O
399	Development of environmental friendly high performance Cs2TiBr6 based perovskite solar cell using numerical simulation. <b>2023</b> , 15, 100394	О
398	Reviewing perovskite oxide sites influence on electrocatalytic reactions for high energy density devices. <b>2023</b> , 81, 1-19	О
397	SnO2 electron transport layer modified by F/N-doped graphdiyne and in situ XRD and in situ XAFS exploration on its effect on perovskite active layer. <b>2023</b> , 50, 101852	О
396	Enhanced performance of inverted hybrid perovskite solar cells with interfacial passivation filler. <b>2023</b> , 22, 100381	O
395	Tungsten doped indium oxide (IWO) transparent electrode used in air-annealed perovskite solar cells. <b>2023</b> , 946, 169394	О
394	Modular wearable optoelectronic system using photoactive nanomembranes. <b>2023</b> , 111, 108446	О
393	Defect tolerant Cs2SnI6 double perovskite thin films with ultrahigh carrier lifetime for high efficiency solar cells. <b>2023</b> , 301, 127632	0
392	Structure stabilized with robust molecular cation N(CH3)4+ in high efficiency perovskite solar cells. <b>2023</b> , 30, 101511	O

391	Optimizing inorganic double halide (Cs2TiI6) perovskite solar cell for different hole transport layers using solar cell capacitance software (SCAPS-ID). <b>2023</b> , 35, 105860	0
390	Efficient planar mixed-cation perovskite photovoltaics with low-temperature-processed indium sulfide as electron transport material. <b>2023</b> , 204, 108640	Ο
389	Photoactive materials and devices for energy-efficient soft wearable optoelectronic systems. <b>2023</b> , 110, 108379	Ο
388	Study of mechanical, optical and transport aspirants of double perovskites Cs2XInI6 ( $X = Li$ , Na) for solar cells and clean energy applications. <b>2023</b> , 322, 124003	Ο
387	Understanding the electronic, structural, optical, photovoltaic and thermoelectric properties of Cs2GeSnBr6 by first-principles and SCAPS-1D simulation. <b>2023</b> , 282, 170822	Ο
386	Machine learning assisted classification of post-treatment amines for increasing the stability of organic-inorganic hybrid perovskites. <b>2023</b> , 35, 105902	Ο
385	Photoelectrochemical and first-principles investigation on interactions between zinc ion and halide perovskite surface in the aqueous solution. <b>2023</b> , 1285, 135512	О
384	Band gap tailoring with octahedral distortion and bader charge analysis for 2D-Ruddlesden <b>B</b> opper monolayer tin halide perovskites. <b>2023</b> , 162, 107490	O
383	Optimization of Sn-based perovskite solar cells with the antisolvent doped by acetaldoxime. <b>2023</b> , 119, 106809	О
382	A new D-A-D type benzodithiazole-based hole transport material for Sn-Pb perovskite solar cells with high efficiency and stability. <b>2023</b> , 948, 169801	O
381	Exploration of new chiral hybrid semiconducting palladium halide complexes: [(R)/(S)-2-Methylpiperazinediium]PdCl4. <b>2023</b> , 164, 112251	0
380	Unveiling the effect of carbon dots on the TiO2-involved electron transport in perovskite solar cells. <b>2023</b> , 951, 169958	O
379	Observing strongly confined multiexcitons in bulk-like CsPbBr3 nanocrystals. 2023, 158, 154702	0
378	Surface Passivation of Organic-Inorganic Hybrid Perovskites with Methylhydrazine Iodide for Enhanced Photovoltaic Device Performance. <b>2023</b> , 11, 168	O
377	Solvent engineering towards scalable fabrication of high-quality perovskite films for efficient solar modules. <b>2023</b> , 80, 689-710	О
376	Fine tuning the optoelectronic properties of Dibenzo[b,d]Furan-Centered linear hole transporting materials for perovskite solar cells. <b>2023</b> , 178, 111337	Ο
375	First-principles calculations to investigate structural, electronic and optical properties of ternary copper halides AlCumXn (A'='K, Rb, Cs; X'='Cl, Br, I). <b>2023</b> , 571, 111915	Ο
374	Insights into structural, elastic, mechanical, opto-electronic, and thermoelectric properties of rubidium-based fluoroperovskites RbXF3 ( $X = Zn$ , Cd, Hg). <b>2023</b> , 178, 111357	Ο

373	Pressure-induced tuning of structure and electronic properties in lead-free hybrid halide perovskite HC(NH2)2SnI3 for photovoltaic solar cells. <b>2023</b> , 293, 116468	0
372	Three- and two-dimensional mixed metal halide perovskites for high-performance photovoltaics. <b>2023</b> , 118, 106796	O
371	Efficiency Approaching 26% in Triple Cation Mixed Halide Perovskite Solar Cells by Numerical Simulation. <b>2023</b> , 13, 242-249	0
370	Zn-Porphyrin Blended Anti-Solvent Treatment for Grain Boundary Passivation of Perovskite Solar Cells. <b>2022</b> ,	O
369	Recent advances of two-dimensional material additives in hybrid perovskite solar cells. 2023, 34, 172001	0
368	Passivation effect of theophylline on the surface defects of MAPbI3 perovskite. <b>2023</b> , 219, 112028	O
367	A nickel(ii)-based one-dimensional organicIhorganic halide perovskite ferroelectric with the highest Curie temperature. <b>2023</b> , 14, 1781-1786	0
366	Cs 1Ik DMA x PbI 3 versus CsPbI 3 for Perovskite Solar Cells. <b>2023,</b> 7,	0
365	Critical assessment of carbon pastes for carbon electrode-based perovskite solar cells. <b>2023</b> , 205, 270-293	0
364	Perylene Monoimide Phosphorus Salt Interfacial Modified Crystallization for Highly Efficient and Stable Perovskite Solar Cells. <b>2023</b> , 15, 5556-5565	O
363	Reduced hysteresis and enhanced air stability of low-temperature processed carbon-based perovskite solar cells by surface modification. <b>2023</b> , 443, 141935	0
362	Advances in Encapsulations for Perovskite Solar Cells: From Materials to Applications. 2023, 7,	O
361	Enhanced stability of carbon-based perovskite solar cells by using n-butylamine to assemble 2D capping layer. <b>2023</b> , 115, 106757	0
<b>3</b> 60	Access and Capture of Layered Double Perovskite Polytypic Phase through High-Pressure Engineering. <b>2023</b> , 127, 2407-2415	O
359	Ultrathin SnO2 electron transport layers for perovskite solar cells by combustion method at low temperature. <b>2023</b> , 137, 113518	O
358	Dual-functional electrostatic self-assembly nanoparticles enable suppressed defects and improved charge transport in perovskite optoelectronic devices. <b>2023</b> , 459, 141559	O
357	Non-leaded, KSnI3 based perovskite solar cell: A DFT study along with SCAPS simulation. <b>2023</b> , 297, 127426	0
356	Spring-Like Ammonium Salt Assisting Stress Release for Low-Temperature Deposited FAPbI 3 Films Toward Flexible Photovoltaic Application. <b>2023</b> , 33,	1

355	Probing the Genuine Carrier Dynamics of Semiconducting Perovskites under Sunlight. <b>2023</b> , 3, 441-448	О
354	Can Alternative Module Design Help to Overcome Stability Problems of Perovskite Photovoltaics?. <b>2023</b> , 8, 1147-1151	O
353	Study of the photovoltaic properties of Cs and Cl co-doped FAPbI3 based on first principles. <b>2023</b> , 10, 026201	0
352	Electronic, optical and thermoelectric properties of halide double perovskites Rb2AgInX6 ( $X = Cl$ , Br, I). <b>2023</b> , 98, 035814	O
351	Simultaneous defect passivation and energy level modulation by multifunctional phthalocyanine for efficient and stable perovskite solar cells. <b>2023</b> , 459, 141573	0
350	Constructing a Surface Multi-cationic Heterojunction for CsPbI1.5Br1.5 Perovskite Solar Cells with Efficiency beyond 14%. <b>2023</b> , 14, 1140-1147	Ο
349	Noise Spectroscopy: A Tool to Understand the Physics of Solar Cells. <b>2023</b> , 16, 1296	1
348	Perovskite solar cells: Recent development and perspectives. <b>2022</b> , 77, 667-679	О
347	Dual-interface modification strategy via tautomeric UV absorber for efficient and UV stable planar perovskite solar cells. <b>2023</b> , 115, 106762	О
346	Quantifying electrochemical losses in perovskite solar cells. <b>2023</b> , 11, 2911-2920	0
345	Novel polymer electrolyte based polyurethane acrylate for low-cost perovskite solar cells applications. 1-15	О
344	Navigating the Site-Distinct Energy Conversion Properties of Perovskite Quantum Wells. <b>2023</b> , 8, 1236-1265	Ο
343	Machine Vision for Interpreting Perovskite Grain Characteristics. <b>2023</b> , 4, 209-211	Ο
342	Instability of solution-processed perovskite films: origin and mitigation strategies. <b>2023</b> , 2, 012102	Ο
341	Recent Development of Halide Perovskite Materials and Devices for Ionizing Radiation Detection. <b>2023</b> , 123, 1207-1261	О
340	Transient Energy-Resolved Photoluminescence Study of Excitons and Free Carriers on FAPbBr3 and FAPbBr3/SnO2 Interfaces. <b>2023</b> , 127, 3085-3092	Ο
339	Enhanced Luminescent Performance via Passivation of Surface Undercoordinated Pb Atoms in a CsPbBr 3 Microplate. <b>2023</b> , 11,	0
338	Size-matched dicarboxylic acid for buried interfacial engineering in high-performance perovskite solar cells. <b>2023</b> , 460, 141705	O

337	Highly Efficient and Stable Self-Powered Perovskite Photodiode by Cathode-Side Interfacial Passivation with Poly(Methyl Methacrylate). <b>2023</b> , 13, 619	0
336	Elucidating Structure <b>P</b> roperty Correlation in Perovskitoid and Antiperovskite Piperidinium Manganese Chloride. <b>2023</b> , 62, 3202-3211	1
335	Overview on Different Types of Solar Cells: An Update. <b>2023</b> , 13, 2051	0
334	Study of Optoelectronic Features in Polar and Nonpolar Polymorphs of the Oxynitride Tin-Based Semiconductor InSnO2N. <b>2023</b> , 14, 1548-1555	1
333	Bifunctional Cellulose Interlayer Enabled Efficient Perovskite Solar Cells with Simultaneously Enhanced Efficiency and Stability. <b>2023</b> , 10,	0
332	Facile and Effective Band Gap Engineering of 2D Ruddlesden <b>B</b> opper Perovskites with Improved Structural and Optoelectronic Properties. <b>2023</b> , 5, 1024-1034	1
331	High-Performance Photodetector and Angular-Dependent Random Lasing from Long-Chain Organic Diammonium Sandwiched 2D Hybrid Perovskite Non-Linear Optical Single Crystal. 2214078	0
330	Current Understanding of Band-Edge Properties of Halide Perovskites: Urbach Tail, Rashba Splitting, and Exciton Binding Energy. <b>2023</b> , 14, 1592-1603	1
329	The Effects of Mono- and Bivalent Linear Alkyl Interlayer Spacers on the Photobehavior of Mn(II)-Based Perovskites. <b>2023</b> , 24, 3280	О
328	2D/3D Perovskite: A Step toward Commercialization of Perovskite Solar Cells. <b>2023</b> , 7,	o
327	Finite-temperature properties of CsPbI3 thin films. <b>2023</b> , 7,	О
326	Functional Layers of Inverted Flexible Perovskite Solar Cells and Effective Technologies for Device Commercialization. 2200338	1
325	Graded 2D/3D Perovskite Hetero-Structured Films with Suppressed Interfacial Recombination for Efficient and Stable Solar Cells via DABr Treatment. <b>2023</b> , 28, 1592	О
324	Investigation of High-Efficiency and Stable Carbon-Perovskite/Silicon and Carbon-Perovskite/CIGS-GeTe Tandem Solar Cells. <b>2023</b> , 16, 1676	1
323	Shedding light on electronically doped perovskites. <b>2023</b> , 29, 101380	O
322	Recent Development of Solar Cells and Photovoltaic System. <b>2023</b> , 66, 78-85	0
321	Manipulation of Shallow-Trap States in Halide Double Perovskite Enables Real-time Radiation Dosimetry.	0
320	Importance of the Buffer Layer Properties for the Performance of Perovskite/Silicon Tandem Solar Cells. <b>2023</b> , 6, 2199-2206	О

319	Perovskite-loaded plasmonic gold nanorod composites enhanced solar cell performance. 2023, 6,	О
318	Manipulating Crystallographic Orientation via Cross-Linkable Ligand for Efficient and Stable Perovskite Solar Cells. 2207189	O
317	Preparation of High-Efficiency (>14%) HTL-Free Carbon-Based All-Inorganic Perovskite Solar Cells by Passivation with PABr Derivatives.	0
316	Structural Symmetry Impressing Carrier Dynamics of Halide Perovskite. 2214180	0
315	Treasure trove for efficient hydrogen evolution through water splitting using diverse perovskite photocatalysts. <b>2023</b> , 29, 101387	0
314	An investigation of liquid-junction perovskite solar energy storage cell.	O
313	Low-Temperature Processing Methods for Tin Oxide as Electron Transporting Layer in Scalable Perovskite Solar Cells. 2201080	O
312	Preserving Bond Ionicity under Illumination to Achieve Photostable Halide Perovskites. <b>2023</b> , 127, 3750-3759	O
311	Dual Optimization of Bulk and Interface via the Synergistic Effect of Ligand Anchoring and Hole Transport Dopant Enables 23.28% Efficiency Inverted Perovskite Solar Cells. <b>2023</b> , 17, 3776-3785	0
310	Slow Spontaneous Efficiency Enhancement of Single-Crystal Perovskite Solar Cells Due to Trapped Solvent. <b>2023</b> , 6, 2257-2264	O
309	Investigation and Improved Performance of \$\${mathrm{MASnI}}_{3} {rm and } {mathrm{MASnBr}}_{3}\$\$ Perovskites Solar Cells with Porous Silicon Layer. <b>2023</b> , 826-832	0
308	Interfacial passivation of CsPbI3 quantum dots improves the performance of hole-transport-layer-free perovskite photodetectors. <b>2023</b> , 18,	O
307	Graphene-Like Monoelemental 2D Materials for Perovskite Solar Cells. <b>2023</b> , 13, 2204074	0
306	The effects of cation and halide anion on the stability, electronic and optical properties of double perovskite Cs2NaMX6 (M´=1n, Tl, Sb, bi; X´=´Cl, Br, I). <b>2023</b> , 220, 112058	0
305	Efficient and Lead-Free Perovskite Solar Cells Based on Defect-Ordered Methyl Ammonium Antimony Iodide. <b>2023</b> , 70, 1095-1101	О
304	Triangulating Dopant-Level Mn(II) Insertion in a Cs2NaBiCl6 Double Perovskite Using Magnetic Resonance Spectroscopy. <b>2023</b> , 145, 4485-4499	1
303	Enhanced stability of two-dimensional halide perovskites under an electric field for photocatalytic HI splitting. <b>2023</b> , 11, 6311-6320	0
302	Review of Defect Passivation for NiOx-Based Inverted Perovskite Solar Cells. <b>2023</b> , 6, 2098-2121	O

301	Regulating the Interplay at the Buried Interface for Efficient and Stable Carbon-Based CsPbI2Br Perovskite Solar Cells. <b>2023</b> , 15, 10897-10906	О
<b>3</b> 00	Additive engineering for highly efficient and stable perovskite solar cells. 2023, 10, 011308	1
299	Directional Transformation of Heterometallic Oxo Clusters: A New Approach to Prepare Wide-Bandgap Cathode Interlayers for Perovskite Solar Cells. <b>2023</b> , 62,	О
298	Observation of electronic spectra modulation in a CH3NH3PbBr3 crystal by utilizing transient absorption microscopy. <b>2023</b> , 62, SG1030	O
297	All-Printed Roll-to-Roll Perovskite Photovoltaics Enabled by Solution-Processed Carbon Electrode. <b>2023</b> , 35,	0
296	Crossover from strong to weak exciton confinement in thickness-controlled epitaxial PbI2 thin films. <b>2023</b> , 122, 073101	O
295	Systematic investigation of metal dopants and mechanism for the SnO2 electron transport layer in perovskite solar cells. <b>2023</b> , 25, 7229-7238	0
294	Studies of Performance of Cs2TiI6 $X$ BrX (Where x = 0 to 6)-Based Mixed Halide Perovskite Solar Cell with CdS Electron Transport Layer. <b>2023</b> , 14, 447	O
293	Manipulation of the Buried Interface for Robust Formamidinium-based Sn <b>P</b> b Perovskite Solar Cells with NiO x Hole-Transport Layers. <b>2023</b> , 135,	О
292	Manipulation of the Buried Interface for Robust Formamidinium-based Sn <b>P</b> b Perovskite Solar Cells with NiO x Hole-Transport Layers. <b>2023</b> , 62,	O
291	In situ surface regulation of 3D perovskite using diethylammonium iodide for highly efficient perovskite solar cells. <b>2023</b> , 25, 9349-9356	О
<b>2</b> 90	A Study of High-Sensitivity Electro-Resistance Type Pre-Annealing ZnO-Doped CsPbBr3 Perovskite Acetone Sensors. <b>2023</b> , 23, 2164	0
289	DMSO??????CsPbBr3????????. <b>2023</b> ,	О
288	Review on Enhancement of Stability and Efficiency of Perovskite Solar Cell. <b>2023</b> , 2426, 012015	O
287	Halide perovskite quantum dots for photocatalytic CO2 reduction.	О
286	Recent developments in lead-free bismuth-based halide perovskite nanomaterials for heterogeneous photocatalysis under visible light. <b>2023</b> , 15, 5598-5622	О
285	Effective light management, stretchable and transparent nanofiber electrode via the incorporation of phosphors into composite nanofibers for wearable perovskite solar cells. 004051752311545	О
284	Design Perspective, Fabrication, and Performance Analysis of Formamidinium Tin Halide Perovskite Solar Cell. <b>2023</b> , 13, 404-410	O

283	Room temperature synthesis of double perovskite Cs2AlBiCl6 for photovoltaic applications. <b>2023</b> , 137, 113570	О
282	Recent advances in carbon-based materials for high-performance perovskite solar cells: gaps, challenges and fulfillment. <b>2023</b> , 5, 1492-1526	O
281	First Demonstration of Top Contact-Free Perovskite/Silicon Two-Terminal Tandem Solar Cells for Overcoming the Current Density Hurdle. <b>2023</b> , 6, 2687-2697	О
280	Investigation on guanidinium bromide incorporation in methylammonium lead iodide for enhanced efficiency and stability of perovskite solar cells. <b>2023</b> , 253, 1-8	Ο
279	Carbon Electrodes: The Rising Star for PSC Commercialization. <b>2023</b> , 12, 992	О
278	Nanoengineering TripletII riplet Annihilation Upconversion: From Materials to Real-World Applications. <b>2023</b> , 17, 3259-3288	1
277	Interfacial modification of in-situ polymerized AMPS/NiFe2O4 quantum dots for efficient and air-stable CsPbBr3 perovskite solar cells. <b>2023</b> , 461, 141943	О
276	Bidirectional Targeted Therapy Enables Efficient, Stable, and Eco-Friendly Perovskite Solar Cells. 2214714	О
275	Orientation Engineering via 2D Seeding for Stable 24.83% Efficiency Perovskite Solar Cells. <b>2023</b> , 13,	Ο
274	Organic bromide solutions-processed all-inorganic perovskite for efficient and stable photovoltaics. <b>2023</b> , 38, 045007	О
273	Properties and alcohol sensing applications of quasi-2D (PEA)2(MA)3Sb2Br9 thin films. 2023, 18,	Ο
272	Reversible Luminescent Switching Induced by Heat/Water Treatment in a Zero-Dimensional Hybrid Antimony(III) Chloride. <b>2023</b> , 28, 1978	О
271	Toxicity, Leakage, and Recycling of Lead in Perovskite Photovoltaics. <b>2023</b> , 13,	1
270	High-throughput screening of hybrid quaternary halide perovskites for optoelectronics. <b>2023</b> , 11, 6465-6473	О
269	One-stone-for-two-birds strategy to attain beyond 25% perovskite solar cells. <b>2023</b> , 14,	О
268	Reinforcing the efficiency and stability of perovskite solar cells using a cesium sulfate additive. <b>2023</b> , 34,	О
267	Recent advances in photocatalytic oxidation techniques for decontamination of water. 2023, 52, 103572	Ο
266	Non-collinear magnetism in the post-perovskite thiocyanate frameworks CsM(NCS)3. <b>2023</b> , 14, 3531-3540	О

265	17.3% efficiency CsPbI2Br solar cells by integrating a Near-infrared absorbed organic Bulk-heterojunction layer. <b>2023</b> , 461, 142025	O
264	Ionic and electronic energy diagrams for hybrid perovskite solar cells.	O
263	Orientation control of two-dimensional perovskite (CH3(CH2)3NH3)2(CH3NH3) ndPbnI3n+1 (n = 2) thin films by thermal annealing. <b>2023</b> , 62, SK1007	0
262	Operational stability study of hole transport-free perovskite solar cells using lithium fluoride in electron transport layer. <b>2023</b> , 34,	O
261	Toward high-efficiency perovskite solar cells with one-dimensional oriented nanostructured electron transport materials. <b>2023</b> , 82, 66-87	O
260	Cubic or Not Cubic? Combined Experimental and Computational Investigation of the Short-Range Order of Tin Halide Perovskites. <b>2023</b> , 14, 2178-2186	O
259	Optical Sensing Capability Evaluation for Methylammonium Based Perovskites for Explosive.	0
258	Ultrafast optical investigation of carrier and spin dynamics in low-dimensional perovskites.	O
257	Cerium oxide nanoparticle as interfacial modifier for efficient and UV-stable perovskite solar cells. <b>2023</b> , 462, 142047	O
256	Perovskite-Sensitized Upconversion under Operando Conditions. <b>2023</b> , 127, 4773-4783	O
255	Zirconia Spacer: Preparation by Low Temperature Spray-coating and Application in Triple-layer Perovskite Solar Cells. <b>2023</b> , 38, 213	O
254	The First-Principles Investigation of Structural Stability, Mechanical, Vibrational, Thermodynamic, and Optical Properties of CaHfS3 for Optoelectronic Application. <b>2023</b> , 2023, 1-13	0
253	Temperature-Dependent Reversal of Phase Segregation in Mixed-Halide Perovskites. 2210834	O
252	Impact of band alignment at interfaces in perovskite-based solar cell devices. 2023,	O
251	Rapid Interlayer Charge Separation and Extended Carrier Lifetimes due to Spontaneous Symmetry Breaking in Organic and Mixed Organic Inorganic Dion Dacobson Perovskites. <b>2023</b> , 145, 5297-5309	0
250	Identification of lead-free double halide perovskites for promising photovoltaic applications: first-principles calculations. <b>2023</b> , 138,	O
249	3D Polydentate Complexing Agents for Passivating Defects and Modulating Crystallinity for High-Performance Perovskite Solar Cells. 2212577	0
248	Optoelectronic Study of Polymer Electrolyte Incorporated Perovskite Sensitized Solar Cell. <b>2023</b> , 407,	0

247	Designing of silolothiophene-linked triphenylamine-based hole transporting materials for perovskites and donors for organic solar cells-A DFT study. <b>2023</b> , 253, 187-198	0
246	Opportunities and challenges of hole transport materials for high-performance inverted hybrid-perovskite solar cells. 20220027	Ο
245	Recent progress with one-dimensional metal halide perovskites: from rational synthesis to optoelectronic applications. <b>2023</b> , 15,	0
244	Facet Engineering for Decelerated Carrier Cooling in Polyhedral Perovskite Nanocrystals. <b>2023</b> , 23, 1946-1953	3 3
243	A multifunctional additive strategy to stabilize the precursor solution and passivate film defects for MA-free perovskite solar cells with an efficiency of 22.75%. <b>2023</b> , 33, 101269	О
242	Collaborative Passivation for Dual Charge Transporting Layers Based on 4-(chloromethyl)benzonitrile Additive toward Efficient and Stable Inverted Perovskite Solar Cells. 2207445	Ο
241	Constructing gradient structure to increase efficiency for carbon-based hole transport layer free all-inorganic perovskite solar cells using SCAPS-1D. <b>2023</b> , 253, 240-249	0
240	Numerical simulation of electron-transport-layer-free CH3NH3Pb(I1\(\mathbb{B}\)Brx)3 perovskite solar cells. <b>2023</b> , 55,	Ο
239	Multifunctional anthraquinone-sulfonic potassium salts passivate the buried interface for efficient and stable planar perovskite solar cells. <b>2023</b> , 25, 8403-8411	О
238	Nanoscale Thermal Strain Engineering-Driven Ferroelastic Domain Evolution in CH3NH3PbI3 Perovskites. <b>2023</b> , 15, 12502-12510	O
237	Printing technologies for silicon solar cell metallization: A comprehensive review.	О
236	Electron Transfer Dynamics from CsPbBr3 Nanocrystals to Au144 Clusters.	Ο
235	Two Birds with One Stone: Defect Passivation and Energy Level Optimization Achieved by Using Ionic Liquid Additives for Printable Mesoscopic Perovskite Solar Cells with Efficiency beyond 16%. <b>2023</b> , 6, 2936-2944	О
234	Fluorescence. <b>2023</b> , 245-329	Ο
233	Tuning Perovskite Surface Polarity via Dipole Moment Engineering for Efficient Hole-Transport-Layer-Free Sn <b>P</b> b Mixed-Perovskite Solar Cells. <b>2023</b> , 15, 15321-15331	О
232	Concurrent Top and Buried Surface Optimization for Flexible Perovskite Solar Cells with High Efficiency and Stability. 2212698	Ο
231	Isomeric imidazole functionalized bithiophene-based hole transporting materials for stable perovskite solar cells. <b>2023</b> , 4, 101312	0
230	Fabrication of an ultrathin PEG-modified PEDOT:PSS HTL for high-efficiency Sn <b>P</b> b perovskite solar cells by an eco-friendly solvent etching technique. <b>2023</b> , 11, 7246-7255	Ο

229	Passivation Engineering Using Ultrahydrophobic Donor Acceptor Organic Dye with Machine Learning Insights for Efficient and Stable Perovskite Solar Cells. 2201016	O
228	Effective Passivation of Perovskite Solar Cells Involving a Unique Secondary Ammonium Halide Modulator. 2300080	O
227	Influence of Organic-Cation Defects on Optoelectronic Properties of ASnI 3 Perovskites A=HC(NH 2 ) 2 , CH 3 NH 3. <b>2023</b> , 62,	O
226	Multifunctional Green Solvent for Efficient Perovskite Solar Cells.	O
225	Influence of Organic-Cation Defects on Optoelectronic Properties of ASnI 3 Perovskites A=HC(NH 2 ) 2 , CH 3 NH 3. <b>2023</b> , 135,	0
224	Predicting Sulfur-Rich Oxysulfide Perovskites for Water-Splitting Applications Using Machine Learning. 2200694	O
223	Hydrothermal Deposition of UV-Absorbing Passivation Layers for Efficient and Stable Perovskite Solar Cells. 2200203	O
222	Synergistic Toughening and Self-Healing Strategy for Highly Efficient and Stable Flexible Perovskite Solar Cells. 2214984	Ο
221	Improved Crystallization of Lead Halide Perovskite in Two-Step Growth Method by Polymer-Assisted Blow-Release Effect[12023, 7,	1
220	Inhibited Degradation of OrganicIhorganic Perovskite-Based Quantum Dot Films via Rapid Annealing Temperatures. <b>2023</b> , 13, 452	O
219	Bulk Perovskite Crystal Properties Determined by Heterogeneous Nucleation and Growth. <b>2023</b> , 16, 2110	0
218	Pure Chloride 2D/3D Heterostructure Passivation for Efficient and Stable Perovskite Solar Cells. 2200189	Ο
217	Physical vapor deposition of Yb-doped Cs2AgSbBr6 films. <b>2023</b> , 41, 022206	Ο
216	Investigation of the Cobalt-Additive Role in Improving the Performance of Formamidium Lead Triiodide Based Solar Cells.	O
215	Theoretical Selection of 2D Perovskite for Constructing Efficient Heterojunction Solar Cells. <b>2023</b> , 5, 970-978	0
214	Regioselective Multisite Atomic-Chlorine Passivation Enables Efficient and Stable Perovskite Solar Cells. <b>2023</b> , 145, 5872-5879	O
213	Deciphering the Roles of MA-Based Volatile Additives for FAPbI3 to Enable Efficient Inverted Perovskite Solar Cells. <b>2023</b> , 145, 5920-5929	O
212	A functionalized polyamide acid additive for perovskite solar cells with high efficiency and stability.	O

211	Intricate Reaction Pathways on CH3NH3PbI3 Photocatalysts in Aqueous Solution Unraveled by Single-Particle Spectroscopy. <b>2023</b> , 14, 2565-2572	О
210	Advancing Lead-Free Cs2AgBiBr6 perovskite solar cells: Challenges and strategies. <b>2023</b> , 253, 563-583	O
209	Interactions of Pyridine-Based Organic Cations as Structure-Determining Factors in Perovskite-Related Compounds A $\times$ Pb(II) $\times$ Br $\times$ Pb (II) $\times$ Br $\times$ Pb (II)	O
208	Efficient and Stable Inverted Perovskite Solar Cells Using DonorAcceptorDonor Small Molecules to Tuning NiO x /Perovskite Interfacial Microstructure. 2300018	O
207	Bridging the inter-grain charge transport via organic semiconductors for high-performance thickness-insensitive perovskite solar cells.	O
206	Composition engineering of perovskite absorber assisted efficient textured monolithic perovskite/silicon heterojunction tandem solar cells. <b>2023</b> , 13, 7886-7896	O
205	Luminescent hybrid halides with various centering metal cations (Zn, Cd and Pb) and diverse structures.	O
204	Radical reinforced defect passivation strategy for efficient and stable MAPbI3 perovskite solar cells fabricated in air using a green anti-solvent process. <b>2023</b> , 462, 142328	O
203	Rational Regulation of Organic Spacer Cations for Quasi-2D Perovskite Solar Cells. 2300132	0
202	Native point defects in antiperovskite Ba3SbN: a promising semiconductor for photovoltaics. <b>2023</b> , 25, 9800-9806	O
201	Chemical vapor deposition growth and photodetector performance of lead-free all-inorganic crystalline Cs3Sb2X9 (X = I, Br) perovskite thin films. <b>2023</b> , 11, 4603-4613	O
200	Ameliorating Properties of Perovskite and PerovskiteBilicon Tandem Solar Cells via Mesoporous Antireflection Coating Model. <b>2023</b> , 9,	O
199	Influence of alkyl chain length on the photovoltaic properties of dithienopyran-based hole-transporting materials for perovskite solar cells.	0
198	Performance analysis of NiO-based perovskite solar cell model. 2023,	O
197	Two-Dimensional $\operatorname{Cs} 2 \operatorname{AgIn} \times \operatorname{Bi} 1 - \times \operatorname{Cl} 6 \operatorname{Alloyed} \operatorname{Double} \operatorname{Perovskite} \operatorname{Nanoplatelets} \operatorname{for} \operatorname{Solution-Processed} \operatorname{Light-Emitting} \operatorname{Diodes}.$	0
196	Enabling Perovskite Solar Cell Omnidirectional Light Utilizing Via Trapping Technology. 2300135	O
195	Probing the Local Electronic Structure in Metal Halide Perovskites through Cobalt Substitution. 2300095	O
194	Designed multi-layer buffer for high-performance semitransparent wide-bandgap perovskite solar cells. <b>2023</b> , 4, 1777-1784	O

193	Synergistic Crystallization Modulation and Defects passivation via Additive Engineering Stabilize Perovskite Films for Efficient Solar Cells. 2215096	Ο
192	Divalent organic cations as a novel protective layer for perovskite materials.	O
191	Tuning white light emission and band gap in the one-dimensional metal halide (C6H13N4)3Pb2Br7 by pressure engineering. <b>2023</b> , 11, 5018-5023	0
190	Passivating Perovskites in Air Via an Alternating Cation Interlayer Phase Formed by Benzylamine Vapor Fumigation. 2214731	O
189	Enlightening the temperature coefficient of triple mesoscopic CH3NH3PbI3☑ Cl x /NiO and double mesoscopic CsFAMAPbI3☑ Br x /CuSCN carbon perovskite solar cells. <b>2023</b> , 5, 025006	O
188	Morphology-Dependent Carrier Accumulation Dynamics in Mixed Halide Perovskite Thin Films Caused by Phase Segregation. <b>2023</b> , 14, 2800-2806	O
187	Numerical study of eco-friendly Sn-based Perovskite solar cell with 25.48% efficiency using SCAPS-1D. <b>2023</b> , 34,	0
186	Can two-dimensional graphdiyne-based materials be novel materials for perovskite solar cell applications?. <b>2023</b> , 2, 027501	O
185	Ferroelectric polarization and interface engineering coupling of Z-scheme ZnIn2S4/\(\perp\)n2Se3 heterostructure for efficient photocatalytic water splitting. <b>2023</b> , 133, 105702	0
184	Theoretical Analysis of All-Inorganic Wide Bandgap Perovskite/Sn-Based Narrow Bandgap Perovskite Tandem Solar Cells. 2300081	O
183	Suppressed Voltage Deficit and Degradation of Perovskite Solar Cells by Regulating the Mineralization of Lead Iodide. 2207817	0
182	Contact Engineering and In Situ Formation of 2D Perovskite Via Solid-Phase Growth for Efficient Hole-Transport-Layer-Free Perovskite Solar Cells. 2300020	O
181	Interlayer engineering via alkaline hypophosphates for efficient and air-stable perovskite solar cells.	O
180	Highly Improved Photocurrent Density and Efficiency of Perovskite Solar Cells via Inclined Fluorine Sputtering Process. 2301033	O
179	Fine-tuning chemical passivation over photovoltaic perovskites by varying the symmetry of bidentate acceptor in DA molecules. <b>2023</b> , 11, 8299-8307	O
178	A Polymer Defect Passivator for Efficient Hole-Conductor-Free Printable Mesoscopic Perovskite Solar Cells. 2300473	O
177	Photoelectrochemically Induced CO2 Reduction Using Halide-Tunable Lead-Free Perovskites. <b>2023</b> , 6, 3566-3578	0
176	Dimensional Tuning of Perylene Diimide-Based Polymers for Perovskite Solar Cells with Over 24% Efficiency. 2301175	0

175	WO3:AgInS2 quantum dot electron transport layers in enhanced perovskite solar cells. <b>2023</b> , 38, 1882-1893	О
174	MDACl2-Modified SnO2 Film for Efficient Planar Perovskite Solar Cells. <b>2023</b> , 28, 2668	Ο
173	Surface in situ reconstruction of inorganic perovskite films enabling long carrier lifetimes and solar cells with 21% efficiency.	О
172	Stable FAPbI3 hydrate structure by kinetics negotiation for solar cells. <b>2023</b> , 7, 1974-1980	O
171	Phase transition engineering for effective defect passivation to achieve highly efficient and stable perovskite solar cells.	О
170	Emission Control in Metal Halide Perovskite Lasers.	Ο
169	High Performance Inverted RbCsFAPbI 3 Perovskite Solar Cells Based on Interface Engineering and Defects Passivation. 2207950	О
168	Improved Thermal Stability and Film Uniformity of Halide Perovskite by Confinement Effect brought by Polymer Chains of Polyvinyl Pyrrolidone. 2207848	O
167	Formate additive for efficient and stable methylammonium-free perovskite solar cells by gas-quenching.	О
166	Nanostructured Ruddlesden <b>P</b> opper-Layered Lead Bromide Perovskites with Stable and Selected Wavelength for Photodetection Applications. <b>2023</b> , 6, 5187-5199	Ο
165	Pathway to the Polyvinyl-Acetate-Assisted PEDOT:PSS as a Dopant-Free Hole Transporting Material in Planar Heterojunction Perovskite Solar Cells.	О
164	Metal-Organic Framework Materials in Perovskite Solar Cells: Recent Advancements and Perspectives. 2208119	O
163	Low-Threshold, External-Cavity-Free Flexible Perovskite Lasers. 2211841	О
162	Foldable Hole-Transporting Materials for Merging Electronic States between Defective and Perfect Perovskite Sites. 2300720	O
161	Modeling the Electronic and Optical Properties of Lead-Based Perovskite Materials: Insights from Density Functional Theory and Electrostatic Embedding. <b>2023</b> , 127, 5968-5981	О
160	Colloidal CsPbX3 Nanocrystals with Thin Metal Oxide Gel Coatings. <b>2023</b> , 35, 2827-2834	O
159	Confinement and Exciton Binding Energy Effects on Hot Carrier Cooling in Lead Halide Perovskite Nanomaterials. <b>2023</b> , 17, 6638-6648	O
158	Review on Carbazole-Based Hole Transporting Materials for Perovskite Solar Cell. <b>2023</b> , 6, 3635-3664	О

157	3,5-dichlorobenzylamine lead high-performance and stable 2D/3D perovskite solar cells. <b>2023</b> , 34,	О
156	Distinguishing Electron Diffusion and Extraction in Methylammonium Lead Iodide. <b>2023</b> , 14, 3007-3013	O
155	A low-symmetry monothiatruxene-based hole transport material for planar ntp perovskite solar cells with 18.9% efficiency.	О
154	Imidazolium Functionalized Polyelectrolyte Assisted Perovskite Crystallization for Efficient and Stable Perovskite Solar Cells.	O
153	Upcycled synthesis and extraction of carbon-encapsulated iron carbide nanoparticles for gap Plasmon applications in perovskite solar cells.	0
152	Crystal Growth Regulation of ⊞APbI 3 Perovskite Films for High-Efficiency Solar Cells with Long-Term Stability. 2214834	O
151	N -Heterocyclic Olefin Type Ionic Liquid with Innate Soft Lewis-Base Character as an Effective Additive for Hybrid Quasi-2D and 3D Perovskite Solar Cells. 2300013	0
150	Improving the charge carrier separation efficiency at the perovskite/carbon electrode interface in HTL-free carbon-based perovskite solar cells via physical polishing. <b>2023</b> , 56, 215102	O
149	Fabrication of inverted planar perovskite solar cells using the iodine/ethanol solution method for copper iodide as a hole transport layer. <b>2023</b> , 62, SK1016	0
148	Carrier Dynamics Determines the Optimization Strategies of Perovskite LEDs and PVs. 2023, 6,	O
147	Ambient-Air-Stable Inverted Perovskite Solar Cells by Carbazole Analog Tailored Perovskite Thin Films.	0
146	The Latest Progress in Effect Factors and Related Applications of Perovskite Solar Cells. 37, 363-369	O
145	Influence of Elinker on pyrone-based hole transporting materials in perovskite solar cells. 2023, 49, 701-710	O
144	Recent Progress on Synthesis, Intrinsic Properties and Optoelectronic Applications of Perovskite Single Crystals. 2214339	O
143	A molecular dynamics study of water confined in between two graphene sheets under compression. <b>2023</b> , 25,	0
142	A first-principles study of electronic, optical and thermoelectric properties of TlXF3 (X: Zn, Sr) perovskite crystal structure. <b>2023</b> , 98, 055907	O
141	First-principles study of the lattice thermal conductivity of the nitride perovskite LaWN3. <b>2023</b> , 107,	0
140	Experimental and numerical investigations on feasibility of inorganic KSnCl3 perovskite absorber and SWCNT-HTL for solar cells. <b>2023</b> , 9, e14802	О

139	Explainable machine learning for predicting the band gaps of ABX3 perovskites. 2023, 161, 107427	O
138	The Properties of the CH3NH3PbI3/TiO2 Composite Layer Prepared from PbO-TiO2 Mesoporous Layer under Air Ambience. <b>2023</b> , 13, 669	O
137	Numerical Investigation of Electron/Hole Transport Layer for Enhancement of Ecofriendly Tin-Ge Based Perovskite Solar Cell. <b>2023</b> , 45, 3087-3106	О
136	An Overview of Lead, Tin, and Mixed Tin[lead-Based ABI 3 Perovskite Solar Cells. 2200160	O
135	Advances in the Synthesis of Halide Perovskite Single Crystals for Optoelectronic Applications. <b>2023</b> , 35, 2683-2712	О
134	A Top-Down Strategy for Reforming the Characteristics of NiO Hole Transport Layer in Inverted Perovskite Solar Cells.	0
133	Skin-Interfaced Wearable Sweat Sensors for Precision Medicine.	O
132	Chemical Chelation-Assisted Highly Oriented Perovskite Solar Cells with Reduced Non-radiative Loss. <b>2023</b> , 11, 5589-5596	O
131	Targeted suppression of hysteresis effect in perovskite solar cells through the inhibition of cation migration. <b>2023</b> , 122, 133502	О
130	Electronic band structure, mechanical and optical characteristics of new lead-free halide perovskites for solar cell applications based on DFT computation. <b>2023</b> , 46,	O
129	Compact TiO2 layer by UV-assisted TiBr4 chemical bath deposition for perovskite solar cells. <b>2023</b> , 161, 107467	О
128	Integrated Photo - rechargeable Batteries: Photoactive Nanomaterials and Opportunities. <b>2023</b> , 375, 02010	O
127	Void of lead and non-carcinogenic germanium based RbGeI3 PSC using organic charge transport layers: towards a clean and green future. <b>2023</b> , 34,	O
126	Enhanced Interstitial Oxygen-Enabled Efficient CuAl(M)O2 Hole Extractors for Air-Stable All-Inorganic Perovskite Solar Cells. <b>2023</b> , 11, 5665-5673	O
125	Inkjet-Printed Organic Solar Cells and Perovskite Solar Cells: Progress, Challenges, and Prospect.	О
124	Buried interface passivation strategies for high-performance perovskite solar cells.	O
123	Numerical simulation study of CsPb0.625Zn0.375IBr2 perovskite solar cell. <b>2023</b> ,	О
122	Simulation of Boosting Efficiency of GaAs Absorption Layers with KNbO3 Scatterers for Solar Cells. <b>2023</b> , 16, 3067	0

121	Re-emerging photo responsiveness enhancement under compression in (NH4)2SeBr6. <b>2023</b> , 122, 132101	О
120	High-Efficiency CsPbI2Br Perovskite Solar Cells with over 83% Fill Factor by Synergistic Effects of a Multifunctional Additive. <b>2023</b> , 62, 5408-5414	O
119	High-performance pff perovskite photodetectors and image sensors with long-term operational stability enabled by a corrosion-resistant titanium nitride back electrode.	O
118	Laterally Grown Strain-Engineered Semitransparent Perovskite Solar Cells with 16.01% Efficiency. <b>2023</b> , 15, 17994-18005	O
117	Co-Solvent Engineering Contributing to Achieve High-Performance Perovskite Solar Cells and Modules Based on Anti-Solvent Free Technology.	O
116	Fluorinated- and non-fluorinated-diarylamine-Zn(ii) and Cu(ii) phthalocyanines as symmetrical vs. asymmetrical hole selective materials.	O
115	Investigation of structural, morphological, and electrical conductivity study for understanding transport mechanisms of perovskite CH3NH3HgCl3. <b>2023</b> , 13, 10036-10050	О
114	Photonically Cured Solution-Processed SnO2 Thin Films for High-Efficiency and Stable Perovskite Solar Cells and Minimodules. <b>2023</b> , 6, 3996-4006	O
113	High performance flexible Sn-Pb mixed perovskite solar cells enabled by a crosslinking additive. <b>2023</b> , 7,	O
112	Controlling Molecular Orientation of Small Molecular Dopant-Free Hole-Transport Materials: Toward Efficient and Stable Perovskite Solar Cells. <b>2023</b> , 28, 3076	O
111	Ab initio study of fundamental properties of ACdX3 (A = K, Rb, Cs; and X = F, Cl, Br) halide perovskite compounds.	0
110	Compositional gradient engineering and applications in halide perovskites.	O
109	Rubidium Iodide Reduces Recombination Losses in Methylammonium-Free Tin-Lead Perovskite Solar Cells.	O
108	Optimal Enhancement of Power Conversion Efficiency of Monolithic Perovskite Solar Cells by Effect of Methylammonium (MAI). 77, 135-143	O
107	Highly Efficient 2D/3D Mixed-Dimensional Cs2PbI2Cl2/CsPbI2.5Br0.5 Perovskite Solar Cells Prepared by Methanol/Isopropanol Treatment. <b>2023</b> , 13, 1239	O
106	Phase Control of Organometal Halide Perovskites for Development of Highly Efficient Solar Cells.	O
105	Enhancing Photovoltaic Performance of Hybrid Perovskite Solar Cells Utilizing GaP Nanowires. <b>2023</b> , 6, 3696-3704	O
104	Tuning the photovoltaic performance of perovskite solar cells by simple incorporation of ZnO QDs into the mesoporous titania layer. <b>2023</b> , 58, 6267-6280	O

103	Solar cell capacitance simulation and experimental photovoltaic performance analysis of perovskite solar cell based on CsGeI3. <b>2023</b> ,	О
102	Exploring Solar Cells Based on Lead- and Iodide-Deficient Halide Perovskite (d-HP) Thin Films. <b>2023</b> , 13, 1245	O
101	Review on Chemical Stability of Lead Halide Perovskite Solar Cells. 2023, 15,	О
100	Perovskite solar cells approaching 25% PCE using side chain terminated hole transport materials with low concentration in a non-halogenated solvent process.	O
99	Concise synthesis of low-cost fullerene derivatives as electron transport materials for efficient air-processed invert perovskite solar cells. <b>2023</b> , 642, 497-504	О
98	Sn-Based Perovskite Solar Cells towards High Stability and Performance. <b>2023</b> , 14, 806	О
97	The Tetrel Bond and Tetrel Halide Perovskite Semiconductors. <b>2023</b> , 24, 6659	О
96	Mapping the pathways of photo-induced ion migration in organic-inorganic hybrid halide perovskites. <b>2023</b> , 14,	O
95	Light Soaking Effects in Perovskite Solar Cells: Mechanism, Impacts, and Elimination.	О
94	Exploring, Identifying, and Removing the Efficiency-Limiting Factor of Mixed-Dimensional 2D/3D Perovskite Solar Cells. <b>2023</b> , 56, 959-970	O
93	Enhanced Performance and Stability of Fully Printed Perovskite Solar Cells and Modules by Ternary Additives under High Humidity. <b>2023</b> , 37, 6049-6061	О
92	Insights into the replacement of FA by Cs in FAPbI3\( \text{ICL}\) thin film fabricated in atmospheric conditions: Inspection of solar cell and photocatalytic performances. <b>2023</b> , 953, 169930	O
91	All-inorganic perovskite solar cells featuring mixed group IVA cations.	О
90	A novel perylene diimide-based ionene polymer and its mixed cathode interlayer strategy for efficient and stable inverted perovskite solar cells. <b>2023</b> ,	O
89	Multifunctional Anti-Corrosive Interface Modification for Inverted Perovskite Solar Cells.	О
88	Improved Open-Circuit Voltage of AZO/CsPbBr3/Carbon Structure Perovskite Solar Cells by an Al-Doped ZnO Electron Transport Layer. <b>2023</b> , 127, 7492-7500	О
87	Organic ligands/dyes as photon-downshifting materials for clean energy. 2023, 265-280	О
86	Advances in the large-scale production, fabrication, stability, and lifetime considerations of electronic materials for clean energy applications. <b>2023</b> , 27-60	О

85	Metal halide perovskite nanomaterials for battery applications. 2023, 537-568	О
84	Lead-free Metal Halide Perovskites for Solar Energy. <b>2023</b> , 189-222	О
83	Enhancing multi-state programming and synaptic plasticity through optical stimulation in Bi-alloyed Cs2AgInCl6 double perovskite based memristor. <b>2023</b> , 169999	О
82	Performance enhancement by an embedded microlens array in perovskite solar cells.	O
81	Two-Step Vapor-Solid Reaction for the Growth of High-Quality CsFA-Based Lead Halide Perovskite Thin Films.	О
80	Improving the Solar Energy Utilization of Perovskite Solar Cells via Synergistic Effects of Alkylamine and Alkyl Acid on Defect Passivation.	O
79	Numerical simulation and experimental study of methyl ammonium bismuth iodide absorber layer based lead free perovskite solar cells.	0
78	The role of different dopants of Spiro-OMeTAD hole transport material on the stability of perovskite solar cells: A mini review. <b>2023</b> , 112076	Ο
77	Multiscale architected porous materials for renewable energy conversion and storage. <b>2023</b> , 59, 102768	0
76	SnO2:TiO2 hybrid nanocrystals as electron transport layer for high-efficiency and stable planar perovskite solar cells. <b>2023</b> , 106815	O
75	Hydrogen-bond-bridged intermediate for perovskite solar cells with enhanced efficiency and stability.	0
74	Numerical Analysis of Stable (FAPbI3)0.85(MAPbBr3)0.15-Based Perovskite Solar Cell with TiO2/ZnO Double Electron Layer. <b>2023</b> , 13, 1313	O
73	Recent progress in lanthanide ions doped inorganic metal halide perovskites. 2023,	О
7 <sup>2</sup>	Advantageous properties of halide perovskite quantum dots towards energy-efficient sustainable applications. <b>2023</b> ,	O
71	Efficient and stable perovskite solar cells by build-in Ecolumns and ionic interfaces in covalent organic frameworks.	0
70	Theoretical investigation of the mechanical properties of single- and multi-layer CH3NH3XI3 (X = Pb, Sn, Mn) perovskites at various temperatures and pressures.	O
69	Elucidating the Role of Contact-Induced Gap States and Passivation Molecules at Perovskite/Metal Contacts.	0
68	Spontaneous Internal Encapsulation via Dual Interfacial Perovskite Heterojunction Enables Highly Efficient and Stable Perovskite Solar Cells.	O

67	Investigation of Structural with Electronic Properties of Methylammonium Lead Iodide Perovskite Using Density Functional Theory. <b>2022</b> , 107-113	0
66	New investigated lead free double perovskite materials Rb2LiBiX6 (X= Cl, F, Br, I) for optoelectronics and solar cell applications via first principle calculations. <b>2023</b> , 366-367, 115162	Ο
65	Perovskite solar cells using NaF additive with enhanced stability under air environment. 2023, 142409	O
64	Recent Advances on Small Band Gap Semiconductor Materials (2.1 eV) for Solar Water Splitting. <b>2023</b> , 13, 728	Ο
63	First-principles calculations and device characterizations of formamidinium-cesium lead triiodide perovskite crystals stabilized by germanium or copper. <b>2023</b> , 62, SK1015	0
62	Copper- and Silver-Containing Heterometallic Iodobismuthates: Features of Thermochromic Behavior. <b>2023</b> , 24, 7234	Ο
61	Antimony Potassium Tartrate Stabilizes Wide-Bandgap Perovskites for Inverted 4-T All-Perovskite Tandem Solar Cells with Efficiencies over 26%. <b>2023</b> , 15,	0
60	Binary Hole Transport Layer Enables Stable Perovskite Solar Cells with PCE Exceeding 24%. <b>2023</b> , 100004	Ο
59	Recent Progress of Film Fabrication Process for Carbon-Based All-Inorganic Perovskite Solar Cells. <b>2023</b> , 13, 679	0
58	Recent progress in chalcogenide perovskites: toward low-temperature solution processing. <b>2023</b> , 26, 17-31	Ο
57	Low-Cost Hydroxyacid Potassium Synergists as an Efficient In Situ Defect Passivator for High Performance Tin-Oxide-Based Perovskite Solar Cells.	О
56	Halide Perovskite glues activate two-dimensional covalent organic framework crystallites for selective NO2 sensing. <b>2023</b> , 14,	Ο
55	Improve Efficiency and Reduce Cost of Perovskite-Based Solar Cell. 2022,	0
54	Design of Lead Hybrid Halide Perovskite for Solar Cells. <b>2023</b> , 2473, 012022	Ο
53	Bifunctional hole-shuttle molecule for improved interfacial energy level alignment and defect passivation in perovskite solar cells.	0
52	Low-Dimensional 2-thiopheneethylammonium Lead Halide Capping Layer Enables Efficient Single-Junction Methylamine-Free Wide-Bandgap and Tandem Perovskite Solar Cells.	Ο
51	Improved Photo(electro)chemical Response and Solar Cell Performance of (ThEA)2PbI4-Based Layered Perovskites by Reduced Graphene Oxide (rGO).	0
50	Crystal Chemistry, Optic and Magnetic Characterizations of a New Copper Based Material Templated by Hexahydrodiazepine.	Ο

49	Inhibiting Interfacial Diffusion in Heterojunction Perovskite Solar Cells by Replacing Low-Dimensional Perovskite with Uniformly Anchored Quaternized Polystyrene.	0
48	Drastic influence of substituent position on orientation of 2D layers enables efficient and stable 3D/2D perovskite solar cells. <b>2023</b> , 101380	O
47	Rotatable Skeleton for the Alleviation of Thermally Accumulated Defects in Inorganic Perovskite Solar Cells. 2284-2291	O
46	Complete modelling and simulation of all perovskite tandem solar cells. <b>2023</b> , 294, 116506	O
45	Selectively localized growth of two-dimensional perovskites at grain boundaries for efficient and stable CsPbI3 perovskite solar cells. <b>2023</b> , 34, 101088	0
44	The Photochemical Stability of PbI2 and PbBr2: Optical and XPS and DFT Studies. <b>2023</b> , 13, 784	O
43	Operando Characterizations of Light-Induced Junction Evolution in Perovskite Solar Cells.	O
42	Advances in organic photovoltaic cells: a comprehensive review of materials, technologies, and performance. <b>2023</b> , 13, 12244-12269	O
41	Understanding the impact of surface roughness: changing from FTO to ITO to PEN/ITO for flexible perovskite solar cells. <b>2023</b> , 13,	O
40	Effects of Multifunctional Interlayers on the Performance of Perovskite Solar Cells. 2023,	O
39	0D Additive for Flexible All-inorganic Perovskite Solar Cells to Go Beyond 60,000 Flexible Cycles.	O
38	Unraveling Optical and Electrical Gains of Perovskite Solar Cells with an Antireflective and Energetic Cascade Electron Transport Layer.	O
37	All-Perovskite Tandem Solar Cells: From Certified 25% and Beyond. <b>2023</b> , 16, 3519	O
36	Uncovering the Role of Electronic Doping in Lead-free Perovskite (CH 3 NH 3 ) 2 CuCl 4- $x$ Br $x$ and Solar Cells Fabrication.	О
35	The influence of the capping ligands on the optoelectronic performance, morphology, and ion liberation of CsPbBr3 perovskite quantum dots.	0
34	Efficient and stable full-printed mesoscopic perovskite solar cells with potassium hexafluorophosphate additives.	O
33	Perovskite Materials: Application Perspective. <b>2023</b> , 1-16	О
32	How Do Surface Polar Molecules Contribute to High Open-Circuit Voltage in Perovskite Solar Cells?.	O

31	Dodecahedron CsPbBr3 Perovskite Nanocrystals Enable Facile Harvesting of Hot Electrons and Holes. 3953-3960	O
30	Performance assessment of sustainable highly efficient CsSn0.5Ge0.5I3/FASnI3 based Perovskite Solar Cell: A numerical modelling approach. <b>2023</b> , 139, 113822	О
29	Electron Ptychographic Phase Imaging of Beam-sensitive All-inorganic Halide Perovskites Using Four-dimensional Scanning Transmission Electron Microscopy.	О
28	High-Efficiency Fiber-Shaped Perovskite Solar Cells with TiO2/SnO2 Double-Electron Transport Layer Materials.	O
27	Achieving a Highly Stable Perovskite Photodetector with a Long Lifetime Fabricated via an All-Vacuum Deposition Process.	O
26	Blue Perovskite Single-Mode Lasing in Rubidium Lead Bromide Microcubic Cavity.	o
25	Hybrid composites for optoelectronics. <b>2023</b> , 253-276	O
24	A simulation study of all inorganic lead-free CsSnBr3 tin halide perovskite solar cell. 2023,	o
23	Effect of Pressure on the Dynamics of Iodide Defects in Methylammonium Lead Iodide: An Atomistic Simulation.	O
22	Comparing between steady-state excitonic transitions and ultrafast polaronic photoexcitations in layered perovskites: the role of electronphonon interaction. <b>2023</b> ,	o
21	UV-Resistant Salicylic Acid as Interface Modifier for Efficient and Stable Perovskite Solar Cells. <b>2023</b> , 100087	O
20	In-depth study of the effect of annealing temperature on the structural, chemical, and optical properties of MAPI thin films prepared by a one-step deposition method. <b>2023</b> , 34,	o
19	Systematic investigation of the impact of kesterite and zinc based charge transport layers on the device performance and optoelectronic properties of ecofriendly tin (Sn) based perovskite solar cells. <b>2023</b> , 257, 58-87	O
18	Multifunctional Metal-organic Frameworks Capsules Modulate Reactivity of Lead Iodide toward Efficient Perovskite Solar Cells with Ultraviolet Resistance.	o
17	A2Bn $\blacksquare$ PbnI3n+1 (A = BA, PEA; B = MA; n = 1, 2): Engineering Quantum-Well Crystals for High Mass Density and Fast Scintillators.	O
16	2D-Self-Assembled Organic Materials in Undoped Hole Transport Bilayers for Efficient Inverted Perovskite Solar Cells. <b>2023</b> , 15, 22310-22319	O
15	Buried Interface Dielectric Layer Engineering for Highly Efficient and Stable Inverted Perovskite Solar Cells and Modules.	О
14	Spontaneous Hybrid Nano-Domain Behavior of the OrganicIhorganic Hybrid Perovskites.	О

13	4-Iodo-1H-imidazole dramatically improves the open-circuit voltages of perovskite solar cells to 1.2 V. <b>2023</b> , 47, 9913-9922	O
12	Synthesis, Properties, and Application of Small-Molecule Hole-Transporting Materials Based on Acetylene-Linked Thiophene Core. <b>2023</b> , 28, 3739	O
11	Development of Perovskite (MACl)0.33FA0.99MA0.01Pb(I0.99Br0.01)3 Solar Cells via n-Octylammonium Iodide Surface Passivation. <b>2023</b> , 13, 1492	О
10	Construction of a 3D/2D heterojunction based on a fluorinated cyclohexylamine 2D Ruddlesden <b>B</b> opper perovskite for highly efficient and stable perovskite solar cells. <b>2023</b> , 11,	O
9	Machine learning for perovskite solar cell design. <b>2023</b> , 226, 112215	0
8	Efficient Semi-Transparent Wide-Bandgap Perovskite Solar Cells Enabled by Pure-Chloride 2D-Perovskite Passivation. <b>2023</b> , 15,	O
7	Polar molecule as passivation agent towards enhanced carrier transport properties in perovskite solar cells. <b>2023</b> , 120, 106841	0
6	First principles investigations to study the impact of hydrostatic pressure on optoelectronic properties and stability of Rb2PdBr6. <b>2023</b> , 35, 106137	O
5	Synthesis, Characterization, and Reaction of Hypervalent Organo-<sup>3</sup>-bromanes and Chloranes. <b>2023</b> , 81, 416-427	O
4	Recent progress on efficient perovskite/organic tandem solar cells. 2023,	O
3	Influence of Al doping in zinc oxide electron transport layer for the degradation triple-cation-based organometal halide perovskite solar cells. <b>2023</b> , 9, e16069	0
2	Fabrication of efficient perovskite solar mini-modules with a high geometric fill factor of 96% via a nano-second laser.	O
1	3D-printed Polymer Composite Devices Based on a Ferroelectric Chiral Ammonium Salt for High-Performance Piezoelectric Energy Harvesting.	0