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Moisture assisted perovskite film growth for high performance solar cells

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#	Paper	IF	Citations
628	Vapor-assisted solution process for perovskite materials and solar cells. <b>2015</b> , 40, 667-673		32
627	Theory of Hydrogen Migration in Organic-Inorganic Halide Perovskites. <b>2015</b> , 127, 12614-12618		7
626	Direct Conversion of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> from Electrodeposited PbO for Highly Efficient Planar Perovskite Solar Cells. <b>2015</b> , 5, 15889		72
625	Organometal Halide Perovskites for Photovoltaic Applications. <b>2015</b> , 535-566		7
624	High-Quality Mixed-Organic-Cation Perovskites from a Phase-Pure Non-stoichiometric Intermediate (FAI) <sub>1-x</sub> PbI <sub>2</sub> for Solar Cells. <b>2015</b> , 27, 4918-23		132
623	Beyond Efficiency: the Challenge of Stability in Mesoscopic Perovskite Solar Cells. <b>2015</b> , 5, 1501066		335
622	Plasmonic-Induced Photon Recycling in Metal Halide Perovskite Solar Cells. <b>2015</b> , 25, 5038-5046		167
621	Organisch-anorganische Perowskit-Dünfilme für hocheffiziente Solarzellen. <b>2015</b> , 127, 3288-3297		25
620	Controllable Perovskite Crystallization by Water Additive for High-Performance Solar Cells. <b>2015</b> , 25, 6671-6678		282
619	Theory of hydrogen migration in organic-inorganic halide perovskites. <b>2015</b> , 54, 12437-41		112
618	High-Performance Semitransparent Perovskite Solar Cells with 10% Power Conversion Efficiency and 25% Average Visible Transmittance Based on Transparent CuSCN as the Hole-Transporting Material. <b>2015</b> , 5, 1500486		181
617	Single-Layer Light-Emitting Diodes Using Organometal Halide Perovskite/Poly(ethylene oxide) Composite Thin Films. <b>2015</b> , 27, 5196-202		252
616	Environmental Effects on the Photophysics of Organic-Inorganic Halide Perovskites. <b>2015</b> , 6, 2200-5		181
615	Solvent engineering of the electron transport layer using 1,8-diiodooctane for improving the performance of perovskite solar cells. <b>2015</b> , 24, 101-105		44
614	Efficiency Enhancement of Inverted Structure Perovskite Solar Cells via Oleamide Doping of PCBM Electron Transport Layer. <b>2015</b> , 7, 13659-65		108
613	Inverted planar NH <sub>2</sub> CH=NH <sub>2</sub> PbI <sub>3</sub> perovskite solar cells with 13.56% efficiency via low temperature processing. <b>2015</b> , 17, 19745-50		65
612	Controlled Humidity Study on the Formation of Higher Efficiency Formamidinium Lead Triiodide-Based Solar Cells. <b>2015</b> , 27, 4814-4820		108

611	Perovskites: Solar cells & engineering applications [materials and device developments. <b>2015</b> , 122, 678-699	90
610	Perovskite-polymer hybrid solar cells with near-infrared external quantum efficiency over 40%. <b>2015</b> , 58, 953-960	34
609	Interfaces in perovskite solar cells. <b>2015</b> , 11, 2472-86	293
608	Formation of thin films of organic-inorganic perovskites for high-efficiency solar cells. <b>2015</b> , 54, 3240-8	214
607	Perovskite Solar Cells: Do We Know What We Do Not Know?. <b>2015</b> , 6, 279-82	65
606	Water/alcohol soluble conjugated polymers for the interface engineering of highly efficient polymer light-emitting diodes and polymer solar cells. <b>2015</b> , 51, 5572-85	140
605	Morphology control of the perovskite films for efficient solar cells. <b>2015</b> , 44, 10582-93	136
604	Improving the TiO <sub>2</sub> electron transport layer in perovskite solar cells using acetylacetonate-based additives. <b>2015</b> , 3, 9108-9115	94
603	Perovskite solar cells: film formation and properties. <b>2015</b> , 3, 9032-9050	327
602	A low temperature gradual annealing scheme for achieving high performance perovskite solar cells with no hysteresis. <b>2015</b> , 3, 14424-14430	32
601	Air-processed, efficient CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /Clx perovskite solar cells with organic polymer PTB7 as a hole-transport layer. <b>2015</b> , 5, 66981-66987	28
600	Efficient and low-temperature processed perovskite solar cells based on a cross-linkable hybrid interlayer. <b>2015</b> , 3, 18483-18491	50
599	The Importance of Moisture in Hybrid Lead Halide Perovskite Thin Film Fabrication. <b>2015</b> , 9, 9380-93	366
598	High efficiency stable inverted perovskite solar cells without current hysteresis. <b>2015</b> , 8, 2725-2733	479
597	Efficient Light Harvester Layer Prepared by Solid/Mist Interface Reaction for Perovskite Solar Cells. <b>2015</b> , 7, 16907-12	22
596	Polyelectrolyte based hole-transporting materials for high performance solution processed planar perovskite solar cells. <b>2015</b> , 3, 15024-15029	83
595	Evolution of Organic/Inorganic Lead Halide Perovskite from Solid-State Iodoplumbate Complexes. <b>2015</b> , 119, 17065-17073	66
594	High efficiency perovskite solar cells using a PCBM/ZnO double electron transport layer and a short air-aging step. <b>2015</b> , 26, 30-35	73

593	Hole transporting material-free and annealing-free thermal evaporated planar perovskite solar cells with an ultra-thin CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /CLX layer. <b>2015</b> , 26, 104-108	14
592	Under the spotlight: The organic-inorganic hybrid halide perovskite for optoelectronic applications. <b>2015</b> , 10, 355-396	700
591	Multilayer Transparent Top Electrode for Solution Processed Perovskite/Cu(In,Ga)(Se,S) <sub>2</sub> Four Terminal Tandem Solar Cells. <b>2015</b> , 9, 7714-21	139
590	Ab Initio Molecular Dynamics Simulations of Methylammonium Lead Iodide Perovskite Degradation by Water. <b>2015</b> , 27, 4885-4892	323
589	A simple in situ tubular chemical vapor deposition processing of large-scale efficient perovskite solar cells and the research on their novel roll-over phenomenon in J-V curves. <b>2015</b> , 3, 12443-12451	57
588	A hybrid physical-chemical deposition process at ultra-low temperatures for high-performance perovskite solar cells. <b>2015</b> , 3, 12436-12442	45
587	Efficient and stable planar heterojunction perovskite solar cells with an MoO <sub>3</sub> /PEDOT:PSS hole transporting layer. <b>2015</b> , 7, 9427-32	182
586	Nucleation and Crystal Growth of Organic-Inorganic Lead Halide Perovskites under Different Relative Humidity. <b>2015</b> , 7, 9110-7	113
585	Fundamental physics behind high-efficiency organo-metal halide perovskite solar cells. <b>2015</b> , 3, 15372-15385	99
584	Highly efficient and stable planar heterojunction perovskite solar cells via a low temperature solution process. <b>2015</b> , 3, 12133-12138	81
583	Metal-halide perovskites for photovoltaic and light-emitting devices. <b>2015</b> , 10, 391-402	2083
582	High-performance CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells fabricated under ambient conditions with high relative humidity. <b>2015</b> , 54, 100305	32
581	Degradation by Exposure of Coevaporated CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Thin Films. <b>2015</b> , 119, 23996-24002	95
580	Interface and Composition Analysis on Perovskite Solar Cells. <b>2015</b> , 7, 26176-83	99
579	Investigation of the Interaction between Perovskite Films with Moisture via in Situ Electrical Resistance Measurement. <b>2015</b> , 7, 25113-20	56
578	High-performance perovskite solar cells fabricated by vapor deposition with optimized PbI <sub>2</sub> precursor films. <b>2015</b> , 5, 95847-95853	15
577	Improved Crystallization of Perovskite Films by Optimized Solvent Annealing for High Efficiency Solar Cell. <b>2015</b> , 7, 24008-15	219
576	Improved photovoltaic performance in perovskite solar cells based on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> films fabricated under controlled relative humidity. <b>2015</b> , 5, 93957-93963	25

575	The impact of precursor water content on solution-processed organometal halide perovskite films and solar cells. <b>2015</b> , 3, 19123-19128	51
574	Reliable solution processed planar perovskite hybrid solar cells with large-area uniformity by chloroform soaking and spin rinsing induced surface precipitation. <b>2015</b> , 5, 087125	12
573	Intrinsic Thermal Instability of Methylammonium Lead Trihalide Perovskite. <b>2015</b> , 5, 1500477	1386
572	Chlorine Incorporation for Enhanced Performance of Planar Perovskite Solar Cell Based on Lead Acetate Precursor. <b>2015</b> , 7, 23110-6	102
571	Influence of the Synthetic Procedures on the Structural and Optical Properties of Mixed-Halide (Br, I) Perovskite Films. <b>2015</b> , 119, 21304-21313	65
570	Photodecomposition and Morphology Evolution of Organometal Halide Perovskite Solar Cells. <b>2015</b> , 119, 20810-20816	83
569	In-situ synthesis of metal nanoparticle-polymer composites and their application as efficient interfacial materials for both polymer and planar heterojunction perovskite solar cells. <b>2015</b> , 27, 46-52	18
568	Controlling the conduction band offset for highly efficient ZnO nanorods based perovskite solar cell. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 073507	3-4 52
567	A solution-processed bathocuproine cathode interfacial layer for high-performance bromine-iodine perovskite solar cells. <b>2015</b> , 17, 26653-8	89
566	CHNHPbI perovskite single crystals: surface photophysics and their interaction with the environment. <b>2015</b> , 6, 7305-7310	171
565	Perovskite-based solar cells: impact of morphology and device architecture on device performance. <b>2015</b> , 3, 8943-8969	465
564	Ambient Air and Hole Transport Layer Free Synthesis: Towards Low Cost CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Solar Cells. <b>2016</b> , 2016, 1-12	2
563	Humidity versus photo-stability of metal halide perovskite films in a polymer matrix. <b>2016</b> , 18, 21629-39	62
562	Mesoporous PbI <sub>2</sub> Scaffold for High-Performance Planar Heterojunction Perovskite Solar Cells. <b>2016</b> , 6, 1501890	102
561	Inverted Perovskite Solar Cells: Progresses and Perspectives. <b>2016</b> , 6, 1600457	294
560	Iodine Migration and its Effect on Hysteresis in Perovskite Solar Cells. <b>2016</b> , 28, 2446-54	369
559	Humidity controlled crystallization of thin CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> films for high performance perovskite solar cell. <b>2016</b> , 10, 381-387	34
558	Highly Reproducible and Efficient Perovskite Solar Cells with Extraordinary Stability from Robust CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> : Towards Large-Area Devices. <b>2016</b> , 4, 449-457	24

557	Amino-Functionalized Conjugated Polymer as an Efficient Electron Transport Layer for High-Performance Planar-Heterojunction Perovskite Solar Cells. <b>2016</b> , 6, 1501534		247
556	Coordination Chemistry Dictates the Structural Defects in Lead Halide Perovskites. <b>2016</b> , 17, 2795-8		112
555	Transparent Conductive Oxide-Free Graphene-Based Perovskite Solar Cells with over 17% Efficiency. <b>2016</b> , 6, 1501873		161
554	Mechanisms for light induced degradation in MAPbI <sub>3</sub> perovskite thin films and solar cells. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 233905	3-4	154
553	Inverted polymer solar cells with enhanced fill factor by inserting the potassium stearate interfacial modification layer. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 181602	3-4	14
552	Oxygen influencing the photocarriers lifetime of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Cl <sub>x</sub> film grown by two-step interdiffusion method and its photovoltaic performance. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 033904	3-4	23
551	Low resistivity ZnO-GO electron transport layer based CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> solar cells. <b>2016</b> , 6, 065303		21
550	Voltage-Induced Transients in Methylammonium Lead Triiodide Probed by Dynamic Photoluminescence Spectroscopy. <b>2016</b> , 120, 7893-7902		21
549	Coarsening of one-step deposited organolead triiodide perovskite films via Ostwald ripening for high efficiency planar-heterojunction solar cells. <b>2016</b> , 45, 7856-65		46
548	The Effect of Humidity upon the Crystallization Process of Two-Step Spin-Coated Organic-Inorganic Perovskites. <b>2016</b> , 17, 112-8		26
547	Low thermal budget, photonic-cured compact TiO <sub>2</sub> layers for high-efficiency perovskite solar cells. <b>2016</b> , 4, 9685-9690		41
546	Hysteresis, Stability, and Ion Migration in Lead Halide Perovskite Photovoltaics. <b>2016</b> , 7, 2240-5		73
545	High-Performance Perovskite Solar Cells Engineered by an Ammonia Modified Graphene Oxide Interfacial Layer. <b>2016</b> , 8, 14503-12		100
544	Efficiency Enhancement of Perovskite Solar Cells by Pumping Away the Solvent of Precursor Film Before Annealing. <b>2016</b> , 11, 248		9
543	Molecular Origins of Defects in Organohalide Perovskites and Their Influence on Charge Carrier Dynamics. <b>2016</b> , 120, 12392-12402		76
542	Morphology fixing agent for [6,6]-phenyl C <sub>61</sub> -butyric acid methyl ester (PC60BM) in planar-type perovskite solar cells for enhanced stability. <b>2016</b> , 6, 51513-51519		10
541	Highly reproducible perovskite solar cells with excellent CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Cl <sub>x</sub> film morphology fabricated via high precursor concentration. <b>2016</b> , 6, 51279-51285		9
540	Degradation of Co-Evaporated Perovskite Thin Films. <b>2016</b> , 1, 923-929		3

539	In situ investigation of the formation and metastability of formamidinium lead tri-iodide perovskite solar cells. <b>2016</b> , 9, 2372-2382	64
538	Advancements in the stability of perovskite solar cells: degradation mechanisms and improvement approaches. <b>2016</b> , 6, 38079-38091	131
537	p-i-n/n-i-p type planar hybrid structure of highly efficient perovskite solar cells towards improved air stability: synthetic strategies and the role of p-type hole transport layer (HTL) and n-type electron transport layer (ETL) metal oxides. <b>2016</b> , 8, 10528-40	95
536	Induced Crystallization of Perovskites by a Perylene Underlayer for High-Performance Solar Cells. <b>2016</b> , 10, 5479-89	111
535	Large-area, high-quality organic/inorganic hybrid perovskite thin films via a controlled vapor-solid reaction. <b>2016</b> , 4, 9124-9132	39
534	Structural and chemical evolution of methylammonium lead halide perovskites during thermal processing from solution. <b>2016</b> , 9, 2072-2082	153
533	A rapid annealing technique for efficient perovskite solar cells fabricated in air condition under high humidity. <b>2016</b> , 34, 84-90	16
532	Absorption enhancement in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> solar cell using a TiO <sub>2</sub> /MoS <sub>2</sub> nanocomposite electron selective contact. <b>2016</b> , 3, 045022	14
531	High-performance inverted planar heterojunction perovskite solar cells based on a solution-processed CuOx hole transport layer. <b>2016</b> , 8, 10806-13	161
530	Efficient perovskite solar cell fabricated in ambient air using one-step spin-coating. <b>2016</b> , 6, 43299-43303	40
529	Effect of Water Vapor, Temperature, and Rapid Annealing on Formamidinium Lead Triiodide Perovskite Crystallization. <b>2016</b> , 1, 155-161	21
528	Ultrasoother metal halide perovskite thin films via sol-gel processing. <b>2016</b> , 4, 8308-8315	48
527	Film-through large perovskite grains formation via a combination of sequential thermal and solvent treatment. <b>2016</b> , 4, 8554-8561	68
526	Hydrophobic hole-transporting layer induced porous PbI <sub>2</sub> film for stable and efficient perovskite solar cells in 50% humidity. <b>2016</b> , 157, 989-995	14
525	Bromide regulated film formation of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> in low-pressure vapor-assisted deposition for efficient planar-heterojunction perovskite solar cells. <b>2016</b> , 157, 1026-1037	21
524	Influence of the mixed organic cation ratio in lead iodide based perovskite on the performance of solar cells. <b>2016</b> , 18, 27148-27157	61
523	Film Grain-Size Related Long-Term Stability of Inverted Perovskite Solar Cells. <b>2016</b> , 9, 2666-2672	79
522	A perspective on the recent progress in solution-processed methods for highly efficient perovskite solar cells. <b>2016</b> , 17, 650-658	26

521	Effect of polyelectrolyte interlayer on efficiency and stability of p-i-n perovskite solar cells. <b>2016</b> , 139, 190-198	22
520	Ambient air-processed mixed-ion perovskites for high-efficiency solar cells. <b>2016</b> , 4, 16536-16545	44
519	Promoting crystalline grain growth and healing pinholes by water vapor modulated post-annealing for enhancing the efficiency of planar perovskite solar cells. <b>2016</b> , 4, 13458-13467	52
518	Copper Salts Doped Spiro-OMeTAD for High-Performance Perovskite Solar Cells. <b>2016</b> , 6, 1601156	172
517	The interface and its role in carrier transfer/recombination dynamics for the planar perovskite solar cells prepared under fully open air conditions. <b>2016</b> , 16, 1353-1363	15
516	First-Principles Modeling of Organohalide Thin Films and Interfaces. <b>2016</b> , 19-52	4
515	Ionic Conductivity of Organic/Inorganic Perovskites: Relevance for Long-Time and Low Frequency Behavior. <b>2016</b> , 107-135	5
514	Ion Migration in Hybrid Perovskite Solar Cells. <b>2016</b> , 137-162	13
513	Mixed-solvent-vapor annealing of perovskite for photovoltaic device efficiency enhancement. <b>2016</b> , 28, 417-425	90
512	Cooperative Effect of GO and Glucose on PEDOT:PSS for High VOC and Hysteresis-Free Solution-Processed Perovskite Solar Cells. <b>2016</b> , 26, 6985-6994	55
511	Potentials and challenges towards application of perovskite solar cells. <b>2016</b> , 59, 769-778	13
510	High-Quality Perovskite Films Grown with a Fast Solvent-Assisted Molecule Inserting Strategy for Highly Efficient and Stable Solar Cells. <b>2016</b> , 8, 22238-45	16
509	Thermal flow air post-treatment under high relative humidity for efficient and reproducible planar CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /Clx based perovskite solar cells. <b>2016</b> , 48, 1	1
508	Efficient promotion of charge separation and suppression of charge recombination by blending PCBM and its dimer as electron transport layer in inverted perovskite solar cells. <b>2016</b> , 6, 112512-112519	14
507	Interaction of Organic Cation with Water Molecule in Perovskite MAPbI <sub>3</sub> : From Dynamic Orientational Disorder to Hydrogen Bonding. <b>2016</b> , 28, 7385-7393	133
506	Effects of Gas Blowing Condition on Formation of Perovskite Layer on Organic Scaffolds. <b>2016</b> , 45, 822-824	8
505	Strategic improvement of the long-term stability of perovskite materials and perovskite solar cells. <b>2016</b> , 18, 27026-27050	116
504	Advances in Perovskite Solar Cells. <b>2016</b> , 3, 1500324	397



503	Highly Efficient p-i-n Perovskite Solar Cells Utilizing Novel Low-Temperature Solution-Processed Hole Transport Materials with Linear Conjugated Structure. <b>2016</b> , 12, 4902-4908	48
502	Interface engineering in efficient vacuum deposited perovskite solar cells. <b>2016</b> , 37, 396-401	18
501	Highly reproducible and photocurrent hysteresis-less planar perovskite solar cells with a modified solvent annealing method. <b>2016</b> , 136, 210-216	14
500	Dramatically promoted crystallization control of organolead triiodide perovskite film by a homogeneous cap for high efficiency planar-heterojunction solar cells. <b>2016</b> , 4, 12535-12542	37
499	Room-temperature water-vapor annealing for high-performance planar perovskite solar cells. <b>2016</b> , 4, 17267-17273	51
498	Crystal Engineering for Low Defect Density and High Efficiency Hybrid Chemical Vapor Deposition Grown Perovskite Solar Cells. <b>2016</b> , 8, 32805-32814	61
497	Analysis of Sputtering Damage on $I-V$ Curves for Perovskite Solar Cells and Simulation with Reversed Diode Model. <b>2016</b> , 120, 28441-28447	32
496	WO Nanoparticles or Nanorods Incorporating CsCO/PCBM Buffer Bilayer as Carriers Transporting Materials for Perovskite Solar Cells. <b>2016</b> , 11, 464	23
495	Enhanced photovoltaic performance of planar perovskite solar cells fabricated in ambient air by solvent annealing treatment method. <b>2016</b> , 55, 122301	13
494	Enhancing performance and uniformity of $CH_3NH_3PbI_{3-x}Cl_x$ perovskite solar cells by air-heated-oven assisted annealing under various humidities. <b>2016</b> , 6, 21257	24
493	Beyond Bulk Lifetimes: Insights into Lead Halide Perovskite Films from Time-Resolved Photoluminescence. <b>2016</b> , 6,	144
492	D-A- $\pi$ Motif Quinoxaline-Based Sensitizers with High Molar Extinction Coefficient for Quasi-Solid-State Dye-Sensitized Solar Cells. <b>2016</b> , 8, 31016-31024	38
491	Hole-Transporting Materials in Inverted Planar Perovskite Solar Cells. <b>2016</b> , 6, 1600474	197
490	Photoluminescence Enhancement in Formamidinium Lead Iodide Thin Films. <b>2016</b> , 26, 4653-4659	54
489	The control of surface texture for planar $CH_3NH_3PbI_{3-x}Cl_x$ film and its effect on photovoltaic performance. <b>2016</b> , 27, 9384-9390	3
488	Systematic study on the impact of water on the performance and stability of perovskite solar cells. <b>2016</b> , 6, 52448-52458	26
487	Porous $PbI_2$ films for the fabrication of efficient, stable perovskite solar cells via sequential deposition. <b>2016</b> , 4, 10223-10230	45
486	Solution processed perovskite solar cells using highly conductive PEDOT:PSS interfacial layer. <b>2016</b> , 157, 318-325	61

485	Spatial confinement growth of perovskite nanocrystals for ultra-flexible solar cells. <b>2016</b> , 6, 59429-59437	3
484	TiO <sub>2</sub> /ZnO/TiO <sub>2</sub> sandwich multi-layer films as a hole-blocking layer for efficient perovskite solar cells. <b>2016</b> , 40, 806-813	28
483	Fullerene imposed high open-circuit voltage in efficient perovskite based solar cells. <b>2016</b> , 4, 3667-3672	38
482	Ion Migration in Organometal Trihalide Perovskite and Its Impact on Photovoltaic Efficiency and Stability. <b>2016</b> , 49, 286-93	1002
481	Recent progress in electron transport layers for efficient perovskite solar cells. <b>2016</b> , 4, 3970-3990	393
480	Unraveling the hidden function of a stabilizer in a precursor in improving hybrid perovskite film morphology for high efficiency solar cells. <b>2016</b> , 9, 867-872	56
479	Making and Breaking of Lead Halide Perovskites. <b>2016</b> , 49, 330-8	491
478	Novel Surface Passivation Technique for Low-Temperature Solution-Processed Perovskite PV Cells. <b>2016</b> , 8, 4644-50	72
477	Recent progress and challenges of organometal halide perovskite solar cells. <b>2016</b> , 79, 026501	97
476	n-Type Water/Alcohol-Soluble Naphthalene Diimide-Based Conjugated Polymers for High-Performance Polymer Solar Cells. <b>2016</b> , 138, 2004-13	400
475	Solution processed pristine PDPP3T polymer as hole transport layer for efficient perovskite solar cells with slower degradation. <b>2016</b> , 145, 193-199	90
474	Highly efficient perovskite solar cells with precursor composition-dependent morphology. <b>2016</b> , 145, 231-237	25
473	Formation Dynamics of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Following Two-Step Layer Deposition. <b>2016</b> , 7, 96-102	82
472	Organic-inorganic hybrid lead halide perovskites for optoelectronic and electronic applications. <b>2016</b> , 45, 655-89	1049
471	Preheating-assisted deposition of solution-processed perovskite layer for an efficiency-improved inverted planar composite heterojunction solar cell. <b>2016</b> , 6, 30978-30985	22
470	Parameters that control and influence the organo-metal halide perovskite crystallization and morphology. <b>2016</b> , 9, 44-52	44
469	Structure and Growth Control of Organic-Inorganic Halide Perovskites for Optoelectronics: From Polycrystalline Films to Single Crystals. <b>2016</b> , 3, 1500392	152
468	Composition-controlled organometal halide perovskite via CH <sub>3</sub> NH <sub>3</sub> I pressure in a vacuum co-deposition process. <b>2016</b> , 4, 5663-5668	21

467	Thin-film semiconductor perspective of organometal trihalide perovskite materials for high-efficiency solar cells. <b>2016</b> , 101, 1-38	91
466	Reversible Healing Effect of Water Molecules on Fully Crystallized Metal Halide Perovskite Film. <b>2016</b> , 120, 4759-4765	45
465	Humidity-Induced Grain Boundaries in MAPbI <sub>3</sub> Perovskite Films. <b>2016</b> , 120, 6363-6368	83
464	Intense Pulsed Light Sintering of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Solar Cells. <b>2016</b> , 8, 8419-26	46
463	Efficient Planar Perovskite Solar Cells with Reduced Hysteresis and Enhanced Open Circuit Voltage by Using PW12-TiO <sub>2</sub> as Electron Transport Layer. <b>2016</b> , 8, 8520-6	33
462	Thin-Film Deposition and Characterization of a Sn-Deficient Perovskite Derivative Cs <sub>2</sub> SnI <sub>6</sub> . <b>2016</b> , 28, 2315-2322	252
461	Transition Metal-Oxide Free Perovskite Solar Cells Enabled by a New Organic Charge Transport Layer. <b>2016</b> , 8, 8511-9	17
460	Degradation of co-evaporated perovskite thin film in air. <b>2016</b> , 649, 151-155	33
459	Fully Printed Halide Perovskite Light-Emitting Diodes with Silver Nanowire Electrodes. <b>2016</b> , 10, 1795-801	219
458	Recent Advances in the Inverted Planar Structure of Perovskite Solar Cells. <b>2016</b> , 49, 155-65	472
457	Crystallization of a perovskite film for higher performance solar cells by controlling water concentration in methyl ammonium iodide precursor solution. <b>2016</b> , 8, 2693-703	81
456	Interfacial Degradation of Planar Lead Halide Perovskite Solar Cells. <b>2016</b> , 10, 218-24	357
455	Organometal halide perovskite thin films and solar cells by vapor deposition. <b>2016</b> , 4, 6693-6713	177
454	Relationships between Lead Halide Perovskite Thin-Film Fabrication, Morphology, and Performance in Solar Cells. <b>2016</b> , 138, 463-70	192
453	Effect of relative humidity on crystal growth, device performance and hysteresis in planar heterojunction perovskite solar cells. <b>2016</b> , 8, 6300-7	92
452	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. <b>2016</b> , 11, 75-81	1614
451	Planar heterojunction organometal halide perovskite solar cells: roles of interfacial layers. <b>2016</b> , 9, 12-30	396
450	Organometal halide perovskite solar cells: degradation and stability. <b>2016</b> , 9, 323-356	1188

449	Crystallization process of perovskite modified by adding lead acetate in precursor solution for better morphology and higher device efficiency. <b>2017</b> , 43, 189-195	12
448	Keggin-Type PMoV as a P-type Dopant for Enhancing the Efficiency and Reproducibility of Perovskite Solar Cells. <b>2017</b> , 9, 2378-2386	26
447	Electronic and Morphological Inhomogeneities in Pristine and Deteriorated Perovskite Photovoltaic Films. <b>2017</b> , 17, 1796-1801	22
446	Formation criteria of high efficiency perovskite solar cells under ambient conditions. <b>2017</b> , 1, 540-547	48
445	CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> converted from reactive magnetron sputtered PbO for large area perovskite solar cells. <b>2017</b> , 163, 250-254	12
444	High performance perovskite solar cells fabricated under high relative humidity conditions. <b>2017</b> , 163, 38-42	24
443	Effects of ambient humidity on the optimum annealing time of mixed-halide Perovskite solar cells. <b>2017</b> , 28, 114004	15
442	Facile Face-Down Annealing Triggered Remarkable Texture Development in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Films for High-Performance Perovskite Solar Cells. <b>2017</b> , 9, 6104-6113	52
441	Advances in hole transport materials engineering for stable and efficient perovskite solar cells. <b>2017</b> , 34, 271-305	278
440	Towards high efficiency thin film solar cells. <b>2017</b> , 87, 246-291	67
439	The synergistic effect of H <sub>2</sub> O and DMF towards stable and 20% efficiency inverted perovskite solar cells. <b>2017</b> , 10, 808-817	315
438	Air-Induced High-Quality CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Thin Film for Efficient Planar Heterojunction Perovskite Solar Cells. <b>2017</b> , 121, 6575-6580	42
437	Synergy of ammonium chloride and moisture on perovskite crystallization for efficient printable mesoscopic solar cells. <b>2017</b> , 8, 14555	234
436	Polymer strategies in perovskite solar cells. <b>2017</b> , 55, 549-568	16
435	Optimized organometal halide perovskite solar cell fabrication through control of nanoparticle crystal patterning. <b>2017</b> , 5, 2352-2359	11
434	Unveiling a Key Intermediate in Solvent Vapor Postannealing to Enlarge Crystalline Domains of Organometal Halide Perovskite Films. <b>2017</b> , 27, 1604944	86
433	Morphology Evolution and Degradation of CsPbBr <sub>3</sub> Nanocrystals under Blue Light-Emitting Diode Illumination. <b>2017</b> , 9, 7249-7258	226
432	Tuning the work function of indium-tin-oxide electrodes for low-temperature-processed, titanium-oxide-free perovskite solar cells. <b>2017</b> , 44, 120-125	21

431	CHNHPbI <sub>3</sub> under Different Fabrication Strategies: Electronic Structures and Energy-Level Alignment with an Organic Hole Transport Material. <b>2017</b> , 9, 7859-7865	17
430	A facile one-pot synthesis of hyper-branched carbazole-based polymer as a hole-transporting material for perovskite solar cells. <b>2017</b> , 5, 6613-6621	34
429	Tuning Magneto-photocurrent between Positive and Negative Polarities in Perovskite Solar Cells. <b>2017</b> , 121, 9537-9542	7
428	Recent progress in stabilizing hybrid perovskites for solar cell applications. <b>2017</b> , 355, 98-133	76
427	Annealing Induced Re-crystallization in CHNHPbI <sub>3</sub> for High Performance Perovskite Solar Cells. <b>2017</b> , 7, 46724	44
426	Additive engineering for highly efficient organic-inorganic halide perovskite solar cells: recent advances and perspectives. <b>2017</b> , 5, 12602-12652	249
425	Synthesis of a nanostructured rutile TiO <sub>2</sub> electron transporting layer via an etching process for efficient perovskite solar cells: impact of the structural and crystalline properties of TiO <sub>2</sub> . <b>2017</b> , 5, 12340-12353 <sup>30</sup>	
424	Photon-generated carriers excite superoxide species inducing long-term photoluminescence enhancement of MAPbI <sub>3</sub> perovskite single crystals. <b>2017</b> , 5, 12048-12053	27
423	Radiative Thermal Annealing/in Situ X-ray Diffraction Study of Methylammonium Lead Triiodide: Effect of Antisolvent, Humidity, Annealing Temperature Profile, and Film Substrates. <b>2017</b> , 29, 5931-5941	26
422	Cathode modification in planar hetero-junction perovskite solar cells through a small-molecule zwitterionic carboxylate. <b>2017</b> , 48, 204-210	20
421	Magnetic Field-Assisted Perovskite Film Preparation for Enhanced Performance of Solar Cells. <b>2017</b> , 9, 21756-21762	20
420	High performance carbon-based printed perovskite solar cells with humidity assisted thermal treatment. <b>2017</b> , 5, 12060-12067	74
419	Hybrid Perovskites: Effective Crystal Growth for Optoelectronic Applications. <b>2017</b> , 7, 1602596	54
418	Nonradiative Losses in Metal Halide Perovskites. <b>2017</b> , 2, 1515-1525	234
417	Aqueous self-assembled perovskite microfibers for sensitive photodetectors. <b>2017</b> , 48, 106-111	12
416	Interface design for high-efficiency non-fullerene polymer solar cells. <b>2017</b> , 10, 1784-1791	149
415	Structure formation and evolution in semiconductor films for perovskite and organic photovoltaics. <b>2017</b> , 32, 1798-1824	14
414	Effective hot-air annealing for improving the performance of perovskite solar cells. <b>2017</b> , 146, 359-367	16

413	Mechanical signatures of degradation of the photovoltaic perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> upon water vapor exposure. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 121903	3-4	32
412	Improving the stability of the perovskite solar cells by V <sub>2</sub> O <sub>5</sub> modified transport layer film. <b>2017</b> , 7, 18456-18465	4	54
411	Enhanced optoelectronic quality of perovskite films with excess CH <sub>3</sub> NH <sub>3</sub> I for high-efficiency solar cells in ambient air. <b>2017</b> , 28, 205401		15
410	Solvent vapor annealing of oriented PbI <sub>2</sub> films for improved crystallization of perovskite films in the air. <b>2017</b> , 166, 167-175		16
409	A transparent poly(3,4-ethylenedioxyethiophene):poly(styrene sulfonate) cathode for low temperature processed, metal-oxide free perovskite solar cells. <b>2017</b> , 5, 6974-6980		54
408	Moisture-driven phase transition for improved perovskite solar cells with reduced trap-state density. <b>2017</b> , 10, 1413-1422		12
407	Transition metal oxides as hole-transporting materials in organic semiconductor and hybrid perovskite based solar cells. <b>2017</b> , 60, 472-489		34
406	Efficient and Air-Stable Planar Perovskite Solar Cells Formed on Graphene-Oxide-Modified PEDOT:PSS Hole Transport Layer. <b>2017</b> , 9, 39		97
405	Ternary solvent for CH <sub>3</sub> NH <sub>3</sub> PbI perovskite films with uniform domain size. <b>2017</b> , 19, 1143-1150		26
404	The Influence of Morphology and PbI on the Intrinsic Trap State Distribution in Perovskite Films Determined by Using Temperature-Dependent Fluorescence Spectroscopy. <b>2017</b> , 18, 310-317		7
403	Sequential Introduction of Cations Deriving Large-Grain Cs FA PbI Thin Film for Planar Hybrid Solar Cells: Insight into Phase-Segregation and Thermal-Healing Behavior. <b>2017</b> , 13, 1603225		56
402	High Efficiency Inverted Planar Perovskite Solar Cells with Solution-Processed NiO Hole Contact. <b>2017</b> , 9, 2439-2448		126
401	Monitoring Thermal Annealing of Perovskite Solar Cells with In Situ Photoluminescence. <b>2017</b> , 7, 1601822		47
400	Hybrid Perovskite Photovoltaic Devices: Properties, Architecture, and Fabrication Methods. <b>2017</b> , 5, 373-401		21
399	Multinuclear Magnetic Resonance Tracking of Hydro, Thermal, and Hydrothermal Decomposition of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <b>2017</b> , 121, 1013-1024		63
398	Improved performance of pure formamidinium lead iodide perovskite light-emitting diodes by moisture treatment. <b>2017</b> , 5, 11121-11127		7
397	Efficient and stable perovskite solar cells based on high-quality CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Cl <sub>x</sub> films modified by V <sub>2</sub> O <sub>x</sub> additives. <b>2017</b> , 5, 24282-24291		21
396	Effects of water on the forward and backward conversions of lead(II) iodide to methylammonium lead perovskite. <b>2017</b> , 5, 23815-23821		13

395	High-Resolution Study of TiO <sub>2</sub> Contact Layer Thickness on the Performance of Over 800 Perovskite Solar Cells. <b>2017</b> , 2, 2356-2361	9
394	Crystallization Dependent Stability of Perovskite Solar Cells With Different Hole Transporting Layers. <b>2017</b> , 1, 1700141	7
393	Impact of H <sub>2</sub> O on organic/inorganic hybrid perovskite solar cells. <b>2017</b> , 10, 2284-2311	248
392	Constructing Efficient and Stable Perovskite Solar Cells via Interconnecting Perovskite Grains. <b>2017</b> , 9, 35200-35208	89
391	Nonconjugated Polymer Poly(vinylpyrrolidone) as an Efficient Interlayer Promoting Electron Transport for Perovskite Solar Cells. <b>2017</b> , 9, 32957-32964	54
390	Enhanced Moisture Stability of Cesium-Containing Compositional Perovskites by a Feasible Interfacial Engineering. <b>2017</b> , 4, 1700598	49
389	18% High-Efficiency Air-Processed Perovskite Solar Cells Made in a Humid Atmosphere of 70% RH. <b>2017</b> , 1, 1700097	75
388	DMF as an Additive in a Two-Step Spin-Coating Method for 20% Conversion Efficiency in Perovskite Solar Cells. <b>2017</b> , 9, 26937-26947	57
387	Improved efficiency and short-term stability of the planar heterojunction perovskite solar cells with a polyelectrolyte layer. <b>2017</b> , 214, 1700281	3
386	Efficient planar perovskite solar cells based on high-quality perovskite films with smooth surface and large crystal grains fabricated in ambient air conditions. <b>2017</b> , 155, 942-950	29
385	In situ investigation of halide incorporation into perovskite solar cells. <b>2017</b> , 7, 575-582	6
384	Updating the road map to metal-halide perovskites for photovoltaics. <b>2017</b> , 5, 17135-17150	23
383	High-Performance Rigid and Flexible Perovskite Solar Cells with Low-Temperature Solution-Processable Binary Metal Oxide Hole-Transporting Materials. <b>2017</b> , 1, 1700058	54
382	Enhanced Thermochemical Stability of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Films on Zinc Oxides via New Precursors and Surface Engineering. <b>2017</b> , 9, 26045-26051	22
381	120 mm single-crystalline perovskite and wafers: towards viable applications. <b>2017</b> , 60, 1367-1376	86
380	Fabrication of high-performance and low-hysteresis lead halide perovskite solar cells by utilizing a versatile alcohol-soluble bispyridinium salt as an efficient cathode modifier. <b>2017</b> , 5, 17943-17953	23
379	Rational Solvent Annealing for Perovskite Film Formation in Air Condition (July 2017). <b>2017</b> , 7, 1338-1341	1
378	Improved Morphology and Efficiency of n-i-p Planar Perovskite Solar Cells by Processing with Glycol Ether Additives. <b>2017</b> , 2, 1960-1968	39

377	Interface Engineering of Perovskite Solar Cells with Air Plasma Treatment for Improved Performance. <b>2017</b> , 18, 2939-2946	15
376	Interfaces in Perovskite Solar Cells. <b>2017</b> , 7, 1700623	225
375	Electropolymerization Porous Aromatic Framework Film As a Hole-Transport Layer for Inverted Perovskite Solar Cells with Superior Stability. <b>2017</b> , 9, 43688-43695	14
374	Capturing the Sun: A Review of the Challenges and Perspectives of Perovskite Solar Cells. <b>2017</b> , 7, 1700264	235
373	Moisture annealing effect on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> films deposited by solvent engineering method. <b>2017</b> , 636, 664-670	8
372	The Role of Connectivity on Electronic Properties of Lead Iodide Perovskite-Derived Compounds. <b>2017</b> , 56, 8408-8414	59
371	Efficient Indium-Doped TiO <sub>x</sub> Electron Transport Layers for High-Performance Perovskite Solar Cells and Perovskite-Silicon Tandems. <b>2017</b> , 7, 1601768	145
370	Enhanced electron extraction using SnO <sub>2</sub> for high-efficiency planar-structure HC(NH <sub>2</sub> ) <sub>2</sub> PbI <sub>3</sub> -based perovskite solar cells. <b>2017</b> , 2,	1231
369	Effect of guanidinium on mesoscopic perovskite solar cells. <b>2017</b> , 5, 73-78	119
368	Interplay between nucleation and crystal growth during the formation of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> thin films and their application in solar cells. <b>2017</b> , 159, 583-589	46
367	Mesoscopic CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells using TiO <sub>2</sub> inverse opal electron-conducting scaffolds. <b>2017</b> , 5, 1972-1977	31
366	Transamidation of dimethylformamide during alkylammonium lead triiodide film formation for perovskite solar cells. <b>2017</b> , 32, 45-55	31
365	Low temperature processed ZnO thin film as electron transport layer for efficient perovskite solar cells. <b>2017</b> , 159, 251-264	82
364	Efficient planar heterojunction perovskite solar cells with weak hysteresis fabricated via bar coating. <b>2017</b> , 159, 412-417	37
363	Fullerene Derivatives for the Applications as Acceptor and Cathode Buffer Layer Materials for Organic and Perovskite Solar Cells. <b>2017</b> , 7, 1601251	126
362	Solvent-induced textured structure and improved crystallinity for high performance perovskite solar cells. <b>2017</b> , 7, 2150	20
361	Effects of Annealing Conditions on Mixed Lead Halide Perovskite Solar Cells and Their Thermal Stability Investigation. <b>2017</b> , 10,	23
360	Overcoming the Intrinsic Difference between Hydrophilic CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> and Hydrophobic C Thin Films to Improve the Photovoltaic Performance. <b>2017</b> , 7,	6



359	Hole-Transporting Materials for Printable Perovskite Solar Cells. <b>2017</b> , 10,	73
358	N-Type Self-Doped Water/Alcohol-Soluble Conjugated Polymers with Tailored Energy Levels for High-Performance Polymer Solar Cells. <b>2018</b> , 51, 2195-2202	28
357	The Impact of Atmosphere on the Local Luminescence Properties of Metal Halide Perovskite Grains. <b>2018</b> , 30, e1706208	116
356	Graphene Oxide for DSSC, OPV and Perovskite Stability. <b>2018</b> , 503-531	2
355	Effects of organic solvents for the phenyl-C61-butyric acid methyl ester layer on the performance of inverted perovskite solar cells. <b>2018</b> , 56, 247-253	4
354	Fast Postmoisture Treatment of Luminescent Perovskite Films for Efficient Light-Emitting Diodes. <b>2018</b> , 14, e1703410	28
353	Strategies for high performance perovskite/crystalline silicon four-terminal tandem solar cells. <b>2018</b> , 179, 36-44	23
352	Organometal Halide Perovskites for Next Generation Fully Printed and Flexible LEDs and Displays. <b>2018</b> , 199-214	
351	Evolution of organometal halide solar cells. <b>2018</b> , 35, 74-107	22
350	Highly efficient regular polymer solar cells based on Li-TFSI doping ZnO as electron-transporting interlayers. <b>2018</b> , 169, 49-54	8
349	A Simple Perylene Derivative as a Solution-Processable Cathode Interlayer for Perovskite Solar Cells with Enhanced Efficiency and Stability. <b>2018</b> , 10, 15933-15942	18
348	Highly Stable Hybrid Perovskite Solar Cells Modified with Polyethylenimine via Ionic Bonding. <b>2018</b> , 4, 649-655	17
347	Improving the Performance of Perovskite Solar Cells Through Solvent Vapor Annealing-based Morphology Control of the Hole-Transport Layer. <b>2018</b> , 6, 1283-1289	9
346	Low Work Function Surface Modifiers for Solution-Processed Electronics: A Review. <b>2018</b> , 5, 1701404	35
345	In Situ Monitoring the Uptake of Moisture into Hybrid Perovskite Thin Films. <b>2018</b> , 9, 2015-2021	41
344	Enhancing Photovoltaic Performance of Inverted Planar Perovskite Solar Cells by Cobalt-Doped Nickel Oxide Hole Transport Layer. <b>2018</b> , 10, 14153-14159	54
343	Photovoltaic performance and stability of fullerene/ cerium oxide double electron transport layer superior to single one in p-i-n perovskite solar cells. <b>2018</b> , 389, 13-19	12
342	Fabricating High-Efficient Blade-Coated Perovskite Solar Cells under Ambient Condition Using Lead Acetate Trihydrate. <b>2018</b> , 2, 1700214	25

341	Improved Stability of Organometal Halide Perovskite Films and Solar Cells toward Humidity via Surface Passivation with Oleic Acid. <b>2018</b> , 1, 387-392	47
340	The influence of perovskite precursor composition on the morphology and photovoltaic performance of mixed halide MAPbI <sub>3</sub> -xCl <sub>x</sub> solar cells. <b>2018</b> , 163, 215-223	29
339	High-Efficiency Fullerene Solar Cells Enabled by a Spontaneously Formed Mesostructured CuSCN-Nanowire Heterointerface. <b>2018</b> , 5, 1700980	15
338	Electrodeposition of organic/inorganic tri-halide perovskites solar cell. <b>2018</b> , 378, 717-731	26
337	Nanoporous p-type NiOx electrode for p-i-n inverted perovskite solar cell toward air stability. <b>2018</b> , 21, 483-500	75
336	The stable perovskite solar cell prepared by rapidly annealing perovskite film with water additive in ambient air. <b>2018</b> , 176, 280-287	20
335	Micron-sized columnar grains of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> grown by solvent-vapor assisted low-temperature (75 °C) solid-state reaction: The role of non-coordinating solvent-vapor. <b>2018</b> , 437, 82-91	7
334	High Quality Perovskite Crystals for Efficient Film Photodetectors Induced by Hydrolytic Insulating Oxide Substrates. <b>2018</b> , 28, 1705220	29
333	Perovskite-based solar cells with inorganic inverted hybrid planar heterojunction structure. <b>2018</b> , 8, 015109	15
332	A Lewis Base-Assisted Passivation Strategy Towards Highly Efficient and Stable Perovskite Solar Cells. <b>2018</b> , 2, 1800055	63
331	Greener, Nonhalogenated Solvent Systems for Highly Efficient Perovskite Solar Cells. <b>2018</b> , 8, 1800177	80
330	Secondary crystal growth for efficient planar perovskite solar cells in ambient atmosphere. <b>2018</b> , 58, 119-125	3
329	Metal Oxide CrOx as a Promising Bilayer Electron Transport Material for Enhancing the Performance Stability of Planar Perovskite Solar Cells. <b>2018</b> , 2, 1700245	10
328	Micropatterned 2D Hybrid Perovskite Thin Films with Enhanced Photoluminescence Lifetimes. <b>2018</b> , 10, 12878-12885	28
327	Scalable fabrication of perovskite solar cells. <b>2018</b> , 3,	532
326	A New Method for Fitting Current-Voltage Curves of Planar Heterojunction Perovskite Solar Cells. <b>2018</b> , 10, 5	66
325	Stability of Molecular Devices: Halide Perovskite Solar Cells. <b>2018</b> , 477-531	1
324	Perovskite solar cells: Materials, configurations and stability. <b>2018</b> , 82, 2471-2489	73

323	Stabilizing the Efficiency Beyond 20% with a Mixed Cation Perovskite Solar Cell Fabricated in Ambient Air under Controlled Humidity. <b>2018</b> , 8, 1700677	334
322	Fullerene-Based Materials for Photovoltaic Applications: Toward Efficient, Hysteresis-Free, and Stable Perovskite Solar Cells. <b>2018</b> , 4, 1700435	74
321	Influence of water intercalation and hydration on chemical decomposition and ion transport in methylammonium lead halide perovskites. <b>2018</b> , 6, 1067-1074	64
320	A strategy toward air-stable and high-performance ZnO-based perovskite solar cells fabricated under ambient conditions. <b>2018</b> , 336, 732-740	27
319	Flexible Perovskite Solar Cells onto Plastic Substrate Exceeding 13% Efficiency Owing to the Optimization of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /Clx Film via H <sub>2</sub> O Additive. <b>2018</b> , 6, 1083-1090	15
318	Pinhole-free mixed perovskite film for bending durable mixed perovskite solar cells. <b>2018</b> , 175, 111-117	25
317	One-step implementation of plasmon enhancement and solvent annealing effects for air-processed high-efficiency perovskite solar cells. <b>2018</b> , 6, 24036-24044	15
316	Fabrication techniques and morphological analysis of perovskite absorber layer for high-efficiency perovskite solar cell: A review. <b>2018</b> , 98, 469-488	25
315	A Method for the Preparation of Highly Oriented MAPbI <sub>3</sub> Crystallites for High-Efficiency Perovskite Solar Cells to Achieve an 86% Fill Factor. <b>2018</b> , 12, 10355-10364	88
314	Improving Electron Extraction Ability and Device Stability of Perovskite Solar Cells Using a Compatible PCBM/AZO Electron Transporting Bilayer. <b>2018</b> , 8,	23
313	Initial photochemical stability in perovskite solar cells based on the Cu electrode and the appropriate charge transport layers. <b>2018</b> , 246, 101-107	16
312	Studies of Graphdiyne-ZnO Nanocomposite Material and Application in Polymer Solar Cells. <b>2018</b> , 2, 1800211	12
311	General Post-annealing Method Enables High-Efficiency Two-Dimensional Perovskite Solar Cells. <b>2018</b> , 10, 33187-33197	52
310	Sensitivity-Enhanced <sup>207</sup> Pb Solid-State NMR Spectroscopy for the Rapid, Non-Destructive Characterization of Organolead Halide Perovskites. <b>2018</b> , 30, 7005-7015	31
309	Effect of Water, Oxygen, and Air Exposure on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /Clx Perovskite Surface Electronic Properties. <b>2018</b> , 4, 1800307	30
308	Organic/Inorganic Hybrid Perovskites for Solar Energy Conversion. <b>2018</b> , 95-117	
307	Effects of mixed solvent on morphology of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> absorption layers and photovoltaic performance of perovskite solar cells. <b>2018</b> , 29, 18868-18877	1
306	Metal halide perovskites: stability and sensing-ability. <b>2018</b> , 6, 10121-10137	82

305	Morphology Control of MAPbI <sub>3</sub> Perovskite Thin Film as An Active Layer of Solar Cells. <b>2018</b> , 395, 012010	5
304	Unraveling the Passivation Process of PbI <sub>2</sub> to Enhance the Efficiency of Planar Perovskite Solar Cells. <b>2018</b> , 122, 21269-21276	62
303	Enhancing the open circuit voltage of PEDOT:PSS-PC61BM based inverted planar mixed halide perovskite solar cells from 0.93 to 1.05 V by simply oxidizing PC61BM. <b>2018</b> , 59, 260-265	12
302	Improving the Quality of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Films via Chlorobenzene Vapor Annealing. <b>2018</b> , 215, 1700959	9
301	A 1300 mm Ultrahigh-Performance Digital Imaging Assembly using High-Quality Perovskite Single Crystals. <b>2018</b> , 30, e1707314	156
300	Stable Formamidinium-Based Perovskite Solar Cells via In Situ Grain Encapsulation. <b>2018</b> , 8, 1800232	59
299	Alcohol based vapor annealing of a poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) layer for performance improvement of inverted perovskite solar cells. <b>2018</b> , 10, 11043-11051	17
298	An Overview of Hybrid Organic/Inorganic Metal Halide Perovskite Solar Cells. <b>2018</b> , 233-254	6
297	Elucidating the Origins of Subgap Tail States and Open-Circuit Voltage in Methylammonium Lead Triiodide Perovskite Solar Cells. <b>2018</b> , 28, 1801808	58
296	Ionic liquid modified SnO <sub>2</sub> nanocrystals as a robust electron transporting layer for efficient planar perovskite solar cells. <b>2018</b> , 6, 22086-22095	47
295	Semiconducting Metal Oxides for High Performance Perovskite Solar Cells. <b>2018</b> , 241-265	3
294	Stability of Perovskites at the Surface Analytic Level. <b>2018</b> , 9, 4657-4666	13
293	Dew point temperature as an invariant replacement for relative humidity for advanced perovskite solar cell fabrication systems. <b>2018</b> , 6, 20695-20701	9
292	Efficient planar CsPbBr <sub>3</sub> perovskite solar cells by dual-source vacuum evaporation. <b>2018</b> , 187, 1-8	107
291	All that glitters is not gold: Recent progress of alternative counter electrodes for perovskite solar cells. <b>2018</b> , 52, 211-238	57
290	In situ synthesis and macroscale alignment of CsPbBr perovskite nanorods in a polymer matrix. <b>2018</b> , 10, 15436-15441	56
289	Zinc as a New Dopant for NiO <sub>x</sub> -Based Planar Perovskite Solar Cells with Stable Efficiency near 20%. <b>2018</b> , 1, 3947-3954	62
288	Influence of Hot Spot Heating on Stability of Large Size Perovskite Solar Module with a Power Conversion Efficiency of ~14%. <b>2018</b> , 1, 3565-3570	9

287	A dopant-free polymer as hole-transporting material for highly efficient and stable perovskite solar cells. <b>2018</b> , 26, 994-1002	5
286	The Arcane Magic of High-Performance Solar Cells. <b>2018</b> , 2, 1211-1213	
285	CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> and HC(NH <sub>3</sub> ) <sup>+</sup> PbI <sub>3</sub> Powders Synthesized from Low-Grade PbI <sub>2</sub> : Single Precursor for High-Efficiency Perovskite Solar Cells. <b>2018</b> , 11, 1813-1823	41
284	Pressure dependence of excited-state charge-carrier dynamics in organolead tribromide perovskites. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 191903	3-4 13
283	A simple method for the prediction of the orientation of H <sub>2</sub> O molecules in ionic crystals. <b>2018</b> , 51, 1116-1124	7
282	Bulk Heterojunction-Assisted Grain Growth for Controllable and Highly Crystalline Perovskite Films. <b>2018</b> , 10, 31366-31373	11
281	Defects engineering for high-performance perovskite solar cells. <b>2018</b> , 2,	207
280	High-performance metal oxide-free inverted perovskite solar cells using poly(bis(4-phenyl)(2,4,6-trimethylphenyl)amine) as the hole transport layer. <b>2018</b> , 6, 6975-6981	42
279	Solvent-controlled growth of inorganic perovskite films in dry environment for efficient and stable solar cells. <b>2018</b> , 9, 2225	427
278	A review on morphology engineering for highly efficient and stable hybrid perovskite solar cells. <b>2018</b> , 6, 12842-12875	115
277	The efficient and non-hysteresis inverted non-fullerenes/CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> planar solar cells. <b>2019</b> , 189, 307-313	10
276	Tunable thiocyanate-doped perovskite microstructure via water-ethanol additives for stable solar cells at ambient conditions. <b>2019</b> , 200, 110029	10
275	Recent Progress in High-efficiency Planar-structure Perovskite Solar Cells. <b>2019</b> , 2, 93-106	29
274	Synergistic effects of multiple functional ionic liquid-treated PEDOT:PSS and less-ion-defects S-acetylthiocholine chloride-passivated perovskite surface enabling stable and hysteresis-free inverted perovskite solar cells with conversion efficiency over 20%. <b>2019</b> , 63, 103866	38
273	Crystalline Clear or Not: Beneficial and Harmful Effects of Water in Perovskite Solar Cells. <b>2019</b> , 20, 2587-2599	19
272	Rare earth ions doped NiO hole transport layer for efficient and stable inverted perovskite solar cells. <b>2019</b> , 444, 227267	22
271	Role of Moisture in the Preparation of Efficient Planar Perovskite Solar Cells. <b>2019</b> , 7, 17691-17696	10
270	Controlling Homogenous Spherulitic Crystallization for High-Efficiency Planar Perovskite Solar Cells Fabricated under Ambient High-Humidity Conditions. <b>2019</b> , 15, e1904422	21

- 269 Defect Passivation in Hybrid Perovskite Solar Cells by Tailoring the Electron Density Distribution in Passivation Molecules. **2019**, 11, 44233-44240 40
- 268 Accelerating the Screening of Perovskite Compositions for Photovoltaic Applications through High-Throughput Inkjet Printing. **2019**, 29, 1905487 23
- 267 Engineering Green-to-Blue Emitting CsPbBr<sub>3</sub> Quantum-Dot Films with Efficient Ligand Passivation. **2019**, 4, 2731-2738 17
- 266 Solution-Processable All-Small-Molecules for High-Performance Nonfullerene Organic Solar Cells with High Crystallinity Acceptor. **2019**, 123, 28021-28026 9
- 265 High-Quality Ruddlesden-Popper Perovskite Films Based on In Situ Formed Organic Spacer Cations. **2019**, 31, e1904243 27
- 264 Sulfur-fused perylene diimide electron transport layers allow >400 h operational lifetime of methylammonium lead iodide photovoltaics. **2019**, 7, 11126-11133 6
- 263 Novel approaches and scalability prospects of copper based hole transporting materials for planar perovskite solar cells. **2019**, 7, 13680-13708 25
- 262 High-Efficiency and Stable Perovskite Solar Cells Prepared Using Chlorobenzene/Acetonitrile Antisolvent. **2019**, 11, 34989-34996 23
- 261 Compositional and Morphological Changes in Water-Induced Early-Stage Degradation in Lead Halide Perovskites. **2019**, 9, 535 12
- 260 Ultrasonically sprayed-on perovskite solar cells-effects of organic cation on defect formation of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> films. **2019**, 19, 1427-1435 2
- 259 Enhanced efficiency in perovskite solar cells by eliminating the electron contact barrier between the metal electrode and electron transport layer. **2019**, 7, 1349-1355 24
- 258 Improving the efficiency of degenerated perovskite solar cells by a simple freeze treatment. **2019**, 93, 260-265 2
- 257 Improving the light harvesting and colour range of methyl ammonium lead tri-bromide (MAPbBr<sub>3</sub>) perovskite solar cells through co-sensitisation with organic dyes. **2018**, 55, 35-38 11
- 256 A Dual-Retarded Reaction Processed Mixed-Cation Perovskite Layer for High-Efficiency Solar Cells. **2019**, 29, 1807420 24
- 255 Organic Monomolecular Layers Enable Energy-Level Matching for Efficient Hole Transporting Layer Free Inverted Perovskite Solar Cells. **2019**, 13, 1625-1634 27
- 254 Porous and Intercrossed PbI<sub>2</sub>-CsI Nanorod Scaffold for Inverted Planar FA-Cs Mixed-Cation Perovskite Solar Cells. **2019**, 11, 6126-6135 20
- 253 Realizing a highly luminescent perovskite thin film by controlling the grain size and crystallinity through solvent vapour annealing. **2019**, 11, 5861-5867 16
- 252 Solution-processed bathocuproine cathode buffer layer towards efficient planar heterojunction perovskite solar cells. **2019**, 34, 075023 4

251	Probing Facet-Dependent Surface Defects in MAPbI <sub>3</sub> Perovskite Single Crystals. <b>2019</b> , 123, 14144-14151	43
250	Amphiphilic Fullerenes Employed to Improve the Quality of Perovskite Films and the Stability of Perovskite Solar Cells. <b>2019</b> , 11, 24782-24788	43
249	In Situ 2D Perovskite Formation and the Impact of the 2D/3D Structures on Performance and Stability of Perovskite Solar Cells. <b>2019</b> , 3, 1900199	19
248	Effects of precursor composition on morphology and microstructure of hybrid organic/inorganic perovskite solar cells. <b>2019</b> , 54, 12758-12766	1
247	Multiple-engineering controlled growth of tunable-bandgap perovskite nanowires for high performance photodetectors.. <b>2019</b> , 9, 19772-19779	4
246	Role of Water in Suppressing Recombination Pathways in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells. <b>2019</b> , 11, 25474-25482	
245	Polarized Ferroelectric Polymers for High-Performance Perovskite Solar Cells. <b>2019</b> , 31, e1902222	64
244	Post-treatment of Perovskite Films toward Efficient Solar Cells via Mixed Solvent Annealing. <b>2019</b> , 2, 4954-4963	14
243	Stabilizer-assisted growth of formamminium-based perovskites for highly efficient and stable planar solar cells with over 22% efficiency. <b>2019</b> , 63, 103835	38
242	Room-Temperature Sputtered SnO as Robust Electron Transport Layer for Air-Stable and Efficient Perovskite Solar Cells on Rigid and Flexible Substrates. <b>2019</b> , 9, 6963	41
241	Progress in air-processed perovskite solar cells: from crystallization to photovoltaic performance. <b>2019</b> , 6, 1611-1624	61
240	Properties of Excitons and Photogenerated Charge Carriers in Metal Halide Perovskites. <b>2019</b> , 31, e1806671	85
239	An Analytical Approach to CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells Based on Different Hole Transport Materials. <b>2019</b> , 216, 1900087	3
238	Achieving efficient inverted planar perovskite solar cells with nondoped PTAA as a hole transport layer. <b>2019</b> , 71, 106-112	57
237	Improvement of perovskite crystallinity by omnidirectional heat transfer radiative thermal annealing.. <b>2019</b> , 9, 14868-14875	4
236	Improving Two-Step Prepared CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells by Co-Doping Potassium Halide and Water in PbI <sub>2</sub> Layer. <b>2019</b> , 9,	8
235	Liquid Crystal Molecule as Binding Agent Enables Superior Stable Perovskite Solar Cells with High Fill Factor. <b>2019</b> , 3, 1900125	5
234	Steering the crystallization of perovskites for high-performance solar cells in ambient air. <b>2019</b> , 7, 12166-12175	16

233	The effect of water in Carbon-Perovskite Solar Cells with optimized alumina spacer. <b>2019</b> , 197, 76-83	16
232	Preparation of high quality perovskite thin film in ambient air using ethylacetate as anti-solvent. <b>2019</b> , 274, 199-206	7
231	Fabrication of Efficient and Stable Perovskite Solar Cells in High-Humidity Environment through Trace-Doping of Large-Sized Cations. <b>2019</b> , 12, 2385-2392	9
230	Room temperature solution-processed Fe doped NiOx as a novel hole transport layer for high efficient perovskite solar cells. <b>2019</b> , 481, 588-596	29
229	Accelerated hole-extraction in carbon-electrode based planar perovskite solar cells by moisture-assisted post-annealing. <i>Applied Physics Letters</i> , <b>2019</b> , 114, 103503	3-4 29
228	Dual effect of humidity on cesium lead bromide: enhancement and degradation of perovskite films. <b>2019</b> , 7, 12292-12302	46
227	Resolving the detrimental interface in co-evaporated MAPbI3 perovskite solar cells by hybrid growth method. <b>2019</b> , 69, 329-335	6
226	Study on the defect density of states in light soaking effect enhanced performance of perovskite solar cells. <b>2019</b> , 52, 265302	14
225	Photonics and optoelectronics using nano-structured hybrid perovskite media and their optical cavities. <b>2019</b> , 795, 1-51	262
224	Tailoring vertical phase distribution of quasi-two-dimensional perovskite films via surface modification of hole-transporting layer. <b>2019</b> , 10, 878	76
223	A Review of Perovskites Solar Cell Stability. <b>2019</b> , 29, 1808843	554
222	Highly Efficient Perovskite Solar Cells Processed Under Ambient Conditions Using In Situ Substrate-Heating-Assisted Deposition. <b>2019</b> , 3, 1800318	29
221	Optimal Performance Emulation of PSCs using the Elephant Herd Algorithm Associated with Experimental Validation. <b>2019</b> , 8, Q249-Q255	15
220	The synergistic effect of cooperating solvent vapor annealing for high-efficiency planar inverted perovskite solar cells. <b>2019</b> , 7, 27267-27277	17
219	Integration of NiO Layer as Hole Transport Material in Perovskite Solar Cells. <b>2019</b> ,	
218	Single-Source Vapor-Deposited CsAgBiBr Thin Films for Lead-Free Perovskite Solar Cells. <b>2019</b> , 9,	29
217	Carbon-based materials for stable, cheaper and large-scale processable perovskite solar cells. <b>2019</b> , 12, 3437-3472	134
216	Achieving 20% Efficiency for Low-Temperature-Processed Inverted Perovskite Solar Cells. <b>2019</b> , 29, 1807556	57



215	Strategies to Improve Luminescence Efficiency of Metal-Halide Perovskites and Light-Emitting Diodes. <b>2019</b> , 31, e1804595	64
214	Performance analysis of perovskite solar cells in 2013–2018 using machine-learning tools. <b>2019</b> , 56, 770-791	49
213	Rapid and sheet-to-sheet slot-die coating manufacture of highly efficient perovskite solar cells processed under ambient air. <b>2019</b> , 177, 255-261	23
212	Stability of Quantum Dots, Quantum Dot Films, and Quantum Dot Light-Emitting Diodes for Display Applications. <b>2019</b> , 31, e1804294	241
211	Optimizing reaction kinetics of sequential deposition technique for ambient air and solution processed hybrid perovskite thin films. <b>2019</b> , 30, 4250-4258	4
210	High-performance metal-oxide-free perovskite solar cells based on organic electron transport layer and cathode. <b>2019</b> , 64, 195-201	9
209	Synthetic Approaches for Halide Perovskite Thin Films. <b>2019</b> , 119, 3193-3295	293
208	Rapid Crystallization for Efficient 2D Ruddlesden-Popper (2DRP) Perovskite Solar Cells. <b>2019</b> , 29, 1806831	68
207	An ionic compensation strategy for high-performance mesoporous perovskite solar cells: healing defects with tri-iodide ions in a solvent vapor annealing process. <b>2019</b> , 7, 353-362	18
206	Recent Advances in Energetics and Stability of Metal Halide Perovskites for Optoelectronic Applications. <b>2019</b> , 6, 1801351	20
205	Humidity-insensitive fabrication of efficient perovskite solar cells in ambient air. <b>2019</b> , 412, 359-365	17
204	Stable and efficient perovskite solar cells fabricated using aqueous lead nitrate precursor: Interpretation of the conversion mechanism and renovation of the sequential deposition. <b>2019</b> , 14, 100125	8
203	Lead-Free Double Perovskites for Perovskite Solar Cells. <b>2020</b> , 4, 1900306	64
202	Synergy of Plasmonic Silver Nanorod and Water for Enhanced Planar Perovskite Photovoltaic Devices. <b>2020</b> , 4, 1900231	16
201	Carbon-Electrode Based Perovskite Solar Cells: Effect of Bulk Engineering and Interface Engineering on the Power Conversion Properties. <b>2020</b> , 4, 1900190	21
200	Fabrication of efficient CsPbBr <sub>3</sub> perovskite solar cells by single-source thermal evaporation. <b>2020</b> , 818, 152903	32
199	CsPbBr quantum dots assisted crystallization of solution-processed perovskite films with preferential orientation for high performance perovskite solar cells. <b>2019</b> , 31, 085401	8
198	Molecularly imprinted polymers and PEG double engineered perovskite: an efficient platform for constructing aqueous solution feasible photoelectrochemical sensor. <b>2020</b> , 304, 127321	20

197	Lattice reconstruction of La-incorporated CsPbI <sub>2</sub> Br with suppressed phase transition for air-processed all-inorganic perovskite solar cells. <b>2020</b> , 8, 3351-3358	19
196	Defects Healing in Two-Step Deposited Perovskite Solar Cells via Formamidinium Iodide Compensation. <b>2020</b> , 3, 3318-3327	18
195	Conjugated Polymers as Hole Transporting Materials for Solar Cells. <b>2020</b> , 38, 449-458	6
194	Air-processed carbon-based perovskite solar cells with enhanced efficiency and stability: Effect of temperature control and using CuSCN. <b>2020</b> , 821, 153272	19
193	Low temperature, solution processed spinel NiCo <sub>2</sub> O <sub>4</sub> nanoparticles as efficient hole transporting material for mesoscopic n-i-p perovskite solar cells. <b>2020</b> , 196, 367-378	15
192	New Strategies for Defect Passivation in High-Efficiency Perovskite Solar Cells. <b>2020</b> , 10, 1903090	152
191	A facile strategy for enhanced performance of inverted organic solar cells based on low-temperature solution-processed SnO <sub>2</sub> electron transport layer. <b>2020</b> , 78, 105555	8
190	Solution-based heteroepitaxial growth of stable mixed cation/anion hybrid perovskite thin film under ambient condition via a scalable crystal engineering approach. <b>2020</b> , 69, 104441	23
189	Enhanced V of two-dimensional Ruddlesden-Popper perovskite solar cells using binary synergetic organic spacer cations. <b>2019</b> , 22, 54-61	9
188	Modulable hysteresis behavior controlled by water-promoted decomposition in a single CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> micro/nanowire. <b>2020</b> , 507, 145048	4
187	Nanoscale mapping of humid degradation-induced local mechanical property variation in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> polycrystalline film by scanning probe microscopy. <b>2020</b> , 507, 145078	6
186	Selective doping to relax glassified grain boundaries substantially enhances the ionic conductivity of LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> glass-ceramic electrolytes. <b>2020</b> , 449, 227574	9
185	Stability of materials and complete devices. <b>2020</b> , 197-215	1
184	Nanoscale control of grain boundary potential barrier, dopant density and filled trap state density for higher efficiency perovskite solar cells. <b>2020</b> , 2, 409-423	16
183	Improving the performance of lead-acetate-based perovskite solar cells using solvent controlled crystallization process. <b>2020</b> , 78, 105552	9
182	Degradation mechanism of flexible perovskite solar cells: Investigated by tracking of the heterojunction property. <b>2020</b> , 123, 110696	5
181	Synergistic engineering of hole transport materials in perovskite solar cells. <b>2020</b> , 2, 928-941	16
180	Improved Pore-Filling and Passivation of Defects in Hole-Conductor-Free, Fully Printable Mesoscopic Perovskite Solar Cells Based on d-Sorbitol Hexaacetate-Modified MAPbI <sub>3</sub> . <b>2020</b> , 12, 47677-47683	5

179	Influence of Temperature, Pressure, and Humidity on the Stabilities and Transition Kinetics of the Various Polymorphs of FAPbI <sub>3</sub> . <b>2020</b> , 124, 22972-22980	8
178	Eppur si Muove: Proton Diffusion in Halide Perovskite Single Crystals. <b>2020</b> , 32, e2002467	20
177	Preparing Ambient-Processed Perovskite Solar Cells with Better Electronic Properties via Preheating Assisted One-Step Deposition Method. <b>2020</b> , 15, 178	3
176	Improving the Stability and Optoelectronic Properties of All Inorganic Less-Pb Perovskites by B-Site Doping for High-Performance Inorganic Perovskite Solar Cells. <b>2020</b> , 4, 2000528	10
175	Water-stable polymer hole transport layer in organic and perovskite light-emitting diodes. <b>2020</b> , 478, 228810	0
174	Light-induced improvement of dopant-free PTAA on performance of inverted perovskite solar cells. <b>2020</b> , 215, 110606	13
173	Synthesis of single CsPbBr <sub>3</sub> @SiO <sub>2</sub> core-shell particles via surface activation. <b>2020</b> , 8, 17403-17409	12
172	Intense Pulse Light Annealing of Perovskite Photovoltaics Using Gradient Flashes. <b>2020</b> , 3, 11641-11654	6
171	Combined Computational and Experimental Investigation on the Nature of Hydrated Iodoplumbate Complexes: Insights into the Dual Role of Water in Perovskite Precursor Solutions. <b>2020</b> , 124, 11481-11490	12
170	Electrical and Optical Properties of Nickel-Oxide Films for Efficient Perovskite Solar Cells. <b>2020</b> , 4, 2000454	19
169	In situ TEM observation of the heat-induced degradation of single and triple junction planar perovskite solar cells. <b>2020</b> , 77, 105164	14
168	A new family of liquid and solid guanidine-based n-type dopants for solution-processed perovskite solar cells. <b>2020</b> , 4, 3616-3622	2
167	An Efficient and Stable Perovskite Solar Cell with Suppressed Defects by Employing Dithizone as a Lead Indicator. <b>2020</b> , 132, 21593-21597	0
166	An Efficient and Stable Perovskite Solar Cell with Suppressed Defects by Employing Dithizone as a Lead Indicator. <b>2020</b> , 59, 21409-21413	16
165	Toward Greener Solution Processing of Perovskite Solar Cells. <b>2020</b> , 8, 13126-13138	22
164	Manipulation of PEDOT:PSS with Polar and Nonpolar Solvent Post-treatment for Efficient Inverted Perovskite Solar Cells. <b>2020</b> , 3, 9656-9666	8
163	Ambient Manipulation of Perovskites by Alternating Electric Field toward Tunable Photovoltaic Performance. <b>2020</b> , 30, 2004652	5
162	Deterioration mechanism of perovskite solar cells by operando observation of spin states. <b>2020</b> , 1,	7

161	SiO <sub>2</sub> nanoparticle-regulated crystallization of lead halide perovskite and improved efficiency of carbon-electrode-based low-temperature planar perovskite solar cells. <b>2020</b> , 29, 078401	1
160	The Role of Surface Termination in Halide Perovskites for Efficient Photocatalytic Synthesis. <b>2020</b> , 59, 12931-12937	19
159	High-humidity processed perovskite solar cells. <b>2020</b> , 8, 10481-10518	32
158	Solvent modification to suppress halide segregation in mixed halide perovskite solar cells. <b>2020</b> , 55, 9787-9794	4
157	The Role of Surface Termination in Halide Perovskites for Efficient Photocatalytic Synthesis. <b>2020</b> , 132, 13031-13037	1
156	Identifying, understanding and controlling defects and traps in halide perovskites for optoelectronic devices: a review. <b>2020</b> , 53, 373001	16
155	All-Inorganic CsPbBr Perovskite Films Prepared by Single Source Thermal Ablation. <b>2020</b> , 8, 313	18
154	Electron Transport Materials: Evolution and Case Study for High-Efficiency Perovskite Solar Cells. <b>2020</b> , 4, 2000136	16
153	Solution-processed perovskite solar cells. <b>2020</b> , 27, 1104-1133	21
152	Progress in Materials Development for the Rapid Efficiency Advancement of Perovskite Solar Cells. <b>2020</b> , 16, e1907531	18
151	Defect suppression and passivation for perovskite solar cells: from the birth to the lifetime operation. <b>2020</b> , 2, 100032	12
150	Vapor-Phase Photocatalytic Overall Water Splitting Using Hybrid Methylammonium Copper and Lead Perovskites. <b>2020</b> , 10,	6
149	Enhanced photovoltaic performance and reduced hysteresis in hole-conductor-free, printable mesoscopic perovskite solar cells based on melamine hydroiodide modified MAPbI <sub>3</sub> . <b>2020</b> , 206, 548-554	7
148	Interaction engineering in organic/inorganic hybrid perovskite solar cells. <b>2020</b> , 7, 2208-2236	13
147	Good or evil: what is the role of water in crystallization of organometal halide perovskites?. <b>2020</b> , 5, 1147-1154	4
146	Understanding of perovskite crystal growth and film formation in scalable deposition processes. <b>2020</b> , 49, 1653-1687	184
145	Intermediate-Controlled Interfacial Engineering for Stable and Highly Efficient Carbon-Based PSCs. <b>2020</b> , 12, 34479-34486	2
144	TiO <sub>2</sub> @PbTiO <sub>3</sub> core-shell nanoparticles as mesoporous layer to improve electron transport performance in carbon-based perovskite solar cells. <b>2020</b> , 254, 123436	3

143	Thermal Stability and Performance Enhancement of Perovskite Solar Cells Through Oxalic Acid-Induced Perovskite Formation. <b>2020</b> , 3, 2432-2439	34
142	Controllable Multistep Preparation Method for High-Efficiency Perovskite Solar Cells with Low Annealing Temperature in Glove Box. <b>2020</b> , 8, 2000071	3
141	Tailoring Perovskite Adjacent Interfaces by Conjugated Polyelectrolyte for Stable and Efficient Solar Cells. <b>2020</b> , 4, 2000060	14
140	Multifunctional nanostructured materials for next generation photovoltaics. <b>2020</b> , 70, 104480	25
139	Understanding the Interplay of Binary Organic Spacer in Ruddlesden-Popper Perovskites toward Efficient and Stable Solar Cells. <b>2020</b> , 30, 1907759	17
138	Ambient Air Stability of Hybrid Perovskite Thin-Film Transistors by Ambient Air Processing. <b>2020</b> , 7, 1901777	11
137	Heavy Water Additive in Formamidinium: A Novel Approach to Enhance Perovskite Solar Cell Efficiency. <b>2020</b> , 32, e1907864	34
136	Secondary Grain Growth in Organic-Inorganic Perovskite Films with Ethylamine Hydrochloride Additives for Highly Efficient Solar Cells. <b>2020</b> , 12, 20026-20034	15
135	Vapor-Deposited CsAgBiCl Double Perovskite Films toward Highly Selective and Stable Ultraviolet Photodetector. <b>2020</b> , 7, 1903662	40
134	A New Strategy for Increasing the Efficiency of Inverted Perovskite Solar Cells to More than 21%: High-Humidity Induced Self-Passivation of Perovskite Films. <b>2020</b> , 4, 2000149	10
133	Molecular-Level Insight into Correlation between Surface Defects and Stability of Methylammonium Lead Halide Perovskite Under Controlled Humidity.. <b>2021</b> , 5, e2000834	13
132	Evaluation of the optical properties of the lead-free mixed-halide iron perovskite CH <sub>3</sub> NH <sub>3</sub> FeI <sub>2</sub> Br for application in solar cells: A computational study. <b>2021</b> , 26, 101847	0
131	Advanced Strategies of Passivating Perovskite Defects for High-Performance Solar Cells. <b>2021</b> , 4, 293-301	5
130	Impact of halide additives on green antisolvent and high-humidity processed perovskite solar cells. <b>2021</b> , 536, 147949	4
129	Environmental risks and strategies for the long-term stability of carbon-based perovskite solar cells. <b>2021</b> , 19, 100590	9
128	Low-temperature processed bipolar metal oxide charge transporting layers for highly efficient perovskite solar cells. <b>2021</b> , 221, 110870	5
127	Ambient Fabrication of Organic-Inorganic Hybrid Perovskite Solar Cells.. <b>2021</b> , 5, e2000744	23
126	Preparation and Properties of Films of Organic-Inorganic Perovskites MAPbX <sub>3</sub> (MA = CH <sub>3</sub> NH <sub>3</sub> ; X = Cl, Br, I) for Solar Cells: A Review. <b>2021</b> , 56, 359-386	2

125	Methylamine-assisted secondary grain growth for CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite films with large grains and a highly preferred orientation. <b>2021</b> , 9, 7625-7630	4
124	Heterogenization of homogeneous photocatalysts utilizing synthetic and natural support materials. <b>2021</b> , 9, 4454-4504	16
123	Bathocuproine as a cathode interlayer for nonfullerene organic solar cells with efficiency over 17%.	3
122	Research progress of light irradiation stability of functional layers in perovskite solar cells. <b>2021</b> , 0-0	0
121	Tris(4-(1-phenyl-1H-benzo[d]imidazole)phenyl)phosphine oxide for enhanced mobility and restricted traps in photovoltaic interlayers. <b>2021</b> , 9, 3642-3651	2
120	Plasmon-Enhanced Perovskite Solar Cells with Efficiency Beyond 21 %: The Asynchronous Synergistic Effect of Water and Gold Nanorods. <b>2021</b> , 86, 291-297	16
119	Polarization improvement of CsPbClBr quantum dot film by laser direct writing technology. <b>2021</b> , 46, 777-780	2
118	Perovskite Nanocrystals: Synthesis, Stability, and Optoelectronic Applications. <b>2021</b> , 2, 2000124	20
117	A Rapid and Robust Light-and-Solution-Triggered In Situ Crafting of Organic Passivating Membrane over Metal Halide Perovskites for Markedly Improved Stability and Photocatalysis. <b>2021</b> , 21, 1643-1650	19
116	Elucidating Mechanisms behind Ambient Storage-Induced Efficiency Improvements in Perovskite Solar Cells. <b>2021</b> , 6, 925-933	23
115	Factors influencing the nucleation and crystal growth of solution-processed organic lead halide perovskites: a review. <b>2021</b> , 54, 163001	10
114	Post-Treating the Precursor Intermediate Film by a Cooling Stage for Fabricating Efficient Formamidinium-Based Perovskite Solar Cells. <b>2021</b> , 13, 11783-11792	4
113	Volatile solution: the way toward scalable fabrication of perovskite solar cells?. <b>2021</b> , 4, 775-793	16
112	Mild water intake orients crystal formation imparting high tolerance on unencapsulated halide perovskite solar cells. <b>2021</b> , 2, 100395	3
111	Photo-stable perovskite solar cells with reduced interfacial recombination losses using a CeOx interlayer. <b>2021</b> , 64, 1858-1867	3
110	The Challenge of Ambient Air-Processed Organometallic Halide Perovskite: Technology Transfer From Spin Coating to Meniscus Blade Coating of Perovskite Thin Films. <b>2021</b> , 8,	6
109	Photoemission Studies on the Environmental Stability of Thermal Evaporated MAPbI <sub>3</sub> Thin Films and MAPbBr <sub>3</sub> Single Crystals. <b>2021</b> , 14, 2005	0
108	Device Modeling and Design of Inverted Solar Cell Based on Comparative Experimental Analysis between Effect of Organic and Inorganic Hole Transport Layer on Morphology and Photo-Physical Property of Perovskite Thin Film. <b>2021</b> , 14,	

107	Photodegradation pathways of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> organic perovskite polycrystalline film observed by in-situ scanning probe microscopy. <b>2021</b> , 545, 149081		0
106	Polymer Additive Assisted Fabrication of Compact and Ultra-Smooth Perovskite Thin Films with Fast Lamp Annealing. <b>2021</b> , 14, 2656		0
105	Reduction of Hysteresis in Hybrid Perovskite Transistors by Solvent-Controlled Growth. <b>2021</b> , 14,		2
104	Achieving Resistance against Moisture and Oxygen for Perovskite Solar Cells with High Efficiency and Stability. <b>2021</b> , 33, 4269-4303		14
103	Halide Perovskites: A New Era of Solution-Processed Electronics. <b>2021</b> , 33, e2005000		48
102	An ultraviolet-ozone post-treatment to remove the inherent impurities in all-ambient solution-processed CsPbBr <sub>3</sub> perovskite films. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 221604	3-4	2
101	Behavior of photoexcited electrons in hole-transport material-free perovskite solar cells. <b>2021</b> , 39, 032202		
100	Structural Transitions and Stability of FAPbI and MAPbI: The Role of Interstitial Water. <b>2021</b> , 11,		0
99	Octylammonium Sulfate Decoration Enhancing the Moisture Durability of Quasi-2D Perovskite Film for Light-Emitting Diodes. <b>2021</b> , 8, 2100442		3
98	Exploring Transport Behavior in Hybrid Perovskites Solar Cells via Machine Learning Analysis of Environmental-Dependent Impedance Spectroscopy. <b>2021</b> , 8, e2002510		7
97	Tailored Key Parameters of Perovskite for High-Performance Photovoltaics. <b>2021</b> , 2, 447-457		1
96	Understanding the synergistic effect of mixed solvent annealing on perovskite film formation*. <b>2021</b> , 30, 068103		
95	Room-Temperature-Processed, Carbon-Based Fully Printed Mesoscopic Perovskite Solar Cells with 15% Efficiency. <b>2021</b> , 5, 2100274		5
94	Water-stable CsPbBr <sub>3</sub> perovskite quantum-dot luminous fibers fabricated by centrifugal spinning for dual white light illumination and communication. <b>2021</b> , 9, 1559		2
93	Liquid medium annealing for fabricating durable perovskite solar cells with improved reproducibility. <b>2021</b> , 373, 561-567		60
92	Elucidating the Spatial Dynamics of Charge Carriers in Quasi-Two-Dimensional Perovskites. <b>2021</b> , 13, 35133-35141		3
91	Manipulated Crystallization and Passivated Defects for Efficient Perovskite Solar Cells via Addition of Ammonium Iodide. <b>2021</b> , 13, 34053-34063		3
90	Progress in ambient air-processed perovskite solar cells: Insights into processing techniques and stability assessment. <b>2021</b> , 224, 1369-1395		11

89	Interfacial and Permeating Modification Effect of n-type Non-fullerene Acceptors toward High-Performance Perovskite Solar Cells. <b>2021</b> , 13, 40778-40787	7
88	Grain Boundaries in Methylammonium Lead Halide Perovskites Facilitate Water Diffusion. 2100087	2
87	Upscaling perovskite solar cells via the ambient deposition of perovskite thin films. <b>2021</b> , 3, 747-764	2
86	Defect reduction by anthraquinone-modified graphdiyne quantum dots for efficient perovskite solar cells. <b>2021</b> , 8, 044010	2
85	Humidity-Assisted Chlorination with Solid Protection Strategy for Efficient Air-Fabricated Inverted CsPbI <sub>3</sub> Perovskite Solar Cells. 3661-3668	13
84	Suppressed Phase Segregation in High-Humidity-Processed DionJacobson Perovskite Solar Cells Toward High Efficiency and Stability. <b>2021</b> , 5, 2100555	2
83	Optimization of TiO <sub>2</sub> paste concentration employed as electron transport layers in fully ambient air processed perovskite solar cells with a low-cost architecture. <b>2021</b> , 48, 320-320	6
82	The Impact of Solvent Vapor on the Film Morphology and Crystallization Kinetics of Lead Halide Perovskites during Annealing. <b>2021</b> , 13, 45365-45374	4
81	Application of lead-free BaZr <sub>0.1</sub> Ti <sub>0.9</sub> O <sub>3</sub> in polarized tunable charge transfer perovskite solar cells. <b>2021</b> , 130, 115301	0
80	A simple and low-cost surface treatment to facilitate charge extraction and eliminate light soaking of polymer solar cells. <b>2021</b> , 564, 150425	
79	Defect passivation and interface modification by tetra-n-octadecyl ammonium bromide for efficient and stable inverted perovskite solar cells. <b>2022</b> , 429, 132426	3
78	Low-temperature sprayed carbon electrode in modular HTL-free perovskite solar cells: a comparative study on the choice of carbon sources. <b>2021</b> , 9, 3546-3554	8
77	Organic-inorganic hybrid lead halide perovskites for optoelectronic and electronic applications. <b>2021</b> , 267-289	2
76	Synergistic Benefits of Cesium-Doped Aqueous Precursor in Air-Processed Inverted Perovskite Solar Cells. <b>2020</b> , 4, 1900406	6
75	Grain boundary passivation with triazine-graphdiyne to improve perovskite solar cell performance. <b>2020</b> , 63, 2465-2476	17
74	Highly Crystalline and (110)-Oriented n-Type Perovskite Films with Excellent Structural Stability via Cu Doping. <b>2021</b> , 21, 462-470	4
73	Perovskite Solar Cells Based on Compact, Smooth FAMAPbI Film with Efficiency Exceeding 22. <b>2020</b> , 15, 89	8
72	Air-stable perovskite photovoltaic cells with low temperature deposited NiO <sub>x</sub> as an efficient hole-transporting material. <b>2020</b> , 10, 1801	11



71	Photoluminescence characterizations of highly ambient-air-stable CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /PbI <sub>2</sub> heterostructure. <b>2019</b> , 9, 1882	12
70	Progress and Prospect on Stability of Perovskite Photovoltaics. <b>2017</b> , 4, 16-30	7
69	Recent Advances and Challenges in Halide Perovskite Crystals in Optoelectronic Devices from Solar Cells to Other Applications. <b>2021</b> , 11, 39	4
68	An in-situ real time study of the perovskite film micro-structural evolution in a humid environment by using synchrotron based characterization technique. <b>2017</b> , 66, 018401	2
67	Influence of phenyl-C61-butyric acid methyl ester (PCBM) electron transport layer treated by two additives on perovskite solar cell performance. <b>2017</b> , 66, 118801	2
66	High throughput screening of novel tribromide perovskite materials for high-photovoltage solar cells.	3
65	Emerging electronic applications of fullerene derivatives: an era beyond OPV.	3
64	High-field polarization boosting visible-light photocatalytic H <sub>2</sub> evolution of narrow-bandgap semiconducting (1-x)KNbO <sub>3</sub> -xBa(Ni <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> ferroelectric ceramics. <b>2021</b> , 45, 20296-20308	
63	Ambient-environment processed perovskite solar cells: A review. <b>2021</b> , 21, 100557	1
62	Vapor deposition of metal halide perovskite thin films: Process control strategies to shape layer properties. <b>2021</b> , 9, 100703	7
61	Enhancing the photo-luminescence stability of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> film with ionic liquids.	0
60	Stable and Efficient Perovskite Solar Cells Fabricated Using Aqueous Lead Nitrate Precursor: Interpretation of the Conversion Mechanism and Renovation of the Sequential Deposition.	
59	Experimental realization of strain-induced room-temperature ferroelectricity in SrMnO <sub>3</sub> films via selective oxygen annealing. <b>2021</b> , 13,	0
58	Organic Halide PEACl for Surface Passivation and Defects Suppression in Perovskite Solar Cells.	3
57	Development of encapsulation strategies towards the commercialization of perovskite solar cells.	33
56	Structural and Optoelectronic Properties of Spin-Coated CH <sub>3</sub> NH <sub>3</sub> PbCl <sub>3</sub> Thin Film Using Non-halide Source of Lead. <b>2020</b> , 929-937	
55	Tuning Interfacial Effects in Hybrid Perovskite Solar Cells. <b>2021</b> , 113-173	
54	A review on the emerging applications of 4-cyano-4'-alkylbiphenyl (nCB) liquid crystals beyond display. <b>2022</b> , 275, 115522	1

53	Defect Behaviors in Perovskite Light-Emitting Diodes. 1702-1728	5
52	Improving Contact and Passivation of Buried Interface for High-Efficiency and Large-Area Inverted Perovskite Solar Cells. 2109968	12
51	Amino-Linked Conjugated Tetrazole Ring Passivation Strategy for Air-Processed Perovskite Cells with Predominant Stability and Efficiency. <b>2021</b> ,	0
50	Ambient environment induced synergetic improvement in morphology and iodine vacancy passivation by MAI surface engineering in mixed-cation lead mixed-halide (FA <sub>0.85</sub> MA <sub>0.15</sub> PbI <sub>0.55</sub> Br <sub>0.45</sub> ) perovskite solar cells. <b>2022</b> , 29, 101703	0
49	A comparison of electrical parameters and efficiency improvement between perovskite cells with carbon and metal electrodes. <b>2020</b> ,	
48	Influence of Photon Pump Fluence on Charge Carriers in FAPbI <sub>3</sub> and Manganite Perovskites. <b>2022</b> , 12, 54-64	
47	Inverted Perovskite Solar Cells: The Emergence of a Highly Stable and Efficient Architecture. 2100952	2
46	Using ZnCoO nanoparticles as the hole transport layer to improve long term stability of perovskite solar cells.. <b>2022</b> , 12, 2921	1
45	Modular Perovskite Solar Cells with Cs <sub>0.05</sub> (FA <sub>0.85</sub> MA <sub>0.15</sub> ) <sub>0.95</sub> Pb(I <sub>0.85</sub> Br <sub>0.15</sub> ) <sub>3</sub> Light-Harvesting Layer and Graphene Electrode. <b>2022</b> , 51, 2381-2389	1
44	The effect of argon plasma treatment on surface engineering in an inverted perovskite solar cell. <b>2022</b> , 134, 1	0
43	Vapor-Phase Deposition of Highly Luminescent Embedded Perovskite Nanocrystals. 2102809	1
42	All green solvent engineering of organic-inorganic hybrid perovskite layer for high-performance solar cells. <b>2022</b> , 437, 135458	8
41	Characterize and Retard the Impact of the Bias-Induced Mobile Ions in CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite Light-Emitting Diodes. <b>2022</b> , 10, 2101439	1
40	Efficient Ag-Doped Perovskite Solar Cells Fabricated in Ambient Air. <b>2021</b> , 11, 1521	0
39	Solvent Effects on the Structural and Optical Properties of MAPbI <sub>3</sub> Perovskite Thin Film for Photovoltaic Active Layer. <b>2022</b> , 12, 549	0
38	Data_Sheet_1.PDF. <b>2020</b> ,	
37	Rear Electrode Materials for Perovskite Solar Cells. 2200651	5
36	Hydrogen Bonds in Precursor Solution: The Origin of the Anomalous J <sub>V</sub> Curves in Perovskite Solar Cells. <b>2022</b> , 12, 610	0

35	Precursor formula engineering enabling high quality solution processed C60 films for efficient and stable inverted perovskite solar cells. <b>2022</b> , 136897	0
34	Halide anions engineered ionic liquids passivation layer for highly stable inverted perovskite solar cells.. <b>2022</b> , 622, 469-480	2
33	Counter Electrodes for Perovskite Solar Cells: Materials, Interfaces and Device Stability.	1
32	Crystallization under control. <b>2022</b> , 7, 480-481	
31	Recent advancements and future insight of lead-free non-toxic perovskite solar cells for sustainable and clean energy production: A review. <b>2022</b> , 53, 102433	1
30	High efficiency stable planar perovskite solar cells via heavy water additive. <b>2022</b> , 245, 111861	
29	Progress and challenges of halide perovskite-based solar cell- a brief review. <b>2022</b> , 150, 106953	1
28	Inactive (PbI <sub>2</sub> ) <sub>2</sub> RbCl stabilizes perovskite films for efficient solar cells. <b>2022</b> , 377, 531-534	85
27	Recent Advances in CsPbX <sub>3</sub> Perovskite Solar Cells: Focus on Crystallization Characteristics and Controlling Strategies. 2201733	6
26	Moisture-triggered fast crystallization enables efficient and stable perovskite solar cells. <b>2022</b> , 13,	3
25	Impact of humidity in triple cation perovskite solar cells: Surface analysis. <b>2022</b> , 152, 107100	1
24	Screening interface passivation materials intelligently through machine learning for highly efficient perovskite solar cells. <b>2022</b> , 10, 17782-17789	2
23	Environmental impact of quantum dots. <b>2022</b> , 837-867	0
22	Laser-Induced Secondary Crystallization of CsPbBr <sub>3</sub> Perovskite Film for Robust and Low Threshold Amplified Spontaneous Emission. 2207206	0
21	Restructuring and Reshaping of CsPbX <sub>3</sub> Perovskites by Lithium Salts. 2201296	0
20	Moisture-dependent room-temperature perovskite crystallization in vacuum flash-assisted solution processed intermediate phase films. <b>2022</b> , 106652	0
19	Fullerene-Based Inverted Perovskite Solar Cell: A Key to Achieve Promising, Stable, and Efficient Photovoltaics. 2201438	5
18	Preparation of Perovskite Solar Cells in the Air: Degradation Mechanism and Prospects on Large-area Fabrication.	1

- 17 Minimizing the Voltage Deficit of Tin Halide Perovskite Solar Cells with Hydroxyurea-Doped PEDOT:PSS. ○
- 16 Dark And Photoconductivity Behavior of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Thin Films Depending On Atmospheric Conditions. 2140-2152 ○
- 15 The interplay of organic spacer and small cation for efficient Dion-Jacobson perovskite solar cells. ○
- 14 Reexamining the Post-Treatment Effects on Perovskite Solar Cells: Passivation and Chloride Redistribution. 2201467 ○
- 13 Slot-die coating fabrication of perovskite solar cells toward commercialization. **2023**, 942, 169104 ○
- 12 EtOH/H<sub>2</sub>O ratio modulation on carbon for high-Voc (1.03 V) printable mesoscopic perovskite solar cells without any passivation. **2023**, 4, 1534-1545 ○
- 11 Halide perovskites and high-pressure technologies: a fruitful encounter. ○
- 10 Simple approach for crystallizing growth of MAPbI<sub>3</sub> perovskite nanorod without thermal annealing for Next-Generation optoelectronic applications. **2023**, 298, 127423 1
- 9 Comprehensive review of environmental factors influencing the performance of photovoltaic panels: Concern over emissions at various phases throughout the lifecycle. **2023**, 326, 121474 ○
- 8 Simultaneous defect passivation and energy level modulation by multifunctional phthalocyanine for efficient and stable perovskite solar cells. **2023**, 459, 141573 ○
- 7 Thermal Annealing Effect on Surface-Enhanced Raman Scattering of Gold Films Deposited on Liquid Substrates. **2023**, 28, 1472 ○
- 6 Shedding Light on the Moisture Stability of Halide Perovskite Thin Films. **2023**, 11, ○
- 5 Rethinking the Role of Excess/Residual Lead Iodide in Perovskite Solar Cells. 2215171 ○
- 4 Surface decorated quantum dots: Synthesis, properties and role in herbal therapy. 11, ○
- 3 Enhanced Performance and Stability of Fully Printed Perovskite Solar Cells and Modules by Ternary Additives under High Humidity. **2023**, 37, 6049-6061 ○
- 2 Hydrogen-bond-bridged intermediate for perovskite solar cells with enhanced efficiency and stability. ○
- 1 Influence of water vapor treatment on the properties of CsPbBr<sub>3</sub> perovskite solar cells. **2023**, 138, ○