

# Yi-Bing Cheng

## List of Publications by Year in Descending Order

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**Version:** 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

532 papers	29,111 citations	82 h-index	151 g-index
560 ext. papers	32,507 ext. citations	8.7 avg, IF	7.32 L-index

#	Paper	IF	Citations
532	All-vacuum deposited perovskite solar cells with glycine modified NiO hole-transport layers.. <i>RSC Advances</i> , <b>2022</b> , 12, 10863-10869	3.7	2
531	Self-Enhancement of Efficiency and Self-Attenuation of Hysteretic Behavior of Perovskite Solar Cells with Aging.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 2792-2799	6.4	5
530	Differentiated Functions of Potassium Interface Passivation and Doping on Charge-Carrier Dynamics in Perovskite Solar Cells.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 3188-3196	6.4	3
529	Bromide complimented methylammonium-free wide bandgap perovskite solar modules with high efficiency and stability. <i>Chemical Engineering Journal</i> , <b>2022</b> , 445, 136626	14.7	2
528	Chlorobenzenesulfonic Potassium Salts as the Efficient Multifunctional Passivator for the Buried Interface in Regular Perovskite Solar Cells (Adv. Energy Mater. 20/2022). <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2270082	21.8	
527	Ionic liquid dopant for hole transporting layer towards efficient LiTFSI-free perovskite solar cells. <i>Chemical Physics Letters</i> , <b>2022</b> , 801, 139713	2.5	1
526	Regulating the Ni <sup>3+</sup> /Ni <sup>2+</sup> ratio of NiO <sub>x</sub> by plasma treatment for fully vacuum-deposited perovskite solar cells. <i>Materials Science in Semiconductor Processing</i> , <b>2022</b> , 148, 106839	4.3	1
525	A universal tactic of using Lewis-base polymer-CNTs composites as additives for high performance cm <sup>2</sup> -sized and flexible perovskite solar cells. <i>Science China Chemistry</i> , <b>2021</b> , 64, 281-292	7.9	4
524	Balancing Charge Extraction for Efficient Back-Contact Perovskite Solar Cells by Using an Embedded Mesoscopic Architecture. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100053	21.8	6
523	Printing strategies for scaling-up perovskite solar cells. <i>National Science Review</i> , <b>2021</b> , 8, nwab075	10.8	16
522	Ink Engineering for Blade Coating FA-Dominated Perovskites in Ambient Air for Efficient Solar Cells and Modules. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 18724-18732	9.5	8
521	Probing the Electron Beam-Induced Structural Evolution of Halide Perovskite Thin Films by Scanning Transmission Electron Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 10786-10794	3.8	4
520	Origin of vertical slab orientation in blade-coated layered hybrid perovskite films revealed with in-situ synchrotron X-ray scattering. <i>Nano Energy</i> , <b>2021</b> , 83, 105818	17.1	4
519	Intermediate phase-enhanced Ostwald ripening for the elimination of phase segregation in efficient inorganic CsPbI <sub>3</sub> Br <sub>2</sub> perovskite solar cells. <i>Science China Materials</i> , <b>2021</b> , 64, 2655-2666	7.1	4
518	Lead halide-templated crystallization of methylamine-free perovskite for efficient photovoltaic modules. <i>Science</i> , <b>2021</b> , 372, 1327-1332	33.3	113
517	The critical role of composition-dependent intragrain planar defects in the performance of MA <sub>1-x</sub> Fa <sub>x</sub> PbI <sub>3</sub> perovskite solar cells. <i>Nature Energy</i> , <b>2021</b> , 6, 624-632	62.3	47
516	Groups-dependent phosphines as the organic redox for point defects elimination in hybrid perovskite solar cells. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 54, 23-29	12	10

515	Efficient and stable perovskite solar cells via surface passivation of an ultrathin hydrophobic organic molecular layer. <i>Chemical Engineering Journal</i> , <b>2021</b> , 405, 126712	14.7	23
514	Light-induced reversal of ion segregation in mixed-halide perovskites. <i>Nature Materials</i> , <b>2021</b> , 20, 55-61	27	55
513	The impact of spiro-OMeTAD photodoping on the reversible light-induced transients of perovskite solar cells. <i>Nano Energy</i> , <b>2021</b> , 82, 105658	17.1	13
512	Bandgap adjustment assisted preparation of >18% Cs FA PbI Br -based perovskite solar cells using a hybrid spraying process.. <i>RSC Advances</i> , <b>2021</b> , 11, 17595-17602	3.7	2
511	High-Performance RbCs0.14FA0.86Pb(BrxI1-x)3 Perovskite Solar Cells Achieved by Regulating the Halogen Exchange in VaporSolid Reaction Process. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100102	7.1	5
510	Interface Passivation Engineering for Hybrid Perovskite Solar Cells. <i>Materials Reports Energy</i> , <b>2021</b> , 1, 100060		5
509	Lead contamination analysis of perovskite modules under simulated working conditions. <i>Solar Energy</i> , <b>2021</b> , 226, 85-91	6.8	5
508	Batch chemical bath deposition of large-area SnO2 film with mercaptosuccinic acid decoration for homogenized and efficient perovskite solar cells. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131444	14.7	6
507	3D nonlinear photolithography of Tin oxide ceramics via femtosecond laser. <i>Science China Materials</i> , <b>2021</b> , 64, 1477-1484	7.1	5
506	Aqueous Sn-S Complex Derived Electron Selective Layer for Perovskite Solar Cells. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2020</b> , 35, 272-279	1	1
505	Formamidinium-Based Perovskite Solar Cells with Enhanced Moisture Stability and Performance via Confined Pressure Annealing. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 12249-12258	3.8	9
504	Structure engineering of hierarchical layered perovskite interface for efficient and stable wide bandgap photovoltaics. <i>Nano Energy</i> , <b>2020</b> , 75, 104917	17.1	19
503	Direct assessment of structural order and evidence for stacking faults in layered hybrid perovskite films from X-ray scattering measurements. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 12790-12798	13	6
502	Recovering Quadruple-cation Perovskite Films from Water Caused Permanent Degradations. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , <b>2020</b> , 35, 57-64	1	2
501	Stabilizing High Efficiency Perovskite Solar Cells with 3D-2D Heterostructures. <i>Joule</i> , <b>2020</b> , 4, 975-979	27.8	21
500	Improving the crystal growth of a Cs0.24FA0.76PbI3Brx perovskite in a vaporSolid reaction process using strontium iodide. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 2491-2496	5.8	3
499	Facile Deposition of Mesoporous PbI2 through DMF:DMSO Solvent Engineering for Sequentially Deposited Metal Halide Perovskites. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 3358-3368	6.1	8
498	Understanding of perovskite crystal growth and film formation in scalable deposition processes. <i>Chemical Society Reviews</i> , <b>2020</b> , 49, 1653-1687	58.5	184

497	Interface modification effect on the performance of CsFAPbI <sub>2</sub> Br perovskite solar cells fabricated by evaporation/spray-coating method. <i>Journal of Chemical Physics</i> , <b>2020</b> , 153, 014706	3.9	9
496	Low-Temperature Solution-Processed Amorphous Titania Nanowire Thin Films for 1 cm Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 11450-11458	9.5	7
495	A pressure-assisted annealing method for high quality CsPbBr <sub>3</sub> film deposited by sequential thermal evaporation.. <i>RSC Advances</i> , <b>2020</b> , 10, 8905-8909	3.7	9
494	Solvent Engineering of a Dopant-Free Spiro-OMeTAD Hole-Transport Layer for Centimeter-Scale Perovskite Solar Cells with High Efficiency and Thermal Stability. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 8260-8270	9.5	20
493	Alkali Cation Doping for Improving the Structural Stability of 2D Perovskite in 3D/2D PSCs. <i>Nano Letters</i> , <b>2020</b> , 20, 1240-1251	11.5	47
492	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. <i>Nature Energy</i> , <b>2020</b> , 5, 35-49	62.3	369
491	Self-augmented ion blocking of sandwiched 2D/1D/2D electrode for solution processed high efficiency semitransparent perovskite solar cell. <i>Nano Energy</i> , <b>2020</b> , 71, 104567	17.1	21
490	Two-step sequential blade-coating of high quality perovskite layers for efficient solar cells and modules. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 8447-8454	13	29
489	Room-temperature Sputtered NiO <sub>x</sub> for hysteresis-free and stable inverted Cs-FA mixed-cation perovskite solar cells. <i>Materials Science in Semiconductor Processing</i> , <b>2020</b> , 115, 105129	4.3	5
488	Printable materials for printed perovskite solar cells. <i>Flexible and Printed Electronics</i> , <b>2020</b> , 5, 014002	3.1	1
487	Efficient and stable planar all-inorganic perovskite solar cells based on high-quality CsPbBr <sub>3</sub> films with controllable morphology. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 46, 8-15	12	56
486	Carbon film electrode based square-centimeter scale planar perovskite solar cells exceeding 17% efficiency. <i>Materials Science in Semiconductor Processing</i> , <b>2020</b> , 107, 104809	4.3	23
485	Raman Spectroscopy of Formamidinium-Based Lead Halide Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 2265-2272	3.8	19
484	Universal defects elimination for high performance thermally evaporated CsPbBr <sub>3</sub> perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 206, 110317	6.4	21
483	Surfactant-assisted doctor-blading-printed FAPbBr <sub>3</sub> films for efficient semitransparent perovskite solar cells. <i>Frontiers of Optoelectronics</i> , <b>2020</b> , 13, 272-281	2.8	9
482	Honeycomb-shaped charge collecting electrodes for dipole-assisted back-contact perovskite solar cells. <i>Nano Energy</i> , <b>2020</b> , 67, 104223	17.1	11
481	Dynamic Antisolvent Engineering for Spin Coating of 10 × 10 cm <sup>2</sup> Perovskite Solar Module Approaching 18%. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900263	7.1	30
480	Incorporation of $\gamma$ -butyrolactone (GBL) dramatically lowers the phase transition temperature of formamidinium-based metal halide perovskites. <i>Chemical Communications</i> , <b>2019</b> , 55, 11743-11746	5.8	5

479	Oriented Attachment as the Mechanism for Microstructure Evolution in Chloride-Derived Hybrid Perovskite Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 39930-39939	9.5	20
478	Fatigue stability of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> based perovskite solar cells in day/night cycling. <i>Nano Energy</i> , <b>2019</b> , 58, 687-694	17.1	33
477	Efficient Planar Perovskite Solar Cells via a Sputtered Cathode. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900209	7.1	8
476	Influence of phase transition on stability of perovskite solar cells under thermal cycling conditions. <i>Solar Energy</i> , <b>2019</b> , 188, 312-317	6.8	13
475	Efficient Gas Adsorption Using Superamphiphobic Porous Monoliths as the under-Liquid Gas-Conductive Circuits. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 24795-24801	9.5	3
474	Enhancing the thermal stability of the carbon-based perovskite solar cells by using a Cs FA PbBr I light absorber.. <i>RSC Advances</i> , <b>2019</b> , 9, 11877-11881	3.7	11
473	Triggering the Passivation Effect of Potassium Doping in Mixed-Cation Mixed-Halide Perovskite by Light Illumination. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901016	21.8	84
472	High performance perovskite sub-module with sputtered SnO <sub>2</sub> electron transport layer. <i>Solar Energy</i> , <b>2019</b> , 183, 306-314	6.8	30
471	Fabrication of Efficient and Stable Perovskite Solar Cells in High-Humidity Environment through Trace-Doping of Large-Sized Cations. <i>ChemSusChem</i> , <b>2019</b> , 12, 2385-2392	8.3	9
470	Sub-sized monovalent alkaline cations enhanced electrical stability for over 17% hysteresis-free planar perovskite solar mini-module. <i>Electrochimica Acta</i> , <b>2019</b> , 306, 635-642	6.7	9
469	Copper-Nickel Nitride Nanosheets as Efficient Bifunctional Catalysts for Hydrazine-Assisted Electrolytic Hydrogen Production. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900390	21.8	128
468	Room-temperature synthesized SnO electron transport layers for efficient perovskite solar cells.. <i>RSC Advances</i> , <b>2019</b> , 9, 9946-9950	3.7	11
467	Moisture assisted CsPbBr <sub>3</sub> film growth for high-efficiency, all-inorganic solar cells prepared by a multiple sequential vacuum deposition method. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 98, 39-43	4.3	24
466	LiTFSI-Free Spiro-OMeTAD-Based Perovskite Solar Cells with Power Conversion Efficiencies Exceeding 19%. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901519	21.8	46
465	Improved Performance of Planar Perovskite Solar Cells Using an Amino-Terminated Multifunctional Fullerene Derivative as the Passivation Layer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 27145-27152	9.5	23
464	Multiple Roles of Cobalt Pyrazol-Pyridine Complexes in High-Performing Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 4675-4682	6.4	12
463	Light induced degradation in mixed-halide perovskites. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 9326-9334	9.3	37
462	Long-Distance Ionic Diffusion in Cesium Lead Mixed Halide Perovskite Induced by Focused Illumination. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9049-9056	9.6	20

461	Controlling Homogenous Spherulitic Crystallization for High-Efficiency Planar Perovskite Solar Cells Fabricated under Ambient High-Humidity Conditions. <i>Small</i> , <b>2019</b> , 15, e1904422	11	21
460	Titelbild: Visualisierung der Phasensegregation in Gemischthalogenid- Perowskiteinkristallen (Angew. Chem. 9/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2549-2549	3.6	
459	Surface modification via self-assembling large cations for improved performance and modulated hysteresis of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 6793-6800	13	35
458	A perovskite/silicon hybrid system with a solar-to-electric power conversion efficiency of 25.5%. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26479-26489	13	15
457	Visualisierung der Phasensegregation in Gemischthalogenid- Perowskiteinkristallen. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 2919-2924	3.6	1
456	Visualizing Phase Segregation in Mixed-Halide Perovskite Single Crystals. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2893-2898	16.4	49
455	Silver Bismuth Sulfoiodide Solar Cells: Tuning Optoelectronic Properties by Sulfide Modification for Enhanced Photovoltaic Performance. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803396	21.8	52
454	[6,6]-Phenyl-C-Butyric Acid Methyl Ester/Cerium Oxide Bilayer Structure as Efficient and Stable Electron Transport Layer for Inverted Perovskite Solar Cells. <i>ACS Nano</i> , <b>2018</b> , 12, 2403-2414	16.7	86
453	Organic/inorganic self-doping controlled crystallization and electronic properties of mixed perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 6319-6326	13	22
452	Improving the intrinsic thermal stability of the MAPbI perovskite by incorporating cesium 5-aminovaleric acetate.. <i>RSC Advances</i> , <b>2018</b> , 8, 14991-14994	3.7	6
451	Interfacial benzenethiol modification facilitates charge transfer and improves stability of cm-sized metal halide perovskite solar cells with up to 20% efficiency. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1880-1889	35.4	114
450	Molecular Engineering of Zinc-Porphyrin Sensitisers for p-Type Dye-Sensitised Solar Cells. <i>ChemPlusChem</i> , <b>2018</b> , 83, 711-720	2.8	8
449	Microstructure and thermal shock behavior of sol-gel introduced ZrB <sub>2</sub> reinforced SiBCN matrix. <i>Journal of Sol-Gel Science and Technology</i> , <b>2018</b> , 86, 365-373	2.3	5
448	Efficient and Stable Inverted Planar Perovskite Solar Cells Using a Triphenylamine Hole-Transporting Material. <i>ChemSusChem</i> , <b>2018</b> , 11, 1467-1473	8.3	38
447	Low-Temperature Presynthesized Crystalline Tin Oxide for Efficient Flexible Perovskite Solar Cells and Modules. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 14922-14929	9.5	67
446	Inverted perovskite solar cells with high fill-factors featuring chemical bath deposited mesoporous NiO hole transporting layers. <i>Nano Energy</i> , <b>2018</b> , 49, 163-171	17.1	62
445	Spray deposition of AgBiS <sub>2</sub> and Cu <sub>3</sub> BiS <sub>3</sub> thin films for photovoltaic applications. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2483-2494	7.1	36
444	High-throughput method to deposit continuous composition spread Sb <sub>2</sub> (S <sub>1-x</sub> Te <sub>x</sub> ) <sub>3</sub> thin film for photovoltaic application. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2018</b> , 26, 281-290	6.8	37



443	Oxidation behavior of SiBCN-Zr composites at 1500 °C prepared by reactive spark plasma sintering. <i>Corrosion Science</i> , <b>2018</b> , 132, 293-299	6.8	10
442	Solution-processed Zn <sub>2</sub> SnO <sub>4</sub> electron transporting layer for efficient planar perovskite solar cells. <i>Materials Today Energy</i> , <b>2018</b> , 7, 260-266	7	25
441	An efficient, flexible perovskite solar module exceeding 8% prepared with an ultrafast PbI deposition rate. <i>Scientific Reports</i> , <b>2018</b> , 8, 442	4.9	27
440	Low-Cost N,N'-Bicarbazole-Based Dopant-Free Hole-Transporting Materials for Large-Area Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800538	21.8	77
439	Structural and Chemical Changes to CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Induced by Electron and Gallium Ion Beams. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800629	24	87
438	Self-Adhesive Macroporous Carbon Electrodes for Efficient and Stable Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802985	15.6	98
437	Influence of Hot Spot Heating on Stability of Large Size Perovskite Solar Module with a Power Conversion Efficiency of ~14%. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 3565-3570	6.1	9
436	Design and synthesis of dopant-free organic hole-transport materials for perovskite solar cells. <i>Chemical Communications</i> , <b>2018</b> , 54, 9571-9574	5.8	36
435	Enhanced Crystallinity of Low-Temperature Solution-Processed SnO <sub>2</sub> for Highly Reproducible Planar Perovskite Solar Cells. <i>ChemSusChem</i> , <b>2018</b> , 11, 2898-2903	8.3	21
434	High-capacity optical long data memory based on enhanced Young's modulus in nanoplasmonic hybrid glass composites. <i>Nature Communications</i> , <b>2018</b> , 9, 1183	17.4	36
433	Rapid preparation of conductive transparent films via solution printing of graphene precursor. <i>Thin Solid Films</i> , <b>2018</b> , 657, 24-31	2.2	11
432	Efficient and stable mixed perovskite solar cells using P3HT as a hole transporting layer. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 5733-5737	7.1	43
431	Slow Response of Carrier Dynamics in Perovskite Interface upon Illumination. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 31452-31461	9.5	35
430	Back-contact perovskite solar cells with honeycomb-like charge collecting electrodes. <i>Nano Energy</i> , <b>2018</b> , 50, 710-716	17.1	34
429	4-tert-Butylpyridine Free Hole Transport Materials for Efficient Perovskite Solar Cells: A New Strategy to Enhance the Environmental and Thermal Stability. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1677-1682	20.1	67
428	CsPb <sub>0.9</sub> Sn <sub>0.1</sub> Br <sub>2</sub> Based All-Inorganic Perovskite Solar Cells Exhibit Improved Efficiency and Stability. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2018</b> , 34, 449-450	3.8	2
427	Stacking n-type layers: Effective route towards stable, efficient and hysteresis-free planar perovskite solar cells. <i>Nano Energy</i> , <b>2018</b> , 44, 34-42	17.1	47
426	Alleviate the hysteresis of carbon-based perovskite solar cells introducing additional methylammonium chloride into MAPbI <sub>3</sub> precursor. <i>RSC Advances</i> , <b>2018</b> , 8, 35157-35161	3.7	13

425	Suppressed hysteresis and enhanced performance of triple cation perovskite solar cell with chlorine incorporation. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 13157-13161	7.1	17
424	Effect of Grain Cluster Size on Back-Contact Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1805098	15.6	28
423	Large-area perovskite solar cells with CsxFA1 <sub>3</sub> PbI <sub>3</sub> Br thin films deposited by a vapor-solid reaction method. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 21143-21148	13	47
422	Recovering MAPbI <sub>3</sub> -Based Perovskite Films From Water-Caused Permanent Degradations by Dipping in MAI Solution. <i>IEEE Journal of Photovoltaics</i> , <b>2018</b> , 8, 1692-1700	3.7	1
421	Universal passivation strategy to slot-die printed SnO for hysteresis-free efficient flexible perovskite solar module. <i>Nature Communications</i> , <b>2018</b> , 9, 4609	17.4	392
420	Sequentially Reinforced Additive Coating for Transparent and Durable Superhydrophobic Glass. <i>Langmuir</i> , <b>2018</b> , 34, 11316-11324	4	19
419	Chemical Dopant Engineering in Hole Transport Layers for Efficient Perovskite Solar Cells: Insight into the Interfacial Recombination. <i>ACS Nano</i> , <b>2018</b> , 12, 10452-10462	16.7	50
418	Highly Efficient Blue-Emitting Bi-Doped Cs <sub>2</sub> SnCl <sub>6</sub> Perovskite Variant: Photoluminescence Induced by Impurity Doping. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1801131	15.6	239
417	An optical fibre-based sensor for the detection of gaseous ammonia with methylammonium lead halide perovskite. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 6988-6995	7.1	39
416	Photonics and Optoelectronics of 2D Metal-Halide Perovskites. <i>Small</i> , <b>2018</b> , 14, e1800682	11	128
415	Molecular Engineering of Zinc-Porphyrin Sensitisers for p-Type Dye-Sensitised Solar Cells. <i>ChemPlusChem</i> , <b>2018</b> , 83, 547	2.8	
414	Rationally Induced Interfacial Dipole in Planar Heterojunction Perovskite Solar Cells for Reduced J <sub>V</sub> Hysteresis. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800568	21.8	19
413	Acoustic-optical phonon up-conversion and hot-phonon bottleneck in lead-halide perovskites. <i>Nature Communications</i> , <b>2017</b> , 8, 14120	17.4	245
412	Influence of sol-gel derived ZrB <sub>2</sub> additions on microstructure and mechanical properties of SiBCN composites. <i>Ceramics International</i> , <b>2017</b> , 43, 4372-4378	5.1	21
411	Influence of Fullerene Acceptor on the Performance, Microstructure, and Photophysics of Low Bandgap Polymer Solar Cells. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1602197	21.8	34
410	Effect of the Microstructure of the Functional Layers on the Efficiency of Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2017</b> , 29, 1601715	24	80
409	Direct observation of intrinsic twin domains in tetragonal CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Nature Communications</i> , <b>2017</b> , 8, 14547	17.4	152
408	Nickel oxide nanoparticles for efficient hole transport in p-i-n and n-i-p perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6597-6605	13	159



407	Improved air stability of perovskite hybrid solar cells via blending poly(dimethylsiloxane)urea copolymers. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 5486-5494	13	39
406	High efficiency solid-state dye-sensitized solar cells using a cobalt(II/III) redox mediator. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 4875-4883	7.1	10
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266	Organic Sensitizers with Pyridine Ring Anchoring Group for p-Type Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 16433-16440	3.8	61
265	Synthesis and characterization of CuAlO(2) and AgAlO(2) delafossite oxides through low-temperature hydrothermal methods. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 4106-16	5.1	58
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7	Oxidation Behaviour of Zirconia-Sialon Composites. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 287, 527		
6	Nitrogen-Containing Tetragonal Zirconia. <i>Journal of the American Ceramic Society</i> , <b>1991</b> , 74, 1135-1138	3.8	57
5	Al-Containing Porous Titanium Dioxide Networks: Sol-Gel Synthesis within Agarose Gel Template and Photocatalytic Activity		3
4	A novel dopant for spiro-OMeTAD towards efficient and stable perovskite solar cells. <i>Science China Materials</i> , 1	7.1	2
3	Toward Commercialization of Efficient and Stable Perovskite Solar Modules. <i>Solar Rrl</i> , 2100600	7.1	3
2	Nitrogen-doped tin oxide electron transport layer for stable perovskite solar cells with efficiency over 23%		9
1	Impact of Nickel Oxide/Perovskite Interfacial Contact on the Crystallization and Photovoltaic Performance of Perovskite Solar Cells. <i>Solar Rrl</i> , 2200232	7.1	2