

# Shengzhong Frank Liu

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/5429361/shengzhong-frank-liu-publications-by-year.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

450  
papers

23,856  
citations

81  
h-index

137  
g-index

481  
ext. papers

29,790  
ext. citations

11.6  
avg, IF

7.71  
L-index

#	Paper	IF	Citations
450	Perovskite Quantum Dots in Solar Cells.. <i>Advanced Science</i> , <b>2022</b> , e2104577	13.6	8
449	Highly Efficient and Stable CsPbTh (Th = I, Br, Cl) Perovskite Solar Cells by Combinational Passivation Strategy.. <i>Advanced Science</i> , <b>2022</b> , e2105103	13.6	4
448	2D-CN encapsulated perovskite nanocrystals for efficient photo-assisted thermocatalytic CO reduction.. <i>Chemical Science</i> , <b>2022</b> , 13, 1335-1341	9.4	7
447	Unveiling the effect of interstitial dopants on CO <sub>2</sub> activation over CsPbBr <sub>3</sub> catalyst for efficient photothermal CO <sub>2</sub> reduction. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 135071	14.7	2
446	Imidazolium-based ionic liquid for stable and highly efficient black-phase formamidinium-based perovskite solar cell. <i>Chemical Engineering Journal</i> , <b>2022</b> , 434, 134759	14.7	1
445	Surface reconstruction strategy improves the all-inorganic CsPbI <sub>2</sub> Br <sub>2</sub> based perovskite solar cells and photodetectors performance. <i>Nano Energy</i> , <b>2022</b> , 94, 106960	17.1	8
444	Polarity regulation for stable 2D-perovskite-encapsulated high-efficiency 3D-perovskite solar cells. <i>Nano Energy</i> , <b>2022</b> , 95, 106965	17.1	6
443	Post-treatment by an ionic tetrabutylammonium hexafluorophosphate for improved efficiency and stability of perovskite solar cells. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 64, 8-15	12	2
442	Lead-free molecular one-dimensional perovskite for efficient X-ray detection. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 64, 209-213	12	3
441	Graded 2D/3D (CF <sub>3</sub> -PEA) <sub>2</sub> FA <sub>0.85</sub> MA <sub>0.15</sub> Pb <sub>2</sub> I <sub>7</sub> /FA <sub>0.85</sub> MA <sub>0.15</sub> Pb <sub>3</sub> I <sub>3</sub> heterojunction for stable perovskite solar cell with an efficiency over 23.0%. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 65, 480-489	12	11
440	Intermediate phase engineering of halide perovskites for photovoltaics. <i>Joule</i> , <b>2022</b> , 6, 315-339	27.8	12
439	Recent Developments in Upscalable Printing Techniques for Perovskite Solar Cells.. <i>Advanced Science</i> , <b>2022</b> , e2200308	13.6	4
438	Utilizing the Energy Transfer of Ce <sup>4+</sup> and Ce <sup>3+</sup> to Boost the Luminescence Quantum Efficiency up to 100% in Borate Glass. <i>Journal of Physical Chemistry C</i> , <b>2022</b> , 126, 5838-5846	3.8	0
437	Wide-Bandgap Organic-Inorganic Lead Halide Perovskite Solar Cells.. <i>Advanced Science</i> , <b>2022</b> , e2105085	13.6	9
436	In Situ Study of Molecular Aggregation in Conjugated Polymer/Elastomer Blends toward Stretchable Electronics. <i>Macromolecules</i> , <b>2022</b> , 55, 297-308	5.5	3
435	Ionic-Liquid-Perovskite Capping Layer for Stable 24.33%-Efficient Solar Cell. <i>Advanced Energy Materials</i> , <b>2022</b> , 12, 2103491	21.8	19
434	Record-Efficiency Flexible Perovskite Solar Cells Enabled by Multifunctional Organic Ions Interface Passivation.. <i>Advanced Materials</i> , <b>2022</b> , e2201681	24	39

433	Recent Progress of Electrode Materials for Flexible Perovskite Solar Cells.. <i>Nano-Micro Letters</i> , <b>2022</b> , 14, 117	19.5	10
432	Flexible perovskite solar cells: Material selection and structure design. <i>Applied Physics Reviews</i> , <b>2022</b> , 9, 021307	17.3	4
431	Ionic liquid treatment for highest-efficiency ambient printed stable all-inorganic CsPbI perovskite solar cells.. <i>Advanced Materials</i> , <b>2021</b> , e2106750	24	19
430	Unraveling Passivation Mechanism of Imidazolium-Based Ionic Liquids on Inorganic Perovskite to Achieve Near-Record-Efficiency CsPbI <sub>3</sub> Solar Cells. <i>Nano-Micro Letters</i> , <b>2021</b> , 14, 7	19.5	11
429	Effective surface passivation with 4-bromo-benzonitrile to enhance the performance of perovskite solar cells. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 17089-17098	7.1	0
428	Flexible Diodes/Transistors Based on Tunable p-n-Type Semiconductivity in Graphene/Mn-Co-Ni-O Nanocomposites. <i>Research</i> , <b>2021</b> , 2021, 9802795	7.8	1
427	N-Type Surface Design for p-Type CZTSSe Thin Film to Attain High Efficiency. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104330	24	10
426	Graphene/MCN pn-junction for ultrafast flexible ultraviolet detector. <i>MRS Communications</i> , <b>2021</b> , 11, 862	2.7	
425	Centimeter-Sized Molecular Perovskite Crystal for Efficient X-Ray Detection. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100691	15.6	11
424	Photogenerated Charge Separation between Polar Crystal Facets Under a Spontaneous Electric Field. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001898	8.1	2
423	Film Formation Control for High Performance Dion-Jacobson 2D Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002733	21.8	20
422	In-Situ Hot Oxygen Cleansing and Passivation for All-Inorganic Perovskite Solar Cells Deposited in Ambient to Breakthrough 19% Efficiency. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101568	15.6	17
421	Hole-Storage Enhanced a-Si Photocathodes for Efficient Hydrogen Production. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 12073-12079	3.6	0
420	Hole-Storage Enhanced a-Si Photocathodes for Efficient Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 11966-11972	16.4	4
419	Versatile Bidentate Chemical Passivation on a Cesium Lead Inorganic Perovskite for Efficient and Stable Photovoltaics. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 4021-4028	6.1	6
418	Simultaneous dual-interface and bulk defect passivation for high-efficiency and stable CsPbI <sub>2</sub> Br perovskite solar cells. <i>Journal of Power Sources</i> , <b>2021</b> , 492, 229580	8.9	7
417	Synergistic Effect of RbBr Interface Modification on Highly Efficient and Stable Perovskite Solar Cells. <i>ACS Omega</i> , <b>2021</b> , 6, 13766-13773	3.9	2
416	Enhanced Efficiency of Inorganic CsPbI <sub>3-x</sub> Br <sub>x</sub> Perovskite Solar Cell via Self-Regulation of Antisite Defects. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100403	21.8	18

4 <sup>15</sup>	40.1% Record Low-Light Solar-Cell Efficiency by Holistic Trap-Passivation using Micrometer-Thick Perovskite Film. <i>Advanced Materials</i> , <b>2021</b> , 33, e2100770	24	39
4 <sup>14</sup>	Effective Phase-Alignment for 2D Halide Perovskites Incorporating Symmetric Diammonium Ion for Photovoltaics. <i>Advanced Science</i> , <b>2021</b> , 8, e2001433	13.6	9
4 <sup>13</sup>	Stable 2D Alternating Cation Perovskite Solar Cells with Power Conversion Efficiency >19% via Solvent Engineering. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100286	7.1	14
4 <sup>12</sup>	Antisolvent- and Annealing-Free Deposition for Highly Stable Efficient Perovskite Solar Cells via Modified ZnO. <i>Advanced Science</i> , <b>2021</b> , 8, 2002860	13.6	15
4 <sup>11</sup>	Semitransparent Flexible Perovskite Solar Cells for Potential Greenhouse Applications. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100264	7.1	6
4 <sup>10</sup>	Samarium-Doped Nickel Oxide for Superior Inverted Perovskite Solar Cells: Insight into Doping Effect for Electronic Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102452	15.6	11
4 <sup>09</sup>	Enhanced Efficiency and Stability of All-Inorganic CsPbI Br Perovskite Solar Cells by Organic and Ionic Mixed Passivation. <i>Advanced Science</i> , <b>2021</b> , 8, e2101367	13.6	27
4 <sup>08</sup>	Tapered Coaxial Arrays for Photon- and Plasmon-Enhanced Light Harvesting in Perovskite Solar Cells: A Theoretical Investigation Using the Finite Element Method. <i>ChemPlusChem</i> , <b>2021</b> , 86, 858-864	2.8	3
4 <sup>07</sup>	28.3%-efficiency perovskite/silicon tandem solar cell by optimal transparent electrode for high efficient semitransparent top cell. <i>Nano Energy</i> , <b>2021</b> , 84, 105934	17.1	34
4 <sup>06</sup>	Deep-Level Transient Spectroscopy for Effective Passivator Selection in Perovskite Solar Cells to Attain High Efficiency over 23. <i>ChemSusChem</i> , <b>2021</b> , 14, 3182-3189	8.3	8
4 <sup>05</sup>	Fluoroethylamine Engineering for Effective Passivation to Attain 23.4% Efficiency Perovskite Solar Cells with Superior Stability. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101454	21.8	16
4 <sup>04</sup>	Flexible perovskite solar cells with simultaneously improved efficiency, operational stability, and mechanical reliability. <i>Joule</i> , <b>2021</b> , 5, 1587-1601	27.8	45
4 <sup>03</sup>	Green antisolvent additive engineering to improve the performance of perovskite solar cells. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 66, 1-1	12	7
4 <sup>02</sup>	Cation Engineering for Effective Defect Passivation to Improve Efficiency and Stability of FA0.5MA0.5PbI3 Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 7654-7660	6.1	2
4 <sup>01</sup>	Highly Luminescent Metal-Free Perovskite Single Crystal for Biocompatible X-Ray Detector to Attain Highest Sensitivity. <i>Advanced Materials</i> , <b>2021</b> , 33, e2102190	24	11
4 <sup>00</sup>	Single-Atom Doping and High-Valence State for Synergistic Enhancement of NiO Electrocatalytic Water Oxidation. <i>Small</i> , <b>2021</b> , 17, e2102448	11	7
399	Halide-modulated self-assembly of metal-free perovskite single crystals for bio-friendly X-ray detection. <i>Matter</i> , <b>2021</b> , 4, 2490-2507	12.7	12
398	Metal-doped Mo2C (metal = Fe, Co, Ni, Cu) as catalysts on TiO2 for photocatalytic hydrogen evolution in neutral solution. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 205-216	11.3	23

397	Multifunctional Enhancement for Highly Stable and Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005776	15.6	111
396	High-Efficiency Perovskite Solar Cells with Imidazolium-Based Ionic Liquid for Surface Passivation and Charge Transport. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 4238-4244	16.4	98
395	Sequential Formation of Tunable-Bandgap Mixed-Halide Lead-Based Perovskites: In Situ Investigation and Photovoltaic Devices. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000668	7.1	10
394	Hot Debate on Perovskite Solar Cells: Stability, Toxicity, High-Efficiency and Low Cost. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 53, 407-411	12	3
393	Superior photovoltaics/optoelectronics of two-dimensional halide perovskites. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 57, 69-82	12	9
392	ASnX3Better than Pb-based Perovskite. <i>Nano Select</i> , <b>2021</b> , 2, 159-186	3.1	1
391	Recent advances in resistive random access memory based on lead halide perovskite. <i>Information Materials</i> , <b>2021</b> , 3, 293-315	23.1	29
390	Breaking Platinum Nanoparticles to Single-Atomic Pt-C Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 2541-2547	16.4	22
389	Self-assembled CoOOH on TiO2 for enhanced photoelectrochemical water oxidation. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 512-521	12	6
388	Synergistically Enhanced Amplified Spontaneous Emission by Cd Doping and Cl-Assisted Crystallization. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001825	8.1	0
387	Breaking Platinum Nanoparticles to Single-Atomic Pt-C4 Co-catalysts for Enhanced Solar-to-Hydrogen Conversion. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 2571-2577	3.6	3
386	Improving Performance and Stability of Planar Perovskite Solar Cells Through Passivation Effect with Green Additives. <i>Solar Rrl</i> , <b>2021</b> , 5, 2000732	7.1	1
385	High-Efficiency Perovskite Solar Cells with Imidazolium-Based Ionic Liquid for Surface Passivation and Charge Transport. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 4284-4290	3.6	8
384	High Density and Unit Activity Integrated in Amorphous Catalysts for Electrochemical Water Splitting. <i>Small Structures</i> , <b>2021</b> , 2, 2000096	8.7	42
383	Nanoconfined Crystallization for High-Efficiency Inorganic Perovskite Solar Cells. <i>Small Science</i> , <b>2021</b> , 1, 2000054		11
382	Stability of the CsPbI3 perovskite: from fundamentals to improvements. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11124-11144	13	26
381	High-efficiency and thermal/moisture stable CsPbI2.84Br0.16 inorganic perovskite solar cells enabled by a multifunctional cesium trimethylacetate organic additive. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 4922-4932	13	4
380	High-throughput large-area vacuum deposition for high-performance formamidine-based perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 3035-3043	35.4	44

379	Unraveling the crucial role of spacer ligands in tuning the contact properties of metal-2D perovskite interfaces. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 8489-8495	7.1	1
378	Metal-Free Organic Halide Perovskite: A New Class for Next Optoelectronic Generation Devices. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003331	21.8	11
377	Triple-Cation and Mixed-Halide Perovskite Single Crystal for High-Performance X-ray Imaging. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006010	24	64
376	Dual-Interface Modification of CsPbI <sub>2</sub> Br <sub>2</sub> Solar Cells with Improved Efficiency and Stability. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2001994	4.6	6
375	Molecular Engineering for Two-Dimensional Perovskites with Photovoltaic Efficiency Exceeding 18%. <i>Matter</i> , <b>2021</b> , 4, 582-599	12.7	46
374	Perovskite Solar Cells toward Eco-Friendly Printing. <i>Research</i> , <b>2021</b> , 2021, 9671892	7.8	8
373	Inch-sized high-quality perovskite single crystals by suppressing phase segregation for light-powered integrated circuits. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	26
372	Defect Engineering in Earth-Abundant Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Photovoltaic Materials via Ga <sup>3+</sup> -Doping for over 12% Efficient Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2010325	15.6	28
371	van der Waals Interaction-Induced Tunable Schottky Barriers in Metal-2D Perovskite Contacts. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 1718-1725	6.4	2
370	Dual interfacial engineering for efficient Cs <sub>2</sub> AgBiBr <sub>6</sub> based solar cells. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 53, 372-378	12	19
369	Enabling Solar Hydrogen Production over Selenium: Surface State Passivation and Cocatalyst Decoration. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 9923-9931	8.3	2
368	Room-temperature sputtered-SnO <sub>2</sub> modified anode toward efficient TiO <sub>2</sub> -based planar perovskite solar cells. <i>Science China Technological Sciences</i> , <b>2021</b> , 64, 1995-2002	3.5	1
367	An in-situ defect passivation through a green anti-solvent approach for high-efficiency and stable perovskite solar cells. <i>Science Bulletin</i> , <b>2021</b> , 66, 1419-1428	10.6	7
366	-Phenylenediammonium as a New Spacer for Dion-Jacobson Two-Dimensional Perovskites. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12063-12073	16.4	18
365	p-Type Carbon Dots for Effective Surface Optimization for Near-Record-Efficiency CsPbI <sub>2</sub> Br Solar Cells. <i>Small</i> , <b>2021</b> , 17, e2102272	11	10
364	Secondary crystallization strategy for highly efficient inorganic CsPbI <sub>2</sub> Br perovskite solar cells with efficiency approaching 17%. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 63, 558-558	12	7
363	A Special Additive Enables All Cations and Anions Passivation for Stable Perovskite Solar Cells with Efficiency over 23. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 169	19.5	29
362	Pyrenesulfonic Acid Sodium Salt for Effective Bottom-Surface Passivation to Attain High Performance of Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2021</b> , 5, 2100416	7.1	2

361	Defects in CsPbX Perovskite: From Understanding to Effective Manipulation for High-Performance Solar Cells.. <i>Small Methods</i> , <b>2021</b> , 5, e2100725	12.8	11
360	Molten-Salt-Assisted CsPbI Perovskite Crystallization for Nearly 20%-Efficiency Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103770	24	21
359	Rational Surface-Defect Control via Designed Passivation for High-Efficiency Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 23164-23170	16.4	50
358	Interfaces and Interfacial Layers in Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26440-26453	16.4	16
357	Rational Surface-Defect Control via Designed Passivation for High-Efficiency Inorganic Perovskite Solar Cells. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 23348	3.6	16
356	IrO @In O Heterojunction from Individually Crystallized Oxides for Weak-Light-Promoted Electrocatalytic Water Oxidation. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26790-26797	16.4	12
355	Dual Passivation of Perovskite and SnO for High-Efficiency MAPbI Perovskite Solar Cells. <i>Advanced Science</i> , <b>2021</b> , 8, 2001466	13.6	25
354	Inner Strain Regulation in Perovskite Single Crystals through Fine-Tuned Halide Composition. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 1741-1750	3.5	7
353	A review on the stability of inorganic metal halide perovskites: challenges and opportunities for stable solar cells. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 2090-2113	35.4	63
352	Increasing gas sensitivity of Co3O4 octahedra by tuning Co-Co3O4 (111) surface structure and sensing mechanism of 3-coordinated Co atom as an active center. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 8852-8864	2.1	2
351	Centimeter-Sized Single Crystal of Two-Dimensional Halide Perovskites Incorporating Straight-Chain Symmetric Diammonium Ion for X-Ray Detection. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14896-14902	16.4	58
350	2D-3D CsPbI <sub>2</sub> Cl-CsPbI <sub>2</sub> Br Mixed-Dimensional Films for All-Inorganic Perovskite Solar Cells with Enhanced Efficiency and Stability. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 4138-4146	6.4	26
349	Improved Interface Contact for Highly Stable All-Inorganic CsPbI <sub>2</sub> Br Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5173-5181	6.1	12
348	Nucleation-controlled growth of superior lead-free perovskite CsBiI single-crystals for high-performance X-ray detection. <i>Nature Communications</i> , <b>2020</b> , 11, 2304	17.4	139
347	Mn Doping of CsPbI <sub>3</sub> Film Towards High-Efficiency Solar Cell. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5196-5197	6.5	25
346	Inch-Size 0D-Structured Lead-Free Perovskite Single Crystals for Highly Sensitive Stable X-Ray Imaging. <i>Matter</i> , <b>2020</b> , 3, 180-196	12.7	90
345	Perspective on the imaging device based on perovskite materials. <i>Journal of Semiconductors</i> , <b>2020</b> , 41, 050401	2.3	4
344	Solvent Engineering Using a Volatile Solid for Highly Efficient and Stable Perovskite Solar Cells. <i>Advanced Science</i> , <b>2020</b> , 7, 1903250	13.6	29

343	Fabrication of nanoporous Ni and NiO via a dealloying strategy for water oxidation catalysis. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 50, 125-134	12	14
342	Large and Dense Organic-Inorganic Hybrid Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Wafer Fabricated by One-Step Reactive Direct Wafer Production with High X-ray Sensitivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 16592-16600	9.5	50
341	Photo-Redeposition Synthesis of Bimetal Pt/Cu Co-catalysts for TiO <sub>2</sub> Photocatalytic Solar-Fuel Production. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 6055-6064	8.3	21
340	Efficient perovskite solar cells via surface passivation by a multifunctional small organic ionic compound. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 8313-8322	13	41
339	Unveiling the Effects of Hydrolysis-Derived DMAI/DMAPI Intermediate Compound on the Performance of CsPbI <sub>3</sub> Solar Cells. <i>Advanced Science</i> , <b>2020</b> , 7, 1902868	13.6	54
338	Direct Growth of Pyramid-Textured Perovskite Single Crystals: A New Strategy for Enhanced Optoelectronic Performance. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002742	15.6	7
337	Low-Temperature Crystallization of CsPbBr <sub>2</sub> Perovskite for High Performance Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000254	7.1	14
336	Large Lead-Free Perovskite Single Crystal for High-Performance Coplanar X-Ray Imaging Applications. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 2000814	8.1	36
335	Recent progress of two-dimensional lead halide perovskite single crystals: Crystal growth, physical properties, and device applications. <i>EcoMat</i> , <b>2020</b> , 2, e12036	9.4	36
334	Deep-Ultraviolet Photoactivation-Assisted Contact Engineering Toward High-Efficiency and Stable All-Inorganic CsPbI <sub>2</sub> Br Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 2000001	7.1	25
333	Controlled n-Doping in Air-Stable CsPbI <sub>2</sub> Br Perovskite Solar Cells with a Record Efficiency of 16.79%. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1909972	15.6	173
332	Anthradithiophene based hole-transport material for efficient and stable perovskite solar cells. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 48, 293-298	12	9
331	Facile synthesis of Lucky clover hole-transport material for efficient and stable large-area perovskite solar cells. <i>Journal of Power Sources</i> , <b>2020</b> , 454, 227938	8.9	7
330	Triphenylamine-based hole transporting materials with thiophene-derived bridges for perovskite solar cells. <i>Synthetic Metals</i> , <b>2020</b> , 261, 116323	3.6	3
329	Room-Temperature Partial Conversion of FAPbI <sub>3</sub> Perovskite Phase via PbI <sub>2</sub> Solvation Enables High-Performance Solar Cells. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1907442	15.6	27
328	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
327	Superior Textured Film and Process Tolerance Enabled by Intermediate-State Engineering for High-Efficiency Perovskite Solar Cells. <i>Advanced Science</i> , <b>2020</b> , 7, 1903009	13.6	16
326	Enabling Unassisted Solar Water Splitting by Single-Junction Amorphous Silicon Photoelectrodes. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4629-4637	6.1	6



325	Extrinsic Ion Distribution Induced Field Effect in CsPbI <sub>3</sub> Perovskite Solar Cells. <i>Small</i> , <b>2020</b> , 16, e19072831	32
324	High-Efficiency Perovskite Solar Cells Enabled by Anatase TiO <sub>2</sub> Nanopyramid Arrays with an Oriented Electric Field. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 11969-11976	16.4 44
323	High detectivity photodetectors based on perovskite nanowires with suppressed surface defects. <i>Photonics Research</i> , <b>2020</b> , 8, 1862	6 12
322	Fabrication of efficient CsPbBr <sub>3</sub> perovskite solar cells by single-source thermal evaporation. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 818, 152903	5.7 32
321	Improve the oxide/perovskite heterojunction contact for low temperature high efficiency and stable all-inorganic CsPbI <sub>2</sub> Br perovskite solar cells. <i>Nano Energy</i> , <b>2020</b> , 67, 104241	17.1 68
320	27%-Efficiency Four-Terminal Perovskite/Silicon Tandem Solar Cells by Sandwiched Gold Nanomesh. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908298	15.6 62
319	Ambient blade coating of mixed cation, mixed halide perovskites without dripping: in situ investigation and highly efficient solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1095-1104	13 49
318	Novel inorganic electron transport layers for planar perovskite solar cells: Progress and prospective. <i>Nano Energy</i> , <b>2020</b> , 68, 104289	17.1 45
317	Reply to Comment on Zero-thermal-quenching and photoluminescence tuning with the assistance of carriers from defect cluster traps. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 1153-1156	7.1
316	Chlorine-modified SnO <sub>2</sub> electron transport layer for high-efficiency perovskite solar cells. <i>Information Materials</i> , <b>2020</b> , 2, 401-408	23.1 30
315	NaCl-assisted defect passivation in the bulk and surface of TiO <sub>2</sub> enhancing efficiency and stability of planar perovskite solar cells. <i>Journal of Power Sources</i> , <b>2020</b> , 448, 227586	8.9 17
314	Improvement of Colloidal Characteristics in a Precursor Solution by a PBI-(DMSO) Complex for Efficient Nonstoichiometrically Prepared CsPbI <sub>3</sub> Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 48756-48764	9.5 3
313	High-Pressure Nitrogen-Extraction and Effective Passivation to Attain Highest Large-Area Perovskite Solar Module Efficiency. <i>Advanced Materials</i> , <b>2020</b> , 32, e2004979	24 65
312	Beach-Chair-Shaped Energy Band Alignment for High-Performance CsPbI <sub>3</sub> Solar Cells. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100180	6.1 18
311	Polymeric room-temperature molten salt as a multifunctional additive toward highly efficient and stable inverted planar perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2020</b> , 13, 5068-5079	35.4 61
310	2D Perovskite Single Crystals with Suppressed Ion Migration for High-Performance Planar-Type Photodetectors. <i>Small</i> , <b>2020</b> , 16, e2003145	11 30
309	Morphology Evolution of a High-Efficiency PSC by Modulating the Vapor Process. <i>Small</i> , <b>2020</b> , 16, e2003582	11
308	The Possible Side Reaction in the Annealing Process of Perovskite Layers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 35043-35048	9.5 3

307	Surface Engineering to Reduce the Interfacial Resistance for Enhanced Photocatalytic Water Oxidation. <i>ACS Catalysis</i> , <b>2020</b> , 10, 8742-8750	13.1	15
306	Defect suppression in multinary chalcogenide photovoltaic materials derived from kesterite: progress and outlook. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 24920-24942	13	18
305	A temperature gradient-induced directional growth of a perovskite film. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17019-17024	13	2
304	2D Cs <sub>2</sub> PbI <sub>2</sub> Cl <sub>2</sub> Nanosheets for Holistic Passivation of Inorganic CsPbI <sub>2</sub> Br Perovskite Solar Cells for Improved Efficiency and Stability. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002882	21.8	58
303	Ultrastable Perovskite-Zeolite Composite Enabled by Encapsulation and In Situ Passivation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 23100-23106	16.4	32
302	Cd-Doped Triple-Cation Perovskite Thin Films with a 20 ns Carrier Lifetime. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 22011-22018	3.8	9
301	Metal-Free Halide Perovskite Single Crystals with Very Long Charge Lifetimes for Efficient X-ray Imaging. <i>Advanced Materials</i> , <b>2020</b> , 32, e2003353	24	33
300	Printable CsPbI Perovskite Solar Cells with PCE of 19% via an Additive Strategy. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001243	24	88
299	Ultrastable Perovskite-Zeolite Composite Enabled by Encapsulation and In Situ Passivation. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 23300-23306	3.6	6
298	Interface Modification of a Perovskite/Hole Transport Layer with Tetraphenyldibenzoperiflanthene for Highly Efficient and Stable Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 45073-45082	9.5	6
297	Verringerung schädlicher Defekte für leistungsstarke Metallhalogenid-Perowskit-Solarzellen. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 6740-6764	3.6	7
296	Reducing Detrimental Defects for High-Performance Metal Halide Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6676-6698	16.4	171
295	Precursor Engineering for Ambient-Compatible Antisolvent-Free Fabrication of High-Efficiency CsPbI <sub>2</sub> Br Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000691	21.8	68
294	High-Efficiency Perovskite Solar Cells Enabled by Anatase TiO <sub>2</sub> Nanopyramid Arrays with an Oriented Electric Field. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 12067-12074	3.6	5
293	Highly stable and efficient perovskite solar cells produced via high-boiling point solvents and additive engineering synergistically. <i>Science China Chemistry</i> , <b>2020</b> , 63, 818-826	7.9	7
292	Centimeter-Sized Single Crystal of Two-Dimensional Halide Perovskites Incorporating Straight-Chain Symmetric Diammonium Ion for X-Ray Detection. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 15006-15012	3.6	7
291	A Novel Anion Doping for Stable CsPbI <sub>2</sub> Br Perovskite Solar Cells with an Efficiency of 15.56% and an Open Circuit Voltage of 1.30 V. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902279	21.8	105
290	Direct-Indirect Transition of Pressurized Two-Dimensional Halide Perovskite: Role of Benzene Ring Stack Ordering. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 5687-5693	6.4	12

289	Scalable Ambient Fabrication of High-Performance CsPbI <sub>2</sub> Br Solar Cells. <i>Joule</i> , <b>2019</b> , 3, 2485-2502	27.8	94
288	Interfacial Engineering at the 2D/3D Heterojunction for High-Performance Perovskite Solar Cells. <i>Nano Letters</i> , <b>2019</b> , 19, 7181-7190	11.5	110
287	Photoelectrochemical CO <sub>2</sub> reduction to adjustable syngas on grain-boundary-mediated a-Si/TiO <sub>2</sub> /Au photocathodes with low onset potentials. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 923-928	35.4	74
286	A straightforward chemical approach for excellent InS electron transport layer for high-efficiency perovskite solar cells.. <i>RSC Advances</i> , <b>2019</b> , 9, 884-890	3.7	17
285	NbF <sub>5</sub> : A Novel Phase Stabilizer for FA-Based Perovskite Solar Cells with High Efficiency. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807850	15.6	97
284	Perovskite-a Perfect Top Cell for Tandem Devices to Break the S-Q Limit. <i>Advanced Science</i> , <b>2019</b> , 6, 1801704	17.04	52
283	Impact of the Solvation State of Lead Iodide on Its Two-Step Conversion to MAPbI <sub>3</sub> : An In Situ Investigation. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807544	15.6	36
282	Chlorine doping for black CsPbI <sub>3</sub> solar cells with stabilized efficiency beyond 16%. <i>Nano Energy</i> , <b>2019</b> , 58, 175-182	17.1	124
281	Two-dimensional (PEA) <sub>2</sub> PbBr <sub>4</sub> perovskite single crystals for a high performance UV-detector. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 1584-1591	7.1	81
280	First-Principles Study of Enhanced Out-of-Plane Transport Properties and Stability in Dion-Jacobson Two-Dimensional Perovskite Semiconductors for High-Performance Solar Cell Applications. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 3670-3675	6.4	30
279	Chemical Bath Deposition of Co-Doped TiO <sub>2</sub> Electron Transport Layer for Hysteresis-Suppressed High-Efficiency Planar Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900176	7.1	28
278	Single-crystalline lead halide perovskite wafers for high performance photodetectors. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 8357-8363	7.1	19
277	Comprehensive investigation of sputtered and spin-coated zinc oxide electron transport layers for highly efficient and stable planar perovskite solar cells. <i>Journal of Power Sources</i> , <b>2019</b> , 427, 223-230	8.9	14
276	Single atom tungsten doped ultrathin Ni(OH) <sub>2</sub> for enhanced electrocatalytic water oxidation. <i>Nature Communications</i> , <b>2019</b> , 10, 2149	17.4	210
275	Surface-Tension-Controlled Crystallization for High-Quality 2D Perovskite Single Crystals for Ultrahigh Photodetection. <i>Matter</i> , <b>2019</b> , 1, 465-480	12.7	134
274	Increasing Quantum Efficiency of Polymer Solar Cells with Efficient Exciton Splitting and Long Carrier Lifetime by Molecular Doping at Heterojunctions. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1356-1363	20.1	29
273	Hydrogenated nanotubes/nanowires assembled from TiO <sub>2</sub> nanoflakes with exposed {111} facets: excellent photo-catalytic CO <sub>2</sub> reduction activity and charge separation mechanism between (111) and () polar surfaces. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 14761-14775	13	26
272	Goldschmidt-rule-deviated perovskite CsPbI <sub>2</sub> Br <sub>2</sub> by barium substitution for efficient solar cells. <i>Nano Energy</i> , <b>2019</b> , 61, 165-172	17.1	66

271	Origin of enhanced stability in thiocyanate substituted $\text{FAPbI}_3$ analogues. <i>Science China Chemistry</i> , <b>2019</b> , 62, 866-874	7.9	7
270	Stable Efficiency Exceeding 20.6% for Inverted Perovskite Solar Cells through Polymer-Optimized PCBM Electron-Transport Layers. <i>Nano Letters</i> , <b>2019</b> , 19, 3313-3320	11.5	111
269	Double-Site $\text{NiW}$ Nanosheet for Best Alkaline HER Performance at High Current Density $>500 \text{ mA cm}^{-2}$ . <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900308	4.6	10
268	Anorganische $\text{CsPbX}_3$ -Perowskit-Solarzellen: Fortschritte und Perspektiven. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 15742-15765	3.6	15
267	All-Inorganic $\text{CsPbX}$ Perovskite Solar Cells: Progress and Prospects. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 15596-15618	16.4	272
266	Effect of TC(002) on the Output Current of a ZnO Thin-Film Nanogenerator and a New Piezoelectricity Mechanism at the Atomic Level. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 12656-12665 <sup>14</sup>	9.5	14
265	Novel Surface Passivation for Stable $\text{FA}_{0.85}\text{MA}_{0.15}\text{PbI}_3$ Perovskite Solar Cells with 21.6% Efficiency. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900072	7.1	49
264	Thermally stable methylammonium-free inverted perovskite solar cells with $\text{Zn}^{2+}$ doped $\text{CuGaO}_2$ as efficient mesoporous hole-transporting layer. <i>Nano Energy</i> , <b>2019</b> , 61, 148-157	17.1	61
263	Interface-Modification-Induced Gradient Energy Band for Highly Efficient $\text{CsPbI}_2\text{Br}$ Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803785	21.8	138
262	Interface engineering of low temperature processed all-inorganic $\text{CsPbI}_2\text{Br}$ perovskite solar cells toward PCE exceeding 14%. <i>Nano Energy</i> , <b>2019</b> , 60, 583-590	17.1	109
261	Low-Temperature Solution-Processed ZnO Electron Transport Layer for Highly Efficient and Stable Planar Perovskite Solar Cells with Efficiency Over 20%. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900096	7.1	52
260	Oxidation, reduction, and inert gases plasma-modified defects in $\text{TiO}_2$ as electron transport layer for planar perovskite solar cells. <i>Journal of CO2 Utilization</i> , <b>2019</b> , 32, 46-52	7.6	8
259	Improving sensing performance of the ZnO foam structure with exposed {001} facets by hydrogenation and sensing mechanism at molecule level. <i>Applied Surface Science</i> , <b>2019</b> , 479, 646-654	6.7	12
258	Water-Soluble Triazolium Ionic-Liquid-Induced Surface Self-Assembly to Enhance the Stability and Efficiency of Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1900417	15.6	102
257	Nitrogen-doped graphene quantum dots for 80% photoluminescence quantum yield for inorganic $\text{CsPbI}_3$ perovskite solar cells with efficiency beyond 16%. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5740-5747	13	73
256	$\text{CsPb}(\text{I Br})_2\text{B}$ solar cells. <i>Science Bulletin</i> , <b>2019</b> , 64, 1532-1539	10.6	92
255	Highly Efficient and Stable Planar Perovskite Solar Cells with Modulated Diffusion Passivation Toward High Power Conversion Efficiency and Ultrahigh Fill Factor. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900293	7.1	71
254	Scalable Fabrication of Metal Halide Perovskite Solar Cells and Modules. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2147-2167	20.1	110

253	Pseudohalide induced tunable electronic and excitonic properties in two-dimensional single-layer perovskite for photovoltaics and photoelectronic applications. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 36, 106-113	12	6
252	Metal Cations in Efficient Perovskite Solar Cells: Progress and Perspective. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902037	24	48
251	Highly efficient and stable planar CsPbI <sub>2</sub> Br perovskite solar cell with a new sensitive-dopant-free hole transport layer obtained via an effective surface passivation. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 201, 110052	6.4	30
250	Effective electron extraction from active layer for enhanced photodetection of photoconductive type detector with structure of Au/CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /Au. <i>Organic Electronics</i> , <b>2019</b> , 74, 197-203	3.5	4
249	Ligand-Size Related Dimensionality Control in Metal Halide Perovskites. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1830-1832	18.3	23
248	Abnormal absorption onset shift of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> film by adding PbBr <sub>2</sub> into its precursor and its effect on photovoltaic performance. <i>Journal of Power Sources</i> , <b>2019</b> , 437, 226914	8.9	4
247	Additive Engineering to Grow Micron-Sized Grains for Stable High Efficiency Perovskite Solar Cells. <i>Advanced Science</i> , <b>2019</b> , 6, 1901241	13.6	60
246	A High Mobility Conjugated Polymer Enables Air and Thermally Stable CsPbI <sub>2</sub> Br Perovskite Solar Cells with an Efficiency Exceeding 15%. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900311	6.8	39
245	Cesium Lead Mixed-Halide Perovskites for Low-Energy Loss Solar Cells with Efficiency Beyond 17%. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 6231-6238	9.6	50
244	Moisture-Induced Crystallinity Improvement for Efficient CsPbI <sub>2</sub> Br Perovskite Solar Cells with Excess Cesium Bromide. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 4587-4595	6.4	16
243	Interfacial TiO <sub>2</sub> atomic layer deposition triggers simultaneous crystallization control and band alignment for efficient CsPbI <sub>2</sub> Br perovskite solar cell. <i>Organic Electronics</i> , <b>2019</b> , 74, 103-109	3.5	21
242	Simultaneous Cesium and Acetate Coalloying Improves Efficiency and Stability of FA <sub>0.85</sub> MA <sub>0.15</sub> PbI <sub>3</sub> Perovskite Solar Cell with an Efficiency of 21.95%. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900220	7.1	50
241	Layer-Dependent Ultrahigh-Mobility Transport Properties in All-Inorganic Two-Dimensional Cs <sub>2</sub> PbI <sub>2</sub> Cl <sub>2</sub> and Cs <sub>2</sub> SnI <sub>2</sub> Cl <sub>2</sub> Perovskites. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 27978-27985	3.8	27
240	Compositional Control in 2D Perovskites with Alternating Cations in the Interlayer Space for Photovoltaics with Efficiency over 18. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903848	24	112
239	Fine Multi-Phase Alignments in 2D Perovskite Solar Cells with Efficiency over 17% via Slow Post-Annealing. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903889	24	106
238	Ruddlesden-Popper 2D Component to Stabilize $\delta$ -CsPbI <sub>3</sub> Perovskite Phase for Stable and Efficient Photovoltaics. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902529	21.8	74
237	Europium and Acetate Co-doping Strategy for Developing Stable and Efficient CsPbI <sub>2</sub> Br Perovskite Solar Cells. <i>Small</i> , <b>2019</b> , 15, e1904387	11	61
236	Photoassisted Hydrothermal Synthesis of IrO <sub>x</sub> /TiO <sub>2</sub> for Enhanced Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 17941-17949	8.3	14

235	Optical Management with Nanoparticles for a Light Conversion Efficiency Enhancement in Inorganic ECsPbI Solar Cells. <i>Nano Letters</i> , <b>2019</b> , 19, 1796-1804	11.5	45
234	Influence of Film Quality on Power Conversion Efficiency in Perovskite Solar Cells. <i>Coatings</i> , <b>2019</b> , 9, 622	2.9	5
233	Pseudohalide (SCN) <sup>-</sup> -Doped CsPbI <sub>3</sub> for high-performance solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 13736-13742	7.1	33
232	The humidity-insensitive fabrication of efficient CsPbI <sub>3</sub> solar cells in ambient air. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 26776-26784	13	35
231	Low-temperature-gradient crystallization for multi-inch high-quality perovskite single crystals for record performance photodetectors. <i>Materials Today</i> , <b>2019</b> , 22, 67-75	21.8	121
230	Fabrication of a High-Quality CuZnSn(S,Se) Absorber Layer via an Aqueous Solution Process and Application in Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 634-639	9.5	5
229	Two dimensional metal halide perovskites: Promising candidates for light-emitting diodes. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 37, 97-110	12	39
228	Record-Low-Threshold Lasers Based on Atomically Smooth Triangular Nanoplatelet Perovskite. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805553	15.6	37
227	PbTiO <sub>3</sub> as Electron-Selective Layer for High-Efficiency Perovskite Solar Cells: Enhanced Electron Extraction via Tunable Ferroelectric Polarization. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1806427	15.6	16
226	Room-Temperature Surface Sulfurization for High-Performance Kesterite CZTSe Solar Cells. <i>Solar Rrl</i> , <b>2019</b> , 3, 1800236	7.1	17
225	Nanodevices: Record-Low-Threshold Lasers Based on Atomically Smooth Triangular Nanoplatelet Perovskite (Adv. Funct. Mater. 2/2019). <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1970012	15.6	1
224	Dynamical Transformation of Two-Dimensional Perovskites with Alternating Cations in the Interlayer Space for High-Performance Photovoltaics. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 2684-2694	16.4	135
223	Flexible Perowskit-Solarzellen: Herstellung und Anwendungen. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 4512-4530	30	21
222	Recent Advances in Flexible Perovskite Solar Cells: Fabrication and Applications. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 4466-4483	16.4	183
221	Anti-solvent engineering for efficient semitransparent CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> perovskite solar cells for greenhouse applications. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 34, 12-19	12	37
220	P-type sub-tungsten-oxide based urchin-like nanostructure for superior room temperature alcohol sensor. <i>Applied Surface Science</i> , <b>2018</b> , 441, 277-284	6.7	17
219	Interface engineering of CsPbBr <sub>3</sub> /TiO <sub>2</sub> heterostructure with enhanced optoelectronic properties for all-inorganic perovskite solar cells. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 093901	3.4	50
218	Single-crystalline perovskite wafers with a Cr blocking layer for broad and stable light detection in a harsh environment.. <i>RSC Advances</i> , <b>2018</b> , 8, 14848-14853	3.7	4

217	g-C3N4 Loading Black Phosphorus Quantum Dot for Efficient and Stable Photocatalytic H2 Generation under Visible Light. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800668	15.6	192
216	Phase Transition Control for High Performance Ruddlesden-Popper Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707166	24	192
215	Controlled defects and enhanced electronic extraction in fluorine-incorporated zinc oxide for high-performance planar perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 182, 263-271	6.4	32
214	Ge quantum-dot enhanced c-Si solar cell for improved light trapping efficiency. <i>Solar Energy</i> , <b>2018</b> , 167, 102-107	6.8	6
213	Chelate-Pb Intermediate Engineering for High-Efficiency Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 14744-14750	9.5	12
212	Low-temperature and facile solution-processed two-dimensional TiS2 as an effective electron transport layer for UV-stable planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 9132-9138	13.56	56
211	Bifunctional Hydroxylamine Hydrochloride Incorporated Perovskite Films for Efficient and Stable Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 900-909	6.1	55
210	Flexible perovskite solar cells based on green, continuous roll-to-roll printing technology. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 971-989	12	40
209	All-Ambient Processed Binary CsPbBr-CsPbBr Perovskites with Synergistic Enhancement for High-Efficiency Cs-Pb-Br-Based Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 7145-7154	9.5	134
208	Stoichiometry control of sputtered zinc oxide films by adjusting Ar/O2 gas ratios as electron transport layers for efficient planar perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 178, 200-207	6.4	16
207	3D/2D Interface Profiling for Record Efficiency All-Inorganic CsPbBr2 Perovskite Solar Cells with Superior Stability. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703246	21.8	256
206	Shape- and Trap-Controlled Nanocrystals for Giant-Performance Improvement of All-Inorganic Perovskite Photodetectors. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1700363	3.1	23
205	Alkali Metal Doping for Improved CHNHPbI Perovskite Solar Cells. <i>Advanced Science</i> , <b>2018</b> , 5, 1700131	13.6	160
204	Electronic and magnetic behaviors of B, N, and 3d transition metal substitutions in germanium carbide monolayer. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 451, 799-807	2.8	10
203	̳-Graphene Crosslinked CsPbI3 Quantum Dots for High Efficiency Solar Cells with Much Improved Stability. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800007	21.8	167
202	Realizing efficient red thermally activated delayed fluorescence organic light-emitting diodes using phenoxazine/phenothiazine-phenanthrene hybrids. <i>Organic Electronics</i> , <b>2018</b> , 59, 32-38	3.5	23
201	High-Performance Planar Perovskite Solar Cells Using Low Temperature, Solution-Combustion-Based Nickel Oxide Hole Transporting Layer with Efficiency Exceeding 20%. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703432	21.8	209
200	Hydrogenated TiO2 nanosheet based flowerlike architectures: Enhanced sensing performances and sensing mechanism. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 749, 543-555	5.7	11

199	Interstitial Mn <sup>2+</sup> -Driven High-Aspect-Ratio Grain Growth for Low-Trap-Density Microcrystalline Films for Record Efficiency CsPbI <sub>2</sub> Br Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 970-978	20.1	285
198	Stable High-Performance Perovskite Solar Cells via Grain Boundary Passivation. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706576	24	505
197	Enhanced luminescence and tunable color of Sr <sub>8</sub> CaSc(PO <sub>4</sub> ) <sub>7</sub> :Eu <sup>2+</sup> , Ce <sup>3+</sup> , Mn <sup>2+</sup> phosphor by energy transfer between Ce <sup>3+</sup> -Eu <sup>2+</sup> -Mn <sup>2+</sup> . <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 731, 796-804	5.7	34
196	Path towards high-efficient kesterite solar cells. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 1040-1053	12	51
195	Polymer Doping for High-Efficiency Perovskite Solar Cells with Improved Moisture Stability. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1701757	21.8	233
194	Precursor Engineering for All-Inorganic CsPbI <sub>2</sub> Br Perovskite Solar Cells with 14.78% Efficiency. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1803269	15.6	206
193	Efficient planar CsPbBr <sub>3</sub> perovskite solar cells by dual-source vacuum evaporation. <i>Solar Energy Materials and Solar Cells</i> , <b>2018</b> , 187, 1-8	6.4	107
192	Synergistic enhancement of Cs and Br doping in formamidinium lead halide perovskites for high performance optoelectronics. <i>CrystEngComm</i> , <b>2018</b> , 20, 5510-5518	3.3	6
191	The sensing reaction on the Ni-NiO (111) surface at atomic and molecule level and migration of electron. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 273, 794-803	8.5	12
190	Heat Wave of Metal Halide Perovskite Solar Cells Continues in Phoenix. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1898-1903	20.1	5
189	Record Efficiency Stable Flexible Perovskite Solar Cell Using Effective Additive Assistant Strategy. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801418	24	286
188	Fe <sub>2</sub> O <sub>3</sub> /Cu <sub>3</sub> N <sub>4</sub> -Based Tight Heterojunction for Boosting Visible-Light-Driven Photocatalytic Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 10436-10444	8.3	49
187	Highly efficient perovskite solar cells based on a dopant-free conjugated DPP polymer hole transport layer: influence of solvent vapor annealing. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 2154-2159	5.8	15
186	Highly Efficient Ruddlesden-Popper Halide Perovskite PA <sub>2</sub> MA <sub>4</sub> Pb <sub>5</sub> I <sub>16</sub> Solar Cells. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 1975-1982	20.1	98
185	Phase Transition Control for High-Performance Blade-Coated Perovskite Solar Cells. <i>Joule</i> , <b>2018</b> , 2, 1313-1330	27.3	125
184	Graded Bandgap CsPbI <sub>2</sub> +Br <sub>1-x</sub> Perovskite Solar Cells with a Stabilized Efficiency of 14.4%. <i>Joule</i> , <b>2018</b> , 2, 1500-1510	27.8	249
183	Giant Phonon Tuning Effect via Pressure-Manipulated Polar Rotation in Perovskite MAPbI <sub>3</sub> . <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 3029-3034	6.4	13
182	High efficiency planar-type perovskite solar cells with negligible hysteresis using EDTA-complexed SnO. <i>Nature Communications</i> , <b>2018</b> , 9, 3239	17.4	721



181	Temperature-assisted crystallization for inorganic CsPbI <sub>2</sub> Br perovskite solar cells to attain high stabilized efficiency 14.81%. <i>Nano Energy</i> , <b>2018</b> , 52, 408-415	17.1	148
180	Zero-thermal-quenching and photoluminescence tuning with the assistance of carriers from defect cluster traps. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 10687-10692	7.1	23
179	Nitrogen-promoted molybdenum dioxide nanosheets for electrochemical hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12532-12540	13	29
178	Black Phosphorus-Based Compound with Few Layers for Photocatalytic Water Oxidation. <i>ChemCatChem</i> , <b>2018</b> , 10, 3424-3428	5.2	14
177	Thickness Influence on Optical and Electrical Properties of PbI <sub>2</sub> Films Prepared by Pulsed Laser Deposition. <i>Science of Advanced Materials</i> , <b>2018</b> , 10, 701-706	2.3	7
176	Graphdiyne Quantum Dots for Much Improved Stability and Efficiency of Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701117	4.6	61
175	Graphdiyne-WS <sub>2</sub> 2D-Nanohybrid electrocatalysts for high-performance hydrogen evolution reaction. <i>Carbon</i> , <b>2018</b> , 129, 228-235	10.4	93
174	WO <sub>3</sub> -SnO <sub>2</sub> nanosheet composites: Hydrothermal synthesis and gas sensing mechanism. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 736, 322-331	5.7	66
173	High-quality perovskite MAPbI <sub>3</sub> single crystals for broad-spectrum and rapid response integrate photodetector. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 722-727	12	51
172	Recent Progress in Single-Crystalline Perovskite Research Including Crystal Preparation, Property Evaluation, and Applications. <i>Advanced Science</i> , <b>2018</b> , 5, 1700471	13.6	158
171	Vapor-fumigation for record efficiency two-dimensional perovskite solar cells with superior stability. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3349-3357	35.4	65
170	High performance ambient-air-stable FAPbI <sub>3</sub> perovskite solar cells with molecule-passivated Ruddlesden-Popper/3D heterostructured film. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 3358-3366	35.4	154
169	<b>2018</b> ,		2
168	Magnetic Field Driven Larger Grain Growth for Perovskite Film with Enhanced Photovoltaic Performance <b>2018</b> ,		1
167	Multi-inch single-crystalline perovskite membrane for high-detectivity flexible photosensors. <i>Nature Communications</i> , <b>2018</b> , 9, 5302	17.4	136
166	Air-stable phosphorus-doped molybdenum nitride for enhanced electrocatalytic hydrogen evolution. <i>Communications Chemistry</i> , <b>2018</b> , 1,	6.3	26
165	Green Atmospheric Aqueous Solution Deposition for High Performance Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Thin Film Solar Cells. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800233	7.1	14
164	Gas-solid reaction based over one-micrometer thick stable perovskite films for efficient solar cells and modules. <i>Nature Communications</i> , <b>2018</b> , 9, 3880	17.4	82

163	Design of an Inorganic Mesoporous Hole-Transporting Layer for Highly Efficient and Stable Inverted Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1805660	24	139
162	Synergy of Hydrophobic Surface Capping and Lattice Contraction for Stable and High-Efficiency Inorganic CsPbI <sub>2</sub> Br Perovskite Solar Cells. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800216	7.1	53
161	Iodine-Optimized Interface for Inorganic CsPbI <sub>3</sub> Perovskite Solar Cell to Attain High Stabilized Efficiency Exceeding 14. <i>Advanced Science</i> , <b>2018</b> , 5, 1801123	13.6	76
160	In Situ Grain Boundary Modification via Two-Dimensional Nanoplates to Remarkably Improve Stability and Efficiency of Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 39802-39808 <sup>19</sup>	9.5	119
159	All-inorganic cesium lead iodide perovskite solar cells with stabilized efficiency beyond 15. <i>Nature Communications</i> , <b>2018</b> , 9, 4544	17.4	296
158	Quasi-Amorphous Metallic Nickel Nanopowder as an Efficient and Durable Electrocatalyst for Alkaline Hydrogen Evolution. <i>Advanced Science</i> , <b>2018</b> , 5, 1801216	13.6	22
157	Low Temperature Fabrication for High Performance Flexible CsPbI <sub>3</sub> Perovskite Solar Cells. <i>Advanced Science</i> , <b>2018</b> , 5, 1801117	13.6	71
156	Progress toward Stable Lead Halide Perovskite Solar Cells. <i>Joule</i> , <b>2018</b> , 2, 1961-1990	27.8	132
155	A Two-Stage Annealing Strategy for Crystallization Control of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Films toward Highly Reproducible Perovskite Solar Cells. <i>Small</i> , <b>2018</b> , 14, e1800181	11	16
154	CsPbCl <sub>3</sub> -Driven Low-Trap-Density Perovskite Grain Growth for >20% Solar Cell Efficiency. <i>Advanced Science</i> , <b>2018</b> , 5, 1800474	13.6	47
153	Improving the Quality of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Films via Chlorobenzene Vapor Annealing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1700959	1.6	9
152	A 1300 mm Ultrahigh-Performance Digital Imaging Assembly using High-Quality Perovskite Single Crystals. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707314	24	156
151	Low-Temperature-Processed CdS as the Electron Selective Layer in an Organometal Halide Perovskite Photovoltaic Device. <i>Particle and Particle Systems Characterization</i> , <b>2018</b> , 35, 1800137	3.1	4
150	Enhanced Visible-Light Photocatalytic H <sub>2</sub> Evolution in CuO/CuSe Multilayer Heterostructure Nanowires Having {111} Facets and Physical Mechanism. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 8019-8027	5.1	20
149	Exposed the mechanism of lead chloride dopant for high efficiency planar-structure perovskite solar cells. <i>Organic Electronics</i> , <b>2018</b> , 62, 499-504	3.5	5
148	In Situ Synthesis of Few-Layered g-C <sub>3</sub> N <sub>4</sub> with Vertically Aligned MoS <sub>2</sub> Loading for Boosting Solar-to-Hydrogen Generation. <i>Small</i> , <b>2018</b> , 14, 1703003	11	71
147	Enhancing the Sensing Properties of TiO <sub>2</sub> Nanosheets with Exposed {001} Facets by a Hydrogenation and Sensing Mechanism. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 1504-1510	5.1	41
146	Synthesis of a nano-sized hybrid C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> sample for enhanced and steady solar energy absorption and utilization. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 95-102	5.8	18

145	Investigation of the mechanism responsible for the photoluminescence enhancement with Li + co-doping in highly thermally stable white-emitting Sr <sub>8</sub> ZnSc(PO <sub>4</sub> ) <sub>7</sub> :Dy <sup>3+</sup> phosphor. <i>Journal of Luminescence</i> , <b>2017</b> , 187, 160-168	3.8	6
144	Monolayer-by-monolayer growth of platinum films on complex carbon fiber paper structure. <i>Applied Surface Science</i> , <b>2017</b> , 407, 386-390	6.7	8
143	Superior Cu <sub>2</sub> S/brass-mesh electrode in CdS quantum dot sensitized solar cells for dual-side illumination. <i>Materials Letters</i> , <b>2017</b> , 195, 100-103	3.3	8
142	Ge quantum dot enhanced hydrogenated amorphous silicon germanium solar cells on flexible stainless steel substrate. <i>Solar Energy</i> , <b>2017</b> , 144, 635-642	6.8	6
141	The photovoltaic effect in a [001] orientated ZnO thin film and its physical mechanism. <i>RSC Advances</i> , <b>2017</b> , 7, 9596-9604	3.7	6
140	Stable ultra-fast broad-bandwidth photodetectors based on $\text{CsPbI}_3$ perovskite and NaYF <sub>4</sub> :Yb,Er quantum dots. <i>Nanoscale</i> , <b>2017</b> , 9, 6278-6285	7.7	84
139	Epitaxial growth of large-area and highly crystalline anisotropic ReSe <sub>2</sub> atomic layer. <i>Nano Research</i> , <b>2017</b> , 10, 2732-2742	10	47
138	Organic-Inorganic Hybrid Perovskite with Controlled Dopant Modification and Application in Photovoltaic Device. <i>Small</i> , <b>2017</b> , 13, 1604153	11	42
137	Air and thermally stable perovskite solar cells with CVD-graphene as the blocking layer. <i>Nanoscale</i> , <b>2017</b> , 9, 8274-8280	7.7	49
136	P Doped MoO Nanosheets as Efficient and Stable Electrocatalysts for Hydrogen Evolution. <i>Small</i> , <b>2017</b> , 13, 1700441	11	70
135	Solution Coating of Superior Large-Area Flexible Perovskite Thin Films with Controlled Crystal Packing. <i>Advanced Optical Materials</i> , <b>2017</b> , 5, 1700102	8.1	31
134	Controllable synthesis of Ag-WO <sub>3</sub> core-shell nanospheres for light-enhanced gas sensors. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 251, 583-589	8.5	21
133	Effect of argon flow on promoting boron doping for in-situ grown silicon nitride thin films containing silicon quantum dots. <i>Nanotechnology</i> , <b>2017</b> , 28, 285202	3.4	
132	Highly thermally stable and emission color tunable borate glass for white-light-emitting diodes with zero organic resin. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 4011-4020	3.8	8
131	Enhanced sensing performance and sensing mechanism of hydrogenated NiO particles. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 250, 208-214	8.5	15
130	ITIC surface modification to achieve synergistic electron transport layer enhancement for planar-type perovskite solar cells with efficiency exceeding 20%. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 9514-9522	13	88
129	Room-Temperature Processed NbO as the Electron-Transporting Layer for Efficient Planar Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 23181-23188	9.5	100
128	Stable High-Performance Flexible Photodetector Based on Upconversion Nanoparticles/Perovskite Microarrays Composite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 19176-19183	9.5	61

127	Magnetic Field-Assisted Perovskite Film Preparation for Enhanced Performance of Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 21756-21762	9.5	20
126	Graphene-oxide doped PEDOT:PSS as a superior hole transport material for high-efficiency perovskite solar cell. <i>Organic Electronics</i> , <b>2017</b> , 48, 165-171	3.5	62
125	Energy-Down-Shift CsPbCl <sub>3</sub> :Mn Quantum Dots for Boosting the Efficiency and Stability of Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 1479-1486	20.1	178
124	Fe(III) doped NiS <sub>2</sub> nanosheet: a highly efficient and low-cost hydrogen evolution catalyst. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10173-10181	13	100
123	E-beam evaporated Nb <sub>2</sub> O <sub>5</sub> as an effective electron transport layer for large flexible perovskite solar cells. <i>Nano Energy</i> , <b>2017</b> , 36, 1-8	17.1	170
122	Improvement of crystallinity for poly-Si thin film by negative substrate bias at low temperature. <i>Thin Solid Films</i> , <b>2017</b> , 629, 90-96	2.2	4
121	Enhancing Efficiency and Stability of Perovskite Solar Cells through Nb-Doping of TiO at Low Temperature. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 10752-10758	9.5	150
120	Solution-Processed Nb:SnO Electron Transport Layer for Efficient Planar Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2421-2429	9.5	240
119	Recent Advances in Photoelectrochemical Applications of Silicon Materials for Solar-to-Chemicals Conversion. <i>ChemSusChem</i> , <b>2017</b> , 10, 4324-4341	8.3	57
118	Synthesis of Large-Size 1T' ReS Se Alloy Monolayer with Tunable Bandgap and Carrier Type. <i>Advanced Materials</i> , <b>2017</b> , 29, 1705015	24	80
117	Ag Nanoparticle Enhanced Flexible Thin-Film Silicon Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 3689-3694	1.3	2
116	Cellular Architecture-Based All-Polymer Flexible Thin-Film Photodetectors with High Performance and Stability in Harsh Environment. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700185	6.8	6
115	CO Plasma-Treated TiO Film as an Effective Electron Transport Layer for High-Performance Planar Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 33989-33996	9.5	30
114	Earth-abundant elements doping for robust and stable solar-driven water splitting by FeOOH. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 21478-21485	13	35
113	120 mm single-crystalline perovskite and wafers: towards viable applications. <i>Science China Chemistry</i> , <b>2017</b> , 60, 1367-1376	7.9	86
112	High-performance transparent ultraviolet photodetectors based on inorganic perovskite CsPbCl <sub>3</sub> nanocrystals. <i>RSC Advances</i> , <b>2017</b> , 7, 36722-36727	3.7	64
111	Superior stability for perovskite solar cells with 20% efficiency using vacuum co-evaporation. <i>Nanoscale</i> , <b>2017</b> , 9, 12316-12323	7.7	135
110	Local temperature reduction induced crystallization of MASnI <sub>3</sub> and achieving a direct wafer production. <i>RSC Advances</i> , <b>2017</b> , 7, 38155-38159	3.7	12

109	Stable high efficiency two-dimensional perovskite solar cells via cesium doping. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 2095-2102	35.4	496
108	High-Performance, Self-Powered Photodetectors Based on Perovskite and Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 42779-42787	9.5	69
107	Zn-doping for reduced hysteresis and improved performance of methylammonium lead iodide perovskite hybrid solar cells. <i>Materials Today Energy</i> , <b>2017</b> , 5, 205-213	7	63
106	Polar rotor scattering as atomic-level origin of low mobility and thermal conductivity of perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Nature Communications</i> , <b>2017</b> , 8, 16086	17.4	67
105	2D WS <sub>2</sub> nanosheet supported Pt nanoparticles for enhanced hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 5472-5477	6.7	38
104	Synthesis of thickness-controlled cuboid WO <sub>3</sub> nanosheets and their exposed facets-dependent acetone sensing properties. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 696, 490-497	5.7	42
103	H <sub>2</sub> -Ar dilution for improved c-Si quantum dots in P-doped SiN <sub>x</sub> :H thin film matrix. <i>Applied Surface Science</i> , <b>2017</b> , 396, 235-242	6.7	3
102	Synthesis of Ag quantum dots sensitized WO <sub>3</sub> nanosheets and their enhanced acetone sensing properties. <i>Materials Letters</i> , <b>2017</b> , 186, 66-69	3.3	36
101	Modeling of triangular-shaped substrates for light trapping in microcrystalline silicon solar cells. <i>Optics Communications</i> , <b>2017</b> , 383, 304-309	2	5
100	Optical Properties of Multilayered Ge Nanocrystals Embedded in SiO <sub>x</sub> GeN <sub>y</sub> Thin Films. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 3519-3522	1.3	
99	Perovskite as an effective Voc switcher for high efficiency polymer solar cells. <i>Nano Energy</i> , <b>2016</b> , 20, 126-133	17.1	19
98	Thickness- and Shape-Controlled Growth for Ultrathin Single-Crystalline Perovskite Wafers for Mass Production of Superior Photoelectronic Devices. <i>Advanced Materials</i> , <b>2016</b> , 28, 9204-9209	24	233
97	Flowerlike Cu <sub>2</sub> Te architectures constructed from ultrathin nanoflakes as superior dye adsorbents for wastewater treatment. <i>RSC Advances</i> , <b>2016</b> , 6, 79612-79619	3.7	7
96	Surface optimization to eliminate hysteresis for record efficiency planar perovskite solar cells. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 3071-3078	35.4	691
95	Superior adsorption performance for triphenylmethane dyes on 3D architectures assembled by ZnO nanosheets as thin as ~1.5nm. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 318, 732-741	12.8	45
94	Highly stabilized perovskite solar cell prepared using vacuum deposition. <i>RSC Advances</i> , <b>2016</b> , 6, 93525-93531	3.7	9
93	Perovskite CH <sub>3</sub> NH <sub>3</sub> Pb(BrxI <sub>1-x</sub> ) <sub>3</sub> single crystals with controlled composition for fine-tuned bandgap towards optimized optoelectronic applications. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 9172-9178	7.1	95
92	Improved PEDOT:PSS/c-Si hybrid solar cell using inverted structure and effective passivation. <i>Scientific Reports</i> , <b>2016</b> , 6, 35091	4.9	53

91	Hysteresis-Suppressed High-Efficiency Flexible Perovskite Solar Cells Using Solid-State Ionic-Liquids for Effective Electron Transport. <i>Advanced Materials</i> , <b>2016</b> , 28, 5206-13	24	326
90	Effective solvent-additive enhanced crystallization and coverage of absorber layers for high efficiency formamidinium perovskite solar cells. <i>RSC Advances</i> , <b>2016</b> , 6, 56807-56811	3.7	21
89	AFORS-HET simulation study of HIT solar cells: Significance of inversion layer <b>2016</b> ,		1
88	One-pot fabrication of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles on Ni(OH) <sub>2</sub> nanosheet for enhanced water oxidation. <i>Journal of Power Sources</i> , <b>2016</b> , 324, 499-508	8.9	41
87	Perovskite/germanium tandem: A potential high efficiency thin film solar cell design. <i>Optics Communications</i> , <b>2016</b> , 380, 1-5	2	19
86	Ag Nanoparticle-Sensitized WO <sub>3</sub> Hollow Nanosphere for Localized Surface Plasmon Enhanced Gas Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18165-72	9.5	71
85	The effect of transparent conductive oxide on the performance CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cell without electron/hole selective layers. <i>Solar Energy</i> , <b>2016</b> , 135, 654-661	6.8	21
84	Solar-to-Hydrogen Efficiency of 9.5 % by using a Thin-Layer Platinum Catalyst and Commercial Amorphous Silicon Solar Cells. <i>ChemCatChem</i> , <b>2016</b> , 8, 1713-1717	5.2	5
83	Modulating crystal grain size and optoelectronic properties of perovskite films for solar cells by reaction temperature. <i>Nanoscale</i> , <b>2016</b> , 8, 3816-22	7.7	145
82	Superior texture-controlled ZnO thin film using electrochemical deposition. <i>Solar Energy</i> , <b>2016</b> , 125, 192-197	6.8	10
81	Color-Tuned Perovskite Films Prepared for Efficient Solar Cell Applications. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 42-47	3.8	83
80	2D-MoO <sub>3</sub> nanosheets for superior gas sensors. <i>Nanoscale</i> , <b>2016</b> , 8, 8696-703	7.7	116
79	Fabrication of TiO <sub>2</sub> /C <sub>3</sub> N <sub>4</sub> heterostructure for enhanced photocatalytic Z-scheme overall water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 191, 130-137	21.8	287
78	Controlled electrodeposition of Au monolayer film on ionic liquid. <i>Applied Surface Science</i> , <b>2016</b> , 371, 258-261	6.7	3
77	The effects of Ag particle morphology on the antireflective properties of silicon textured using Ag-assisted chemical etching. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 670, 156-160	5.7	8
76	Heterojunction CuO@ZnO microcubes for superior p-type gas sensor application. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 672, 374-379	5.7	50
75	Au nanoparticle enhanced thin-film silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 147, 225-234	6.4	19
74	Synthesis of CuO microstructures with controlled shape and size and their exposed facets induced enhanced ethanol sensing performance. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 227, 328-335	8.5	29

73	MoS <sub>2</sub> /sulfur and nitrogen co-doped reduced graphene oxide nanocomposite for enhanced electrocatalytic hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 916-923	6.7	36
72	Effect of nanopits size and spacing on the light absorption in silicon thin film solar cells. <i>Optik</i> , <b>2016</b> , 127, 1003-1006	2.5	
71	Ag nanoparticle enhanced light trapping in hydrogenated amorphous silicon germanium solar cells on flexible stainless steel substrate. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 144, 63-67	6.4	17
70	Responses of three-dimensional porous ZnO foam structures to the trace level of triethylamine and ethanol. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 223, 650-657	8.5	33
69	Tellurium-Assisted Epitaxial Growth of Large-Area, Highly Crystalline ReS <sub>2</sub> Atomic Layers on Mica Substrate. <i>Advanced Materials</i> , <b>2016</b> , 28, 5019-24	24	138
68	Controlled Pt Monolayer Fabrication on Complex Carbon Fiber Structures for Superior Catalytic Applications. <i>Electrochimica Acta</i> , <b>2016</b> , 222, 1522-1527	6.7	7
67	Photoinduced surface voltage mapping study for large perovskite single crystals. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 181604	3.4	12
66	Band alignment of TiO <sub>2</sub> /FTO interface determined by X-ray photoelectron spectroscopy: Effect of annealing. <i>AIP Advances</i> , <b>2016</b> , 6, 015314	1.5	11
65	Optical and electrical properties of high-quality Ti <sub>2</sub> O <sub>3</sub> epitaxial film grown on sapphire substrate. <i>Applied Physics A: Materials Science and Processing</i> , <b>2016</b> , 122, 1	2.6	7
64	Influence of oxygen pressure on the structural and electrical properties of CuO thin films prepared by pulsed laser deposition. <i>Materials Letters</i> , <b>2016</b> , 176, 282-284	3.3	25
63	Fabrication of a Cu <sub>2</sub> MnSn(S,Se) <sub>4</sub> thin film based on a low-cost degradable solution process. <i>CrystEngComm</i> , <b>2016</b> , 18, 4744-4748	3.3	5
62	Kesterite Cu <sub>2</sub> Zn(Sn,Ge)(S,Se) <sub>4</sub> thin film with controlled Ge-doping for photovoltaic application. <i>Nanoscale</i> , <b>2016</b> , 8, 10160-5	7.7	29
61	One-pot hydrothermal fabrication of layered ENi(OH) <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> nanohybrids for enhanced photocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 194, 74-83	21.8	85
60	Multiple-Stage Structure Transformation of Organic-Inorganic Hybrid Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	11
59	20-mm-Large Single-Crystalline Formamidinium-Perovskite Wafer for Mass Production of Integrated Photodetectors. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 1829-1837	8.1	233
58	Composition controlled preparation of Cu <sub>2</sub> ZnSn precursor films for Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cells using pulsed electrodeposition. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 650, 1-7	5.7	29
57	Effective light trapping by hybrid nanostructure for crystalline silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 140, 180-186	6.4	31
56	One-step preparation of optically transparent Ni-Fe oxide film electrocatalyst for oxygen evolution reaction. <i>Electrochimica Acta</i> , <b>2015</b> , 169, 402-408	6.7	39

55	Visible-light photocatalysis in Cu <sub>2</sub> Se nanowires with exposed {111} facets and charge separation between (111) and (1 $\bar{1}\bar{1}$ ) polar surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 13280-9	3.6	34
54	One-step hydrothermal synthesis of monolayer MoS <sub>2</sub> quantum dots for highly efficient electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10693-10697	13	260
53	Alternating precursor layer deposition for highly stable perovskite films towards efficient solar cells using vacuum deposition. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 9401-9405	13	121
52	Controllable synthesis of silicon nano-particles using a one-step PECVD-ionic liquid strategy. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10233-10237	13	
51	High efficiency flexible perovskite solar cells using superior low temperature TiO <sub>2</sub> . <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 3208-3214	35.4	457
50	Pt monolayer coating on complex network substrate with high catalytic activity for the hydrogen evolution reaction. <i>Science Advances</i> , <b>2015</b> , 1, e1400268	14.3	78
49	Lateral matching of periodic front and back textures in thin film silicon solar cells. <i>Optics Communications</i> , <b>2015</b> , 357, 28-33	2	2
48	Facile synthesis of an iron doped rutile TiO <sub>2</sub> photocatalyst for enhanced visible-light-driven water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 21434-21438	13	44
47	A Se-doped MoS <sub>2</sub> nanosheet for improved hydrogen evolution reaction. <i>Chemical Communications</i> , <b>2015</b> , 51, 15997-6000	5.8	142
46	Synthesis of hierarchical structure Cu <sub>2</sub> SnSe <sub>3</sub> microsphere by a solvothermal method. <i>Materials Letters</i> , <b>2015</b> , 161, 727-730	3.3	4
45	Controlled ZnO hierarchical structure for improved gas sensing performance. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 209, 343-351	8.5	30
44	Topology and texture controlled ZnO thin film electrodeposition for superior solar cell efficiency. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 134, 54-59	6.4	35
43	Superior sensor performance from Ag@WO <sub>3</sub> core-shell nanostructure. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 623, 127-131	5.7	25
42	One-pot synthesis of Co-doped ZnO hierarchical aggregate and its high gas sensor performance. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 149-150, 344-349	4.4	19
41	Enhancing the Performance of Amorphous-Silicon Photoanodes for Photoelectrocatalytic Water Oxidation. <i>ChemSusChem</i> , <b>2015</b> , 8, 3987-91	8.3	14
40	Two-Inch-Sized Perovskite CH <sub>3</sub> NH <sub>3</sub> PbX <sub>3</sub> (X = Cl, Br, I) Crystals: Growth and Characterization. <i>Advanced Materials</i> , <b>2015</b> , 27, 5176-83	24	746
39	The Photoluminescence Behaviors of a Novel Reddish Orange Emitting Phosphor CaIn <sub>2</sub> O <sub>4</sub> :Sm <sup>3+</sup> +Co-doped with Zn <sup>2+</sup> or Al <sup>3+</sup> Ions. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-5	3.2	1
38	An up-scalable approach to CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> compact films for high-performance perovskite solar cells. <i>Nano Energy</i> , <b>2015</b> , 15, 670-678	17.1	67



37	p-Layer bandgap engineering for high efficiency thin film silicon solar cells. <i>Materials Science in Semiconductor Processing</i> , <b>2015</b> , 39, 192-199	4.3	12
36	Superior photocatalytic activities of NiO octahedrons with loaded AgCl particles and charge separation between polar NiO {1 1 1} surfaces. <i>Applied Catalysis B: Environmental</i> , <b>2015</b> , 172-173, 165-173	21.8	27
35	Fabrication gallium/graphene core-shell nanoparticles by pulsed laser deposition and their applications in surface enhanced Raman scattering. <i>Materials Letters</i> , <b>2015</b> , 143, 194-196	3.3	10
34	Li doping effect on the photoluminescence behaviors of K <sub>2</sub> SrPO <sub>4</sub> :Dy <sup>3+</sup> phosphors for WLED light. <i>Materials Research Bulletin</i> , <b>2015</b> , 64, 364-369	5.1	29
33	Ag(x)@WO <sub>3</sub> core-shell nanostructure for LSP enhanced chemical sensors. <i>Scientific Reports</i> , <b>2014</b> , 4, 6745	4.9	80
32	Diameter regulated ZnO nanorod synthesis and its application in gas sensor optimization. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 586, 436-440	5.7	24
31	Preparation of ZnO hollow spheres with different surface roughness and their enhanced gas sensing property. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 197, 58-65	8.5	61
30	Graphene oxide is surprisingly good nucleation seed and adhesion promotion agent for one-step ZnO lithography and optoelectronic applications. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 8956-8961	7.1	20
29	Size-dependent optical properties and enhanced visible light photocatalytic activity of wurtzite CdSe hexagonal nanoflakes with dominant {001} facets. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 610, 62-68	5.7	14
28	Synthesis and formation mechanism of flowerlike architectures assembled from ultrathin NiO nanoflakes and their adsorption to malachite green and acid red in water. <i>Chemical Engineering Journal</i> , <b>2014</b> , 239, 141-148	14.7	64
27	Effect of Ag Film Thickness on the Morphology and Light Scattering Properties of Ag Nanoparticles. <i>Nanoscience and Nanotechnology Letters</i> , <b>2014</b> , 6, 392-397	0.8	2
26	InOCl nanosheets with exposed {0 0 1} facets: Synthesis, electronic structure and surprisingly high photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 152-153, 390-396	21.8	9
25	Millimeter-long multilayer graphene nanoribbons prepared by wet chemical processing. <i>Carbon</i> , <b>2014</b> , 71, 120-126	10.4	13
24	Direct growth of ZnO nanodisk networks with an exposed (0001) facet on Au comb-shaped interdigitating electrodes and the enhanced gas-sensing property of polar {0001} surfaces. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 195, 71-79	8.5	51
23	Fabrication and Light Scattering Properties of Size Controlled Aluminum Surface Periodic Nanopits. <i>Nanoscience and Nanotechnology Letters</i> , <b>2014</b> , 6, 470-476	0.8	2
22	Development of an alcohol sensor based on ZnO nanorods synthesized using a scalable solvothermal method. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 185, 735-742	8.5	41
21	Generation and manipulation of higher order Fano resonances in plasmonic nanodisks with a built-in missing sectorial slice. <i>Europhysics Letters</i> , <b>2013</b> , 104, 47009	1.6	6
20	12.0% Efficiency on large area, encapsulated, multijunction nc-Si:H based solar cells <b>2011</b> ,		2

19	Diaminobenzene Dihydroiodide-MA 0.6 FA 0.4 Pbl 3x Cl x Unsymmetrical Perovskites with over 22% Efficiency for High Stability Solar Cells. <i>Advanced Functional Materials</i> ,2110788	15.6	3
18	Rational Design of Heterojunction Interface for Cu 2 ZnSn(S,Se) 4 Solar Cells to Exceed 12% Efficiency. <i>Solar Rrl</i> ,2101032	7.1	3
17	Symmetrical Acceptor-Donor-Acceptor Molecule as a Versatile Defect Passivation Agent toward Efficient FA 0.85 MA 0.15 Pbl 3 Perovskite Solar Cells. <i>Advanced Functional Materials</i> ,2112032	15.6	11
16	Spontaneous Construction of Multidimensional Heterostructure Enables Enhanced Hole Extraction for Inorganic Perovskite Solar Cells to Exceed 20% Efficiency. <i>Advanced Energy Materials</i> ,2103007	21.8	10
15	Ion-Accumulation-Induced Charge Tunneling for High Gain Factor in PIN-Structured Perovskite CH3NH3Pbl3 X-Ray Detector. <i>Advanced Materials Technologies</i> ,2100908	6.8	6
14	A Key 2D Intermediate Phase for Stable High-Efficiency CsPbl2Br Perovskite Solar Cells. <i>Advanced Energy Materials</i> ,2103019	21.8	12
13	Grain and stoichiometry engineering for ultra-sensitive perovskite X-ray detectors. <i>Journal of Materials Chemistry A</i> ,	13	5
12	Microstructure and lattice strain control towards high-performance ambient green-printed perovskite solar cells. <i>Journal of Materials Chemistry A</i> ,	13	9
11	Double Side Interfacial Optimization for Low-Temperature Stable CsPbl2Br Perovskite Solar Cells with High Efficiency Beyond 16%. <i>Energy and Environmental Materials</i> ,	13	9
10	Interfaces and Interfacial Layers in Inorganic Perovskite Solar Cells. <i>Angewandte Chemie</i> ,	3.6	1
9	IrOx@In2O3 heterojunction made of individually crystallized oxides for weak-light promoted electrocatalytic water oxidation. <i>Angewandte Chemie</i> ,	3.6	3
8	Design of surface termination for high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> ,	13	11
7	Carrier Generation Engineering toward 18% Efficiency Organic Solar Cells by Controlling Film Microstructure. <i>Advanced Energy Materials</i> ,2103940	21.8	5
6	Ligand-Anchoring-Induced Oriented Crystal Growth for High-Efficiency Lead-Tin Perovskite Solar Cells. <i>Advanced Functional Materials</i> ,2201384	15.6	6
5	First-Principles Calculation Design for 2D Perovskite to Suppress Ion Migration for High-Performance X-ray Detection. <i>Advanced Functional Materials</i> ,2110392	15.6	8
4	Amino Acid-Based Low-Dimensional Management for Enhanced Perovskite Solar Cells. <i>Solar Rrl</i> ,2200168	7.1	1
3	4-Hydrazinobenzoic-Acid Antioxidant for High-Efficiency SnPb Alloyed Perovskite Solar Cells. <i>Energy Technology</i> ,2200217	3.5	4
2	Water-Resistant Lead-Free Perovskitoid Single Crystal for Efficient X-Ray Detection. <i>Advanced Functional Materials</i> ,2202160	15.6	4

- 1 Structural and Functional Insights into Metal-Free Perovskites. *Journal of Physical Chemistry Letters*, 5168-5178 ○