

# Shengzhong Frank Liu

## List of Publications by Citations

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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	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
449	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
448	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
447	Stable High-Performance Perovskite Solar Cells via Grain Boundary Passivation. <i>Advanced Materials</i> , <b>2018</b> , 30, e1706576	24	505
446	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
445	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
444	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
443	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
442	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
441	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
440	Record Efficiency Stable Flexible Perovskite Solar Cell Using Effective Additive Assistant Strategy. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801418	24	286
439	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
438	All-Inorganic CsPbX Perovskite Solar Cells: Progress and Prospects. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 15596-15618	16.4	272
437	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
436	3D/2D Interface Profiling for Record Efficiency All-Inorganic CsPbBr <sub>2</sub> Perovskite Solar Cells with Superior Stability. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703246	21.8	256
435	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
434	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

433	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
432	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
431	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
430	Single atom tungsten doped ultrathin Ni(OH) for enhanced electrocatalytic water oxidation. <i>Nature Communications</i> , <b>2019</b> , 10, 2149	17.4	210
429	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
428	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
427	g-C <sub>3</sub> N <sub>4</sub> Loading Black Phosphorus Quantum Dot for Efficient and Stable Photocatalytic H <sub>2</sub> Generation under Visible Light. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800668	15.6	192
426	Phase Transition Control for High Performance Ruddlesden-Popper Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2018</b> , 30, e1707166	24	192
425	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
424	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
423	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
422	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
421	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
420	β-Graphene Crosslinked CsPbI <sub>3</sub> Quantum Dots for High Efficiency Solar Cells with Much Improved Stability. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800007	21.8	167
419	Alkali Metal Doping for Improved CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cells. <i>Advanced Science</i> , <b>2018</b> , 5, 1700131	13.6	160
418	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
417	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
416	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

415	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
414	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
413	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
412	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
411	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
410	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
409	Interface-Modification-Induced Gradient Energy Band for Highly Efficient CsPbI <sub>2</sub> Br <sub>2</sub> Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803785	21.8	138
408	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
407	Multi-inch single-crystalline perovskite membrane for high-detectivity flexible photosensors. <i>Nature Communications</i> , <b>2018</b> , 9, 5302	17.4	136
406	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
405	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
404	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
403	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
402	Progress toward Stable Lead Halide Perovskite Solar Cells. <i>Joule</i> , <b>2018</b> , 2, 1961-1990	27.8	132
401	Phase Transition Control for High-Performance Blade-Coated Perovskite Solar Cells. <i>Joule</i> , <b>2018</b> , 2, 1313-1330	27.8	125
400	Chlorine doping for black ECsPbI <sub>3</sub> solar cells with stabilized efficiency beyond 16%. <i>Nano Energy</i> , <b>2019</b> , 58, 175-182	17.1	124
399	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
398	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

397	2D-MoO <sub>3</sub> nanosheets for superior gas sensors. <i>Nanoscale</i> , <b>2016</b> , 8, 8696-703	7.7	116
396	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
395	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
394	Multifunctional Enhancement for Highly Stable and Efficient Perovskite Solar Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2005776	15.6	111
393	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
392	Scalable Fabrication of Metal Halide Perovskite Solar Cells and Modules. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 2147-2167	20.1	110
391	Interface engineering of low temperature processed all-inorganic CsPbI <sub>2</sub> Br perovskite solar cells toward PCE exceeding 14%. <i>Nano Energy</i> , <b>2019</b> , 60, 583-590	17.1	109
390	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
389	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
388	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
387	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
386	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
385	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
384	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
383	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
382	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
381	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
380	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

379	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
378	CsPb(I Br) <sub>1-x</sub> solar cells. <i>Science Bulletin</i> , <b>2019</b> , 64, 1532-1539	10.6	92
377	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
376	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
375	Printable CsPbI Perovskite Solar Cells with PCE of 19% via an Additive Strategy. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001243	24	88
374	120 mm single-crystalline perovskite and wafers: towards viable applications. <i>Science China Chemistry</i> , <b>2017</b> , 60, 1367-1376	7.9	86
373	One-pot hydrothermal fabrication of layered Ni(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
372	Stable ultra-fast broad-bandwidth photodetectors based on CsPbI perovskite and NaYF <sub>4</sub> :Yb,Er quantum dots. <i>Nanoscale</i> , <b>2017</b> , 9, 6278-6285	7.7	84
371	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
370	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
369	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
368	Synthesis of Large-Size 1T' ReS <sub>2</sub> Se Alloy Monolayer with Tunable Bandgap and Carrier Type. <i>Advanced Materials</i> , <b>2017</b> , 29, 1705015	24	80
367	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
366	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
365	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
364	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
363	Ruddlesden-Popper 2D Component to Stabilize CsPbI <sub>3</sub> Perovskite Phase for Stable and Efficient Photovoltaics. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902529	21.8	74
362	Nitrogen-doped graphene quantum dots for 80% photoluminescence quantum yield for inorganic CsPbI <sub>3</sub> perovskite solar cells with efficiency beyond 16%. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 5740-5747	13	73

361	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
360	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
359	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
358	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
357	P Doped MoO <sub>3</sub> Nanosheets as Efficient and Stable Electrocatalysts for Hydrogen Evolution. <i>Small</i> , <b>2017</b> , 13, 1700441	11	70
356	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
355	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
354	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
353	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
352	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
351	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
350	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
349	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
348	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
347	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
346	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
345	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
344	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

343	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
342	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
341	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
340	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
339	Thermally stable methylammonium-free inverted perovskite solar cells with Zn <sup>2+</sup> doped CuGaO <sub>2</sub> as efficient mesoporous hole-transporting layer. <i>Nano Energy</i> , <b>2019</b> , 61, 148-157	17.1	61
338	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
337	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
336	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
335	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
334	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
333	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
332	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
331	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
330	Low-temperature and facile solution-processed two-dimensional TiS <sub>2</sub> 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 <sup>56</sup>	11.3	56
329	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
328	Unveiling the Effects of Hydrolysis-Derived DMAI/DMAPI Intermediate Compound on the Performance of CsPbI <sub>2</sub> Solar Cells. <i>Advanced Science</i> , <b>2020</b> , 7, 1902868	13.6	54
327	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
326	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



325	Perovskite-a Perfect Top Cell for Tandem Devices to Break the S-Q Limit. <i>Advanced Science</i> , <b>2019</b> , 6, 1801304	13.04	52
324	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
323	Path towards high-efficient kesterite solar cells. <i>Journal of Energy Chemistry</i> , <b>2018</b> , 27, 1040-1053	12	51
322	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
321	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
320	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
319	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
318	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
317	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
316	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
315	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
314	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
313	Novel Surface Passivation for Stable FA <sub>0.85</sub> MA <sub>0.15</sub> PbI <sub>3</sub> Perovskite Solar Cells with 21.6% Efficiency. <i>Solar Rrl</i> , <b>2019</b> , 3, 1900072	7.1	49
312	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
311	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
310	Metal Cations in Efficient Perovskite Solar Cells: Progress and Perspective. <i>Advanced Materials</i> , <b>2019</b> , 31, e1902037	24	48
309	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
308	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

307	Molecular Engineering for Two-Dimensional Perovskites with Photovoltaic Efficiency Exceeding 18%. <i>Matter</i> , <b>2021</b> , 4, 582-599	12.7	46
306	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
305	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
304	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
303	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
302	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
301	High-Efficiency Perovskite Solar Cells Enabled by Anatase TiO Nanopyramid Arrays with an Oriented Electric Field. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 11969-11976	16.4	44
300	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
299	Organic-Inorganic Hybrid Perovskite with Controlled Dopant Modification and Application in Photovoltaic Device. <i>Small</i> , <b>2017</b> , 13, 1604153	11	42
298	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
297	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
296	Enhancing the Sensing Properties of TiO Nanosheets with Exposed {001} Facets by a Hydrogenation and Sensing Mechanism. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 1504-1510	5.1	41
295	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
294	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
293	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
292	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
291	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
290	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

289	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
288	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
287	Record-Efficiency Flexible Perovskite Solar Cells Enabled by Multifunctional Organic Ions Interface Passivation.. <i>Advanced Materials</i> , <b>2022</b> , e2201681	24	39
286	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
285	Record-Low-Threshold Lasers Based on Atomically Smooth Triangular Nanoplatelet Perovskite. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805553	15.6	37
284	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
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	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
281	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
280	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
279	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
278	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
277	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
276	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
275	Visible-light photocatalysis in Cu <sub>2</sub> Se nanowires with exposed {111} facets and charge separation between (111) and (1[combining macron]1[combining macron]1[combining macron]) polar surfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 13280-9	3.6	34
274	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
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272	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

271	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
270	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
269	Extrinsic Ion Distribution Induced Field Effect in CsPbI <sub>3</sub> Perovskite Solar Cells. <i>Small</i> , <b>2020</b> , 16, e1907288	3.1	32
268	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
267	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
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265	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
264	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
263	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
262	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
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258	2D Perovskite Single Crystals with Suppressed Ion Migration for High-Performance Planar-Type Photodetectors. <i>Small</i> , <b>2020</b> , 16, e2003145	11	30
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256	Composition controlled preparation of Cu <sub>2</sub> ZnSnS <sub>4</sub> 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
255	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
254	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

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250	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
249	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
248	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
247	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
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245	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
244	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
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241	2D-3D CsPbI <sub>3</sub> -CsPbBr <sub>3</sub> 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
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236	Mn Doping of CsPbI <sub>3</sub> Film Towards High-Efficiency Solar Cell. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5190-5197	5.197	25

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232	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
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219	Flexible Perovskit-Solarzellen: Herstellung und Anwendungen. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 4512-4530	3.0	21
218	Molten-Salt-Assisted CsPbI Perovskite Crystallization for Nearly 20%-Efficiency Solar Cells. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103770	24	21

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214	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
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207	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
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203	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
202	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
201	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
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193	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
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191	Moisture-Induced Crystallinity Improvement for Efficient CsPbI <sub>3</sub> Perovskite Solar Cells with Excess Cesium Bromide. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 4587-4595	6.4	16
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180	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
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74	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

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