# Zhaoning Song

List of Publications by Year
in descending order

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|---|---|---|---|
| 137 papers | 7,797 citations | 81839 39 h-index | 51562 86 g-index |
| 141 all docs | 141 docs citations | 141 times ranked | 7911 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Templated Growth and Passivation of Vertically Oriented Antimony Selenide Thin Films for Highâ€Efficiency Solar Cells in Substrate Configuration. Advanced Functional Materials, 2022, 32, 2110032. | 7.8 | 40 |
| 2 | Bio-sensitized solar cells built from renewable carbon sources. Materials Today Energy, 2022, 23, 100910. | 2.5 | 7 |
| 3 | Urbach Energy and Open-Circuit Voltage Deficit for Mixed Anionâ€“Cation Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 7796-7804. | 4.0 | 53 |
| 4 | Perovskite Solar Cells Go Bifacialâ€”Mutual Benefits for Efficiency and Durability. Advanced Materials, 2022, 34, e2106805. | 11.1 | 31 |
| 5 | Impact of lifetime on the levelized cost of electricity from perovskite single junction and tandem solar cells. Sustainable Energy and Fuels, 2022, 6, 2718-2726. | 2.5 | 11 |
| 6 | Optical and Electronic Losses Arising from Physically Mixed Interfacial Layers in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 4923-4934. | 4.0 | 14 |
| 7 | Low-energy room-temperature optical switching in mixed-dimensionality nanoscale perovskite heterojunctions. Science Advances, 2021, 7, . | 4.7 | 41 |
| 8 | Influence of Post-selenization Temperature on the Performance of Substrate-Type Sb<sub>2</sub>Se<sub>3</sub> Solar Cells. ACS Applied Energy Materials, 2021, 4, 4313-4318. | 2.5 | 32 |
| 9 | Enabling bifacial thin film devices by developing a back surface field using CuxAlOy. Nano Energy, 2021, 83, 105827. | 8.2 | 32 |
| 10 | Temperature-dependency of ferroelectric behavior in CH3NH3PbI3 perovskite films measured by the Sawyerâ€“Tower method. MRS Advances, 2021, 6, 613-617. | 0.5 | 1 |
| 11 | Life Cycle Assessment of Perovskite/Silicon Tandem Solar Cells Coupled with Solar Flow Battery Systems. , 2021, , . | | 1 |
| 12 | On the design and performance of InGaN/Si double-junction photocathodes. Applied Physics Letters, 2021, 118, . | 1.5 | 6 |
| 13 | Fabricating Efficient CdTe Solar Cells: The Effect of Cu Precursor. , 2021, , . | | 2 |
| 14 | Optimizing the Selenization of Sb2Se3 Absorbers to Improve the Film Quality and Solar Cell Performances. , 2021, , . | | 0 |
| 15 | Mitigating ion migration in perovskite solar cells. Trends in Chemistry, 2021, 3, 575-588. | 4.4 | 81 |
| 16 | Protecting Perovskite Solar Cells against Moisture-Induced Degradation with Sputtered Inorganic Barrier Layers. ACS Applied Energy Materials, 2021, 4, 7571-7578. | 2.5 | 20 |
| 17 | Impact of Humidity and Temperature on the Stability of the Optical Properties and Structure of MAPbI3, MA0.7FA0.3PbI3 and (FAPbI3)0.95(MAPbBr3)0.05 Perovskite Thin Films. Materials, 2021, 14, 4054. | 1.3 | 10 |
| 18 | Effects of Cu Precursor on the Performance of Efficient CdTe Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 38432-38440. | 4.0 | 15 |

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|---|---|---|---|
| 19 | Optical properties of thin film Sb2Se3 and identification of its electronic losses in photovoltaic devices. Solar Energy, 2021, 228, 38-44. | 2.9 | 11 |
| 20 | Assessing the true power of bifacial perovskite solar cells under concurrent bifacial illumination. Sustainable Energy and Fuels, 2021, 5, 2865-2870. | 2.5 | 17 |
| 21 | Interface modification of sputtered NiO<sub>x</sub> as the hole-transporting layer for efficient inverted planar perovskite solar cells. Journal of Materials Chemistry C, 2020, 8, 1972-1980. | 2.7 | 66 |
| 22 | High Remaining Factors in the Photovoltaic Performance of Perovskite Solar Cells after High-Fluence Electron Beam Irradiations. Journal of Physical Chemistry C, 2020, 124, 1330-1336. | 1.5 | 30 |
| 23 | Charge Compensating Defects in Methylammonium Lead Iodide Perovskite Suppressed by Formamidinium Inclusion. Journal of Physical Chemistry Letters, 2020, 11, 121-128. | 2.1 | 15 |
| 24 | Low-bandgap mixed tinâ€“lead iodide perovskites with reduced methylammonium for simultaneous enhancement of solar cell efficiency and stability. Nature Energy, 2020, 5, 768-776. | 19.8 | 165 |
| 25 | Environmental Impact per Energy Yield for Bifacial Perovskite Solar Cells Outperforms Crystalline Silicon Solar Cells. Cell Reports Physical Science, 2020, 1, 100216. | 2.8 | 11 |
| 26 | Toward ideal hole transport materials: a review on recent progress in dopant-free hole transport materials for fabricating efficient and stable perovskite solar cells. Energy and Environmental Science, 2020, 13, 4057-4086. | 15.6 | 241 |
| 27 | Arylammonium-Assisted Reduction of the Open-Circuit Voltage Deficit in Wide-Bandgap Perovskite Solar Cells: The Role of Suppressed Ion Migration. ACS Energy Letters, 2020, 5, 2560-2568. | 8.8 | 131 |
| 28 | InGaN/Si Double-Junction Photocathode for Unassisted Solar Water Splitting. ACS Energy Letters, 2020, 5, 3741-3751. | 8.8 | 49 |
| 29 | Narrow-Bandgap Mixed Lead/Tin-Based 2D Dionâ€“Jacobson Perovskites Boost the Performance of Solar Cells. Journal of the American Chemical Society, 2020, 142, 15049-15057. | 6.6 | 103 |
| 30 | Emerging Photovoltaic (PV) Materials for a Low Carbon Economy. Energies, 2020, 13, 4131. | 1.6 | 14 |
| 31 | CuSCN as the Back Contact for Efficient ZMO/CdTe Solar Cells. Materials, 2020, 13, 1991. | 1.3 | 13 |
| 32 | Coherent band-edge oscillations and dynamic longitudinal-optical phonon mode splitting as evidence for polarons in perovskites. Physical Review B, 2020, 101, . | 1.1 | 18 |
| 33 | Sputtered indium tin oxide as a recombination layer formed on the tunnel oxide/poly-Si passivating contact enabling the potential of efficient monolithic perovskite/Si tandem solar cells. Solar Energy Materials and Solar Cells, 2020, 210, 110482. | 3.0 | 33 |
| 34 | Decreasing the resolution limit of laser beam induced current measurements below the beam size without confocal optics: Determining laser scribe widths. Solar Energy Materials and Solar Cells, 2020, 215, 110660. | 3.0 | 1 |
| 35 | Very high V<sub>OC</sub> and FF of CdTe thinâ€film solar cells with the applications of organoâ€metallic halide perovskite thin film as a hole transport layer. Progress in Photovoltaics: Research and Applications, 2020, 28, 1024-1033. | 4.4 | 8 |
| 36 | Solutionâ€Processed Highâ€Quality Cesium Lead Bromine Perovskite Photodetectors with High Detectivity for Application in Visible Light Communication. Advanced Optical Materials, 2020, 8, 1901735. | 3.6 | 38 |

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| 37 | Influence of Charge Transport Layers on Capacitance Measured in Halide Perovskite Solar Cells. Joule, 2020, 4, 644-657. | 11.7 | 69 |
| 38 | Effects of intrinsic and atmospherically induced defects in narrow bandgap (FASnI3)x(MAPbI3)1â^'x perovskite films and solar cells. Journal of Chemical Physics, 2020, 152, 064705. | 1.2 | 26 |
| 39 | Correlating Hysteresis and Stability with Organic Cation Composition in the Two-Step Solution-Processed Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 10588-10596. | 4.0 | 27 |
| 40 | Maximize CdTe solar cell performance through copper activation engineering. Nano Energy, 2020, 73, 104835. | 8.2 | 35 |
| 41 | Ultrafast Control of Excitonic Rashba Fine Structure by Phonon Coherence in the Metal Halide Perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CH</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></ Physical Review Letters, 2020, 124, 157401. | 2.9 | 32 |
| 42 | Cryogenic spatialâ€“temporal imaging of surface photocarrier dynamics in MAPbI3 films at the single grain level. AIP Advances, 2020, 10, . | 0.6 | 2 |
| 43 | Solution Processed CuCl treatment for efficient CdS/CdTe Solar Cells. , 2020, , . | | 1 |
| 44 | Lead-Free Metal Halide Perovskites for Solar Cell Applications: A Theoretical Perspective. , 2020, , . | | 0 |
| 45 | 21.1% Efficient Space Perovskite/Si Four-Terminal Tandem Solar Cells. , 2020, , . | | 3 |
| 46 | Dithieno[3,2â€b:2â€²,3â€²â€d]pyrrolâ€Cored Hole Transport Material Enabling Over 21% Efficiency Dopantâ€Free Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1904300. | 7.8 | 114 |
| 47 | Dithieno[3,2â€b:2â€²,3â€²â€d]pyrrole Cored pâ€Type Semiconductors Enabling 20â€‰% Efficiency Dopantâ€Free Perovskite Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 13717-13721. | 7.2 | 108 |
| 48 | Dithieno[3,2â€b:2â€²,3â€²â€d]pyrrole Cored pâ€Type Semiconductors Enabling 20â€‰% Efficiency Dopantâ€Free Perovskite Solar Cells. Angewandte Chemie, 2019, 131, 13855-13859. | 1.6 | 16 |
| 49 | Bacteriorhodopsin Enhances Efficiency of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 30728-30734. | 4.0 | 30 |
| 50 | Optical Properties of Bacteriorhodopsinâ€“Gold Bionano Interfaces. Journal of Physical Chemistry C, 2019, 123, 26516-26521. | 1.5 | 1 |
| 51 | Influences of buffer material and fabrication atmosphere on the electrical properties of CdTe solar cells. Progress in Photovoltaics: Research and Applications, 2019, 27, 1115-1123. | 4.4 | 24 |
| 52 | Perovskiteâ€”a Perfect Top Cell for Tandem Devices to Break the Sâ€“Q Limit. Advanced Science, 2019, 6, 1801704. | 5.6 | 80 |
| 53 | A Cu<sub>3</sub>PS<sub>4</sub> nanoparticle hole selective layer for efficient inverted perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 4604-4610. | 5.2 | 29 |
| 54 | Irradiance and temperature considerations in the design and deployment of high annual energy yield perovskite/CIGS tandems. Sustainable Energy and Fuels, 2019, 3, 1841-1851. | 2.5 | 30 |

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| 55 | Wide-bandgap, low-bandgap, and tandem perovskite solar cells. Semiconductor Science and Technology, 2019, 34, 093001. | 1.0 | 89 |
| 56 | Probing Biophysicochemical Interactions at Nano-Bio Interface of Perovskite Tandem Biosolar Cells. Biophysical Journal, 2019, 116, 577a. | 0.2 | 1 |
| 57 | Carrier lifetimes of >1 Î¼s in Sn-Pb perovskites enable efficient all-perovskite tandem solar cells. Science, 2019, 364, 475-479. | 6.0 | 781 |
| 58 | Achieving a high open-circuit voltage in inverted wide-bandgap perovskite solar cells with a graded perovskite homojunction. Nano Energy, 2019, 61, 141-147. | 8.2 | 152 |
| 59 | Low-reflection, (110)-orientation-preferred CsPbBr<sub>3</sub> nanonet films for application in high-performance perovskite photodetectors. Nanoscale, 2019, 11, 9302-9309. | 2.8 | 38 |
| 60 | Eliminating S-Kink To Maximize the Performance of MgZnO/CdTe Solar Cells. ACS Applied Energy Materials, 2019, 2, 2896-2903. | 2.5 | 60 |
| 61 | Improving Performance and Stability of Planar Perovskite Solar Cells through Grain Boundary Passivation with Block Copolymers. Solar Rrl, 2019, 3, 1900078. | 3.1 | 40 |
| 62 | From Lead Halide Perovskites to Leadâ€Free Metal Halide Perovskites and Perovskite Derivatives. Advanced Materials, 2019, 31, e1803792. | 11.1 | 621 |
| 63 | Lowâ€Bandgap Mixed Tinâ€Lead Perovskites and Their Applications in Allâ€Perovskite Tandem Solar Cells. Advanced Functional Materials, 2019, 29, 1808801. | 7.8 | 133 |
| 64 | Operando Microscopy Characterization of Perovskite Solar Cells. , 2019, , . | | 1 |
| 65 | ZnTe Back Buffer Layer to Enhance the Efficiency of CdS/CdTe Solar Cells. , 2019, , . | | 5 |
| 66 | Cost analysis of thin film tandem solar cells using real world energy yield modelling. , 2019, , . | | 0 |
| 67 | Get rid of S-kink in MZO/CdTe Solar Cells by Performing CdCl<sub>2</sub> Annealing without Oxygen. , 2019, , . | | 2 |
| 68 | Effects of Fabrication Atmosphere on Bulk and Back Interface Defects of CdTe Solar Cells with CdS and MgZnO Buffers. , 2019, , . | | 1 |
| 69 | Monolithic Two-Terminal All-Perovskite Tandem Solar Cells with Power Conversion Efficiency Exceeding 21%. , 2019, , . | | 3 |
| 70 | Helicity-dependent terahertz photocurrent and phonon dynamics in hybrid metal halide perovskites. Journal of Chemical Physics, 2019, 151, 244706. | 1.2 | 16 |
| 71 | Reducing Saturationâ€Current Density to Realize Highâ€Efficiency Lowâ€Bandgap Mixed Tinâ€“Lead Halide Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803135. | 10.2 | 255 |
| 72 | The Effects of Hydrogen Iodide Back Surface Treatment on CdTe Solar Cells. Solar Rrl, 2019, 3, 1800304. | 3.1 | 29 |

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| 73 | Self-Powered All-Inorganic Perovskite Microcrystal Photodetectors with High Detectivity. Journal of Physical Chemistry Letters, 2018, 9, 2043-2048. | 2.1 | 123 |
| 74 | Four-Terminal All-Perovskite Tandem Solar Cells Achieving Power Conversion Efficiencies Exceeding 23%. ACS Energy Letters, 2018, 3, 305-306. | 8.8 | 219 |
| 75 | Double Coating for the Enhancement of the Performance in a MA<sub>0.7</sub>FA<sub>0.3</sub>PbBr<sub>3</sub> Photodetector. ACS Photonics, 2018, 5, 2100-2105. | 3.2 | 9 |
| 76 | Enhanced Grain Size and Crystallinity in CH3NH3PbI3 Perovskite Films by Metal Additives to the Single-Step Solution Fabrication Process. MRS Advances, 2018, 3, 3237-3242. | 0.5 | 26 |
| 77 | Stable and efficient CdS/Sb2Se3 solar cells prepared by scalable close space sublimation. Nano Energy, 2018, 49, 346-353. | 8.2 | 130 |
| 78 | Life cycle analysis of metals in emerging photovoltaic (PV) technologies: A modeling approach to estimate use phase leaching. Journal of Cleaner Production, 2018, 186, 632-639. | 4.6 | 33 |
| 79 | Effect of non-stoichiometric solution chemistry on improving the performance of wide-bandgap perovskite solar cells. Materials Today Energy, 2018, 7, 232-238. | 2.5 | 31 |
| 80 | Energy Payback Time (EPBT) and Energy Return on Energy Invested (EROI) of Perovskite Tandem Photovoltaic Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 305-309. | 1.5 | 58 |
| 81 | A Review of China's PV-Generated Electricity Pricing Policy. , 2018, , . | | 0 |
| 82 | Electrical Impedance Characterization of CdTe Thin Film Solar Cells with Hydrogen Iodide Back Surface Etching. , 2018, , . | | 2 |
| 83 | Efficient two-terminal all-perovskite tandem solar cells enabled by high-quality low-bandgap absorber layers. Nature Energy, 2018, 3, 1093-1100. | 19.8 | 422 |
| 84 | Impact of Epoxy Encapsulation on Device Stability of Large- Area Laser-Patterned Perovskite Solar Cells. , 2018, , . | | 2 |
| 85 | Modeling the Performance of CdTe Solar Cells with a CH<inf>3</inf>NH<inf>3</inf>Pb(I<inf>1-X</inf>Br<inf>X</inf>)<inf>3</inf> -like Back Buffer Layer. , 2018, , . | | |
| 86 | Manufacturing Cost Analysis of Perovskite Solar Modules in Single-Junction and All-Perovskite Tandem Configurations. , 2018, , . | | 11 |
| 87 | Impact of Moisture on Photoexcited Charge Carrier Dynamics in Methylammonium Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 6312-6320. | 2.1 | 56 |
| 88 | Self-powered CsPbBr3 nanowire photodetector with a vertical structure. Nano Energy, 2018, 53, 880-886. | 8.2 | 104 |
| 89 | Optical design of perovskite solar cells for applications in monolithic tandem configuration with CuInSe2 bottom cells. MRS Advances, 2018, 3, 3111-3119. | 0.5 | 13 |
| 90 | Evolution of Perovskite Solar Cells. , 2018, , 43-88. | | 18 |

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| 91 | Pressure-Assisted Annealing Strategy for High-Performance Self-Powered All-Inorganic Perovskite Microcrystal Photodetectors. Journal of Physical Chemistry Letters, 2018, 9, 4714-4719. | 2.1 | 50 |
| 92 | Band Tail Engineering in Kesterite Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> Thin-Film Solar Cells with 11.8% Efficiency. Journal of Physical Chemistry Letters, 2018, 9, 4555-4561. | 2.1 | 59 |
| 93 | Nanocomposite (CuS) (ZnS)1 thin film back contact for CdTe solar cells: Toward a bifacial device. Solar Energy Materials and Solar Cells, 2018, 186, 227-235. | 3.0 | 30 |
| 94 | Synergistic effects of thiocyanate additive and cesium cations on improving the performance and initial illumination stability of efficient perovskite solar cells. Sustainable Energy and Fuels, 2018, 2, 2435-2441. | 2.5 | 27 |
| 95 | Binary hole transport materials blending to linearly tune HOMO level for high efficiency and stable perovskite solar cells. Nano Energy, 2018, 51, 680-687. | 8.2 | 59 |
| 96 | Probing the origins of photodegradation in organicâ€“inorganic metal halide perovskites with time-resolved mass spectrometry. Sustainable Energy and Fuels, 2018, 2, 2460-2467. | 2.5 | 84 |
| 97 | Selective Cd Removal From CdTe for High-Efficiency Te Back-Contact Formation. IEEE Journal of Photovoltaics, 2018, 8, 1125-1131. | 1.5 | 24 |
| 98 | A technoeconomic analysis of perovskite solar module manufacturing with low-cost materials and techniques. Energy and Environmental Science, 2017, 10, 1297-1305. | 15.6 | 438 |
| 99 | Impact of Divalent Metal Additives on the Structural and Optoelectronic Properties of CH3NH3PbI3 Perovskite Prepared by the Two-Step Solution Process. MRS Advances, 2017, 2, 1183-1188. | 0.5 | 8 |
| 100 | Enhanced Grain Size, Photoluminescence, and Photoconversion Efficiency with Cadmium Addition during the Two-Step Growth of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>. ACS Applied Materials & Interfaces, 2017, 9, 2334-2341. | 4.0 | 45 |
| 101 | Cost-effective hole transporting material for stable and efficient perovskite solar cells with fill factors up to 82%. Journal of Materials Chemistry A, 2017, 5, 23319-23327. | 5.2 | 40 |
| 102 | Water Vapor Treatment of Low-Temperature Deposited SnO<sub>2</sub> Electron Selective Layers for Efficient Flexible Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 2118-2124. | 8.8 | 161 |
| 103 | Imaging the Spatial Evolution of Degradation in Perovskite/Si Tandem Solar Cells After Exposure to Humid Air. IEEE Journal of Photovoltaics, 2017, 7, 1563-1568. | 1.5 | 14 |
| 104 | Environmental analysis of perovskites and other relevant solar cell technologies in a tandem configuration. Energy and Environmental Science, 2017, 10, 1874-1884. | 15.6 | 104 |
| 105 | High-Yield Production of Fatty Nitriles by One-Step Vapor-Phase Thermocatalysis of Triglycerides. ACS Omega, 2017, 2, 9013-9020. | 1.6 | 28 |
| 106 | CdS<sub>1-x</sub>Se<sub>x</sub> Window Layer for CdTe Prepared by the Exchange of S with Se in CdS Films. , 2017, , . | | 0 |
| 107 | Applications of hybrid organic-inorganic metal halide perovskite thin film as a hole transport layer in CdTe thin film solar cells. , 2017, , . | | 7 |
| 108 | Influence of Mono- and Di-valent Metal Additives on Morphology and Charge Carrier Dynamics of CH3NH3PbI3Perovskite. , 2017, , . | | 1 |

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| 109 | Novel, Facile Back Surface Treatment for CdTe Solar Cells. , 2017, , . | | 2 |
| 110 | Use of Single Wall Carbon Nanotube films doped with Triethyloxonium Hexachlorantimonate as a Transparent Back Contact for CdTe Solar Cells. , 2017, , . | | 2 |
| 111 | High speed, intermediate resolution, large area laser beam induced current imaging and laser scribing system for photovoltaic devices and modules. Review of Scientific Instruments, 2016, 87, 093708. | 0.6 | 20 |
| 112 | Investigation on the nucleation and growth mechanisms of perovskite formation in the two-step solution process. , 2016, , . | | 6 |
| 113 | In-situ observation of moisture-induced degradation of perovskite solar cells using laser-beam induced current. , 2016, , . | | 12 |
| 114 | Life cycle toxicity analysis of emerging PV cells. , 2016, , . | | 2 |
| 115 | RF-sputtered Cd<inf>2</inf>SnO<inf>4</inf> for flexible glass CdTe solar cells. , 2016, , . | | 3 |
| 116 | Substrate configuration, bifacial CdTe solar cells grown directly on transparent single wall carbon nanotube back contacts. Solar Energy Materials and Solar Cells, 2016, 157, 35-41. | 3.0 | 17 |
| 117 | Pathways toward high-performance perovskite solar cells: review of recent advances in organo-metal halide perovskites for photovoltaic applications. Journal of Photonics for Energy, 2016, 6, 022001. | 0.8 | 218 |
| 118 | Life Cycle Assessment (LCA) of perovskite PV cells projected from lab to fab. Solar Energy Materials and Solar Cells, 2016, 156, 157-169. | 3.0 | 168 |
| 119 | Probing Photocurrent Nonuniformities in the Subcells of Monolithic Perovskite/Silicon Tandem Solar Cells. Journal of Physical Chemistry Letters, 2016, 7, 5114-5120. | 2.1 | 22 |
| 120 | Perovskite Solar Cell Stability in Humid Air: Partially Reversible Phase Transitions in the PbI<sub>2</sub>â€CH<sub>3</sub>NH<sub>3</sub>Iâ€H<sub>2</sub>O System. Advanced Energy Materials, 2016, 6, 1600846. | 10.2 | 355 |
| 121 | Simultaneous shunt protection and back contact formation for CdTe solar cells with single wall carbon nanotube layers. Applied Physics Letters, 2015, 107, 253901. | 1.5 | 6 |
| 122 | Carbon nanotube reinforced cu metal matrix composites for current collection from space photovoltaics. , 2015, , . | | 2 |
| 123 | Evolution of the optical response of sputtered CdS:O as a function of temperature. , 2015, , . | | 0 |
| 124 | Spatially resolved characterization of solution processed perovskite solar cells using the LBIC technique. , 2015, , . | | 3 |
| 125 | Impact of Processing Temperature and Composition on the Formation of Methylammonium Lead Iodide Perovskites. Chemistry of Materials, 2015, 27, 4612-4619. | 3.2 | 212 |
| 126 | Investigation of degradation mechanisms of perovskite-based photovoltaic devices using laser beam induced current mapping. Proceedings of SPIE, 2015, , . | 0.8 | 9 |

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| 127 | Spray pyrolysis of semi-transparent backwall superstrate CuIn(S,Se)<inf>2</inf> solar cells. , 2014, , . | | 4 |
| 128 | The Effect of Substrate Wettability on Hydrazine-Processed CZTS Thin Films. Materials Research Society Symposia Proceedings, 2014, 1648, 1. | 0.1 | 0 |
| 129 | Spray Pyrolysis of CuIn(S,Se)<sub>2</sub> Thin Films Using Hydrazine-based Solutions. Materials Research Society Symposia Proceedings, 2014, 1630, 1. | 0.1 | 3 |
| 130 | Semiconducting carbon single-walled nanotubes as a cu-free, barrier-free back contact for CdTe solar cell. , 2014, , . | | 6 |
| 131 | Properties of Silicon Quantum Dots Embedded in Silicon Nitride Deposited by Magnetron Co-Sputtering. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 534-537. | 0.1 | 2 |
| 132 | Wiring-up Carbon Single Wall Nanotubes to Polycrystalline Inorganic Semiconductor Thin Films: Low-Barrier, Copper-Free Back Contact to CdTe Solar Cells. Nano Letters, 2013, 13, 5224-5232. | 4.5 | 63 |
| 133 | Synthesis of single-phase Cu<inf>2</inf>ZnSnS<inf>4</inf> thin films by ultrasonic spray pyrolysis. , 2013, , . | | 2 |
| 134 | Density behaviors of Ge nanodots self-assembled by ion beam sputtering deposition. Chinese Physics B, 2013, 22, 058104. | 0.7 | 2 |
| 135 | The performance of nanocrystalline CuInS<inf>2</inf>/In<inf>2</inf>S<inf>3</inf>/SnO<inf>2</inf> heterojunction solar cells prepared by chemical spray pyrolysis. , 2013, , . | | 0 |
| 136 | Plasma treatment to improve amorphous silicon solar cell's performance. , 2013, , . | | 0 |
| 137 | CdTe/CdS thin film solar cells in the substrate configuration on a single-wall carbon nanotube back contact. , 2013, , . | | 1 |