

Yanfa Yan

List of Publications by Year in descending order

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503
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44,762
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522
docs citations

522
times ranked

30943
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Understanding the Interplay Between CdSe Thickness and Cu Doping Temperature in CdSe/CdTe Devices. IEEE Journal of Photovoltaics, 2022, 12, 11-15. | 2.5 | 8 |
| 2 | Copper iodide nanoparticles as a hole transport layer to CdTe photovoltaics: 5.5 % efficient back-illuminated bifacial CdTe solar cells. Solar Energy Materials and Solar Cells, 2022, 235, 111451. | 6.2 | 14 |
| 3 | Improving CdSeTe Devices With a Back Buffer Layer of Cu_xAlO_y . IEEE Journal of Photovoltaics, 2022, 12, 16-21. | 2.5 | 9 |
| 4 | Templated Growth and Passivation of Vertically Oriented Antimony Selenide Thin Films for High-Efficiency Solar Cells in Substrate Configuration. Advanced Functional Materials, 2022, 32, 2110032. | 14.9 | 40 |
| 5 | Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. Science, 2022, 375, 71-76. | 12.6 | 216 |
| 6 | Urbach Energy and Open-Circuit Voltage Deficit for Mixed Anion-Cation Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 7796-7804. | 8.0 | 53 |
| 7 | Self-Trapped Excitons and Broadband Emission in Metal Halide Perovskites. , 2022, , 37-63. | | 0 |
| 8 | Controlling the Formation Process of Methylammonium-Free Halide Perovskite Films for a Homogeneous Incorporation of Alkali Metal Cations Beneficial to Solar Cell Performance. Advanced Energy Materials, 2022, 12, . | 19.5 | 27 |
| 9 | Gradient Doping in Sn-Pb Perovskites by Barium Ions for Efficient Single-Junction and Tandem Solar Cells. Advanced Materials, 2022, 34, e2110351. | 21.0 | 62 |
| 10 | Perovskite Solar Cells Go Bifacial-Mutual Benefits for Efficiency and Durability. Advanced Materials, 2022, 34, e2106805. | 21.0 | 31 |
| 11 | Evolution of defects during the degradation of metal halide perovskite solar cells under reverse bias and illumination. Nature Energy, 2022, 7, 65-73. | 39.5 | 158 |
| 12 | Reduced Recombination and Improved Performance of CdSe/CdTe Solar Cells due to Cu Migration Induced by Light Soaking. ACS Applied Materials & Interfaces, 2022, 14, 19644-19651. | 8.0 | 12 |
| 13 | 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. | 4.9 | 11 |
| 14 | Indium Gallium Oxide Emitters for High-Efficiency CdTe-Based Solar Cells. ACS Applied Energy Materials, 2022, 5, 5484-5489. | 5.1 | 13 |
| 15 | Carrier control in Sn-Pb perovskites via 2D cation engineering for all-perovskite tandem solar cells with improved efficiency and stability. Nature Energy, 2022, 7, 642-651. | 39.5 | 121 |
| 16 | Metal Halide Scintillators with Fast and Self-Absorption-Free Defect-Bound Excitonic Radioluminescence for Dynamic X-Ray Imaging. Advanced Functional Materials, 2021, 31, 2007921. | 14.9 | 78 |
| 17 | Structural Properties and Stability of Inorganic CsPbI_3 Perovskites. Small Structures, 2021, 2, 2000089. | 12.0 | 39 |
| 18 | Optical and Electronic Losses Arising from Physically Mixed Interfacial Layers in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 4923-4934. | 8.0 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Reconfiguring the band-edge states of photovoltaic perovskites by conjugated organic cations. Science, 2021, 371, 636-640. | 12.6 | 184 |
| 20 | Electrical doping in halide perovskites. Nature Reviews Materials, 2021, 6, 531-549. | 48.7 | 189 |
| 21 | Efficient and Stable Red Perovskite Light-Emitting Diodes with Operational Stability >300 h. Advanced Materials, 2021, 33, e2008820. | 21.0 | 119 |
| 22 | Hybrid 3D Nanostructure-Based Hole Transport Layer for Highly Efficient Inverted Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 16611-16619. | 8.0 | 10 |
| 23 | Low-energy room-temperature optical switching in mixed-dimensionality nanoscale perovskite heterojunctions. Science Advances, 2021, 7, . | 10.3 | 41 |
| 24 | Influence of Post-selenization Temperature on the Performance of Substrate-Type Sb ₂ Se ₃ Solar Cells. ACS Applied Energy Materials, 2021, 4, 4313-4318. | 5.1 | 32 |
| 25 | Enabling bifacial thin film devices by developing a back surface field using CuxAlOy. Nano Energy, 2021, 83, 105827. | 16.0 | 32 |
| 26 | High-Photovoltage All-Perovskite Tandem Solar Cells for Photovoltaic-Electrolysis Water-Splitting Applications. , 2021, , . | | 1 |
| 27 | Temperature-dependency of ferroelectric behavior in CH ₃ NH ₃ PbI ₃ perovskite films measured by the Sawyer-Tower method. MRS Advances, 2021, 6, 613-617. | 0.9 | 1 |
| 28 | Low-temperature and effective ex situ group V doping for efficient polycrystalline CdSeTe solar cells. Nature Energy, 2021, 6, 715-722. | 39.5 | 31 |
| 29 | Life Cycle Assessment of Perovskite/Silicon Tandem Solar Cells Coupled with Solar Flow Battery Systems. , 2021, , . | | 1 |
| 30 | On the design and performance of InGaN/Si double-junction photocathodes. Applied Physics Letters, 2021, 118, . | 3.3 | 6 |
| 31 | Fabricating Efficient CdTe Solar Cells: The Effect of Cu Precursor. , 2021, , . | | 2 |
| 32 | Understanding the Interplay between CdSe Thickness and Cu Doping Temperature in CdSe/CdTe Devices. , 2021, , . | | 6 |
| 33 | Optimizing the Selenization of Sb ₂ Se ₃ Absorbers to Improve the Film Quality and Solar Cell Performances. , 2021, , . | | 0 |
| 34 | Determining the Limiting Interface for Thin Film Solar Cells Using Intensity Dependent Front and Back Illuminated Device Performance. , 2021, , . | | 0 |
| 35 | Mitigating ion migration in perovskite solar cells. Trends in Chemistry, 2021, 3, 575-588. | 8.5 | 81 |
| 36 | Protecting Perovskite Solar Cells against Moisture-Induced Degradation with Sputtered Inorganic Barrier Layers. ACS Applied Energy Materials, 2021, 4, 7571-7578. | 5.1 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | A Nanocrystal Catalyst Incorporating a Surface Bound Transition Metal to Induce Photocatalytic Sequential Electron Transfer Events. <i>Journal of the American Chemical Society</i> , 2021, 143, 11361-11369. | 13.7 | 47 |
| 38 | Impact of Humidity and Temperature on the Stability of the Optical Properties and Structure of MAPbI ₃ , MAO.7FAO.3PbI ₃ and (FAPbI ₃) _{0.95} (MAPbBr ₃) _{0.05} Perovskite Thin Films. <i>Materials</i> , 2021, 14, 4054. | 2.9 | 10 |
| 39 | Unraveling the surface state of photovoltaic perovskite thin film. <i>Matter</i> , 2021, 4, 2417-2428. | 10.0 | 22 |
| 40 | Effects of Cu Precursor on the Performance of Efficient CdTe Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38432-38440. | 8.0 | 15 |
| 41 | Superior photo-carrier diffusion dynamics in organic-inorganic hybrid perovskites revealed by spatiotemporal conductivity imaging. <i>Nature Communications</i> , 2021, 12, 5009. | 12.8 | 10 |
| 42 | Optical properties of thin film Sb ₂ Se ₃ and identification of its electronic losses in photovoltaic devices. <i>Solar Energy</i> , 2021, 228, 38-44. | 6.1 | 11 |
| 43 | Assessing the true power of bifacial perovskite solar cells under concurrent bifacial illumination. <i>Sustainable Energy and Fuels</i> , 2021, 5, 2865-2870. | 4.9 | 17 |
| 44 | Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. <i>Science</i> , 2021, , eabj2637. | 12.6 | 2 |
| 45 | Interface modification of sputtered NiO _x as the hole-transporting layer for efficient inverted planar perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1972-1980. | 5.5 | 66 |
| 46 | High Remaining Factors in the Photovoltaic Performance of Perovskite Solar Cells after High-Fluence Electron Beam Irradiations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1330-1336. | 3.1 | 30 |
| 47 | Origin of Broad-Band Emission and Impact of Structural Dimensionality in Tin-Alloyed Ruddlesden-Popper Hybrid Lead Iodide Perovskites. <i>ACS Energy Letters</i> , 2020, 5, 347-352. | 17.4 | 55 |
| 48 | Charge Compensating Defects in Methylammonium Lead Iodide Perovskite Suppressed by Formamidinium Inclusion. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 121-128. | 4.6 | 15 |
| 49 | Low-bandgap mixed tin-lead iodide perovskites with reduced methylammonium for simultaneous enhancement of solar cell efficiency and stability. <i>Nature Energy</i> , 2020, 5, 768-776. | 39.5 | 165 |
| 50 | Arylammonium-Assisted Reduction of the Open-Circuit Voltage Deficit in Wide-Bandgap Perovskite Solar Cells: The Role of Suppressed Ion Migration. <i>ACS Energy Letters</i> , 2020, 5, 2560-2568. | 17.4 | 131 |
| 51 | Simple descriptor derived from symbolic regression accelerating the discovery of new perovskite catalysts. <i>Nature Communications</i> , 2020, 11, 3513. | 12.8 | 184 |
| 52 | InGaN/Si Double-Junction Photocathode for Unassisted Solar Water Splitting. <i>ACS Energy Letters</i> , 2020, 5, 3741-3751. | 17.4 | 49 |
| 53 | A Multi-functional Molecular Modifier Enabling Efficient Large-Area Perovskite Light-Emitting Diodes. <i>Joule</i> , 2020, 4, 1977-1987. | 24.0 | 111 |
| 54 | Narrow-Bandgap Mixed Lead/Tin-Based 2D Dion-Jacobson Perovskites Boost the Performance of Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 15049-15057. | 13.7 | 103 |

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|----|--|------|-----------|
| 55 | Effects of post-deposition CdCl ₂ annealing on electronic properties of CdTe solar cells. Solar Energy, 2020, 211, 938-948. | 6.1 | 9 |
| 56 | Semi-transparent p-type barium copper sulfide as a back contact interface layer for cadmium telluride solar cells. Solar Energy Materials and Solar Cells, 2020, 218, 110764. | 6.2 | 10 |
| 57 | Back-Surface Passivation of CdTe Solar Cells Using Solution-Processed Oxidized Aluminum. ACS Applied Materials & Interfaces, 2020, 12, 51337-51343. | 8.0 | 15 |
| 58 | CuSCN as the Back Contact for Efficient ZMO/CdTe Solar Cells. Materials, 2020, 13, 1991. | 2.9 | 13 |
| 59 | The 2020 photovoltaic technologies roadmap. Journal Physics D: Applied Physics, 2020, 53, 493001. | 2.8 | 274 |
| 60 | Interaction engineering in organic-inorganic hybrid perovskite solar cells. Materials Horizons, 2020, 7, 2208-2236. | 12.2 | 35 |
| 61 | 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. | 6.2 | 33 |
| 62 | Influence of Charge Transport Layers on Capacitance Measured in Halide Perovskite Solar Cells. Joule, 2020, 4, 644-657. | 24.0 | 69 |
| 63 | Effects of intrinsic and atmospherically induced defects in narrow bandgap (FASnI ₃) _x (MAPbI ₃) _{1-x} perovskite films and solar cells. Journal of Chemical Physics, 2020, 152, 064705. | 3.0 | 26 |
| 64 | 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. | 8.0 | 27 |
| 65 | In Situ Tin(II) Complex Antisolvent Process Featuring Simultaneous Quasi-Core-Shell Structure and Heterojunction for Improving Efficiency and Stability of Low-Bandgap Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1903013. | 19.5 | 31 |
| 66 | Is Cs ₂ TiBr ₆ a promising Pb-free perovskite for solar energy applications?. Journal of Materials Chemistry A, 2020, 8, 4049-4054. | 10.3 | 62 |
| 67 | Maximize CdTe solar cell performance through copper activation engineering. Nano Energy, 2020, 73, 104835. | 16.0 | 35 |
| 68 | Ultrafast Control of Excitonic Rashba Fine Structure by Phonon Coherence in the Metal Halide Perovskite χ_{CH}^3 . Physical Review Letters, 2020, 124, 157401. | 7.8 | 32 |
| 69 | Cryogenic spatial-temporal imaging of surface photocarrier dynamics in MAPbI ₃ films at the single grain level. AIP Advances, 2020, 10, . | 1.3 | 2 |
| 70 | Lead chloride perovskites for p-type transparent conductors: A critical theoretical reevaluation. Physical Review Materials, 2020, 4, . | 2.4 | 8 |
| 71 | Non-contacting optical probing of photovoltaic device performance. , 2020, , . | | 1 |
| 72 | Solution Processed CuCl treatment for efficient CdS/CdTe Solar Cells. , 2020, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Lead-Free Metal Halide Perovskites for Solar Cell Applications: A Theoretical Perspective. , 2020, , . | | 0 |
| 74 | Incorporation of Arsenic in CdSe/CdTe Solar Cells During Close Spaced Sublimation of CdTe:As. , 2020, , . | | 3 |
| 75 | Role of Surface Recombination Velocity and Initial Fermi Level Offset on Bifacial Thin Film Devices. , 2020, , . | | 0 |
| 76 | 21.1% Efficient Space Perovskite/Si Four-Terminal Tandem Solar Cells. , 2020, , . | | 3 |
| 77 | Open-circuit Voltage Exceeding 840 mV for All-Sputtered CdS/CdTe Devices. , 2020, , . | | 5 |
| 78 | Oxide perovskites, double perovskites and derivatives for electrocatalysis, photocatalysis, and photovoltaics. Energy and Environmental Science, 2019, 12, 442-462. | 30.8 | 433 |
| 79 | Measurement of band offsets and shunt resistance in CdTe solar cells through temperature and intensity dependence of open circuit voltage and photoluminescence. Solar Energy, 2019, 189, 389-397. | 6.1 | 9 |
| 80 | A dithieno[3,2-b:2'-b',3'-d]pyrrole-cored four-arm hole transporting material for over 19% efficiency dopant-free perovskite solar cells. Journal of Materials Chemistry C, 2019, 7, 9455-9459. | 5.5 | 23 |
| 81 | Dithieno[3,2-b:2'-b',3'-d]pyrrolâ€Cored Hole Transport Material Enabling Over 21% Efficiency Dopantâ€Free Perovskite Solar Cells. Advanced Functional Materials, 2019, 29, 1904300. | 14.9 | 114 |
| 82 | Dithieno[3,2-b:2'-b',3'-d]pyrrole Cored pâ€Type Semiconductors Enabling 20â€% Efficiency Dopantâ€Free Perovskite Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 13717-13721. | 13.8 | 108 |
| 83 | Dithieno[3,2-b:2'-b',3'-d]pyrrole Cored pâ€Type Semiconductors Enabling 20â€% Efficiency Dopantâ€Free Perovskite Solar Cells. Angewandte Chemie, 2019, 131, 13855-13859. | 2.0 | 16 |
| 84 | Buffer/absorber interface recombination reduction and improvement of back-contact barrier height in CdTe solar cells. Thin Solid Films, 2019, 685, 385-392. | 1.8 | 15 |
| 85 | Bimolecular Additives Improve Wide-Band-Gap Perovskites for Efficient Tandem Solar Cells with CIGS. Joule, 2019, 3, 1734-1745. | 24.0 | 227 |
| 86 | 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. | 8.1 | 24 |
| 87 | Spontaneous low-temperature crystallization of FAPbI_3 for highly efficient perovskite solar cells. Science Bulletin, 2019, 64, 1608-1616. | 9.0 | 58 |
| 88 | Achieving High-Quality Sn-Pb Perovskite Films on Complementary Metal-Oxide-Semiconductor-Compatible Metal/Silicon Substrates for Efficient Imaging Array. ACS Nano, 2019, 13, 11800-11808. | 14.6 | 40 |
| 89 | Perovskiteâ€a Perfect Top Cell for Tandem Devices to Break the Sâ€Q Limit. Advanced Science, 2019, 6, 1801704. | 11.2 | 80 |
| 90 | A Cu_3PS_4 nanoparticle hole selective layer for efficient inverted perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 4604-4610. | 10.3 | 29 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 91 | Irradiance and temperature considerations in the design and deployment of high annual energy yield perovskite/CIGS tandems. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1841-1851. | 4.9 | 30 |
| 92 | Wide-bandgap, low-bandgap, and tandem perovskite solar cells. <i>Semiconductor Science and Technology</i> , 2019, 34, 093001. | 2.0 | 89 |
| 93 | Parametric Optical Property Database for CdSe $_{1-x}$ S $_x$ Alloys. <i>Electronic Materials Letters</i> , 2019, 15, 500-504. | 2.2 | 6 |
| 94 | Solution-processed copper (I) thiocyanate (CuSCN) for highly efficient CdSe/CdTe thin-film solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 665-672. | 8.1 | 37 |
| 95 | Carrier lifetimes of $\sim 1 \mu\text{s}$ in Sn-Pb perovskites enable efficient all-perovskite tandem solar cells. <i>Science</i> , 2019, 364, 475-479. | 12.6 | 781 |
| 96 | Achieving a high open-circuit voltage in inverted wide-bandgap perovskite solar cells with a graded perovskite homojunction. <i>Nano Energy</i> , 2019, 61, 141-147. | 16.0 | 152 |
| 97 | Low-reflection, (110)-orientation-preferred CsPbBr $_3$ nanonet films for application in high-performance perovskite photodetectors. <i>Nanoscale</i> , 2019, 11, 9302-9309. | 5.6 | 38 |
| 98 | Eliminating S-Kink To Maximize the Performance of MgZnO/CdTe Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 2896-2903. | 5.1 | 60 |
| 99 | Improving Performance and Stability of Planar Perovskite Solar Cells through Grain Boundary Passivation with Block Copolymers. <i>Solar Rrl</i> , 2019, 3, 1900078. | 5.8 | 40 |
| 100 | From Lead Halide Perovskites to Lead-Free Metal Halide Perovskites and Perovskite Derivatives. <i>Advanced Materials</i> , 2019, 31, e1803792. | 21.0 | 621 |
| 101 | Low-Bandgap Mixed Tin-Lead Perovskites and Their Applications in All-Perovskite Tandem Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1808801. | 14.9 | 133 |
| 102 | Trifluoroacetate induced small-grained CsPbBr $_3$ perovskite films result in efficient and stable light-emitting devices. <i>Nature Communications</i> , 2019, 10, 665. | 12.8 | 350 |
| 103 | A new metal-organic open framework enabling facile synthesis of carbon encapsulated transition metal phosphide/sulfide nanoparticle electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7168-7178. | 10.3 | 50 |
| 104 | Atmospherically induced defects in (FASn $_3$) $_{0.6}$ (MAPb $_3$) $_{0.4}$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 175102. | 2.8 | 7 |
| 105 | Operando Microscopy Characterization of Perovskite Solar Cells. , 2019, , . | | 1 |
| 106 | Defect Analysis in CSS and Sputtered CdSexTe1-x Thin Films. , 2019, , . | | 1 |
| 107 | Optoelectronic Characterization of Emerging Solar Absorber Cu $_3$ AsS $_4$. , 2019, , . | | 3 |
| 108 | ZnTe Back Buffer Layer to Enhance the Efficiency of CdS/CdTe Solar Cells. , 2019, , . | | 5 |

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| 109 | Cost analysis of thin film tandem solar cells using real world energy yield modelling. , 2019, , . | | 0 |
| 110 | Get rid of S-kink in MZO/CdTe Solar Cells by Performing CdCl ₂ Annealing without Oxygen. , 2019, , . | | 2 |
| 111 | Effects of Fabrication Atmosphere on Bulk and Back Interface Defects of CdTe Solar Cells with CdS and MgZnO Buffers. , 2019, , . | | 1 |
| 112 | Monolithic Two-Terminal All-Perovskite Tandem Solar Cells with Power Conversion Efficiency Exceeding 21%. , 2019, , . | | 3 |
| 113 | Hole-Induced Spontaneous Mutual Annihilation of Dislocation Pairs. Journal of Physical Chemistry Letters, 2019, 10, 7421-7425. | 4.6 | 0 |
| 114 | Helicity-dependent terahertz photocurrent and phonon dynamics in hybrid metal halide perovskites. Journal of Chemical Physics, 2019, 151, 244706. | 3.0 | 16 |
| 115 | Efficient sky-blue perovskite light-emitting diodes via photoluminescence enhancement. Nature Communications, 2019, 10, 5633. | 12.8 | 267 |
| 116 | Reducing Saturation Current Density to Realize High Efficiency Low Bandgap Mixed Tin Lead Halide Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803135. | 19.5 | 255 |
| 117 | Atomistic Mechanism of Broadband Emission in Metal Halide Perovskites. Journal of Physical Chemistry Letters, 2019, 10, 501-506. | 4.6 | 190 |
| 118 | The Effects of Hydrogen Iodide Back Surface Treatment on CdTe Solar Cells. Solar Rrl, 2019, 3, 1800304. | 5.8 | 29 |
| 119 | Unraveling the Impact of Halide Mixing on Perovskite Stability. Journal of the American Chemical Society, 2019, 141, 3515-3523. | 13.7 | 116 |
| 120 | Bandgap Engineering of Stable Lead-Free Oxide Double Perovskites for Photovoltaics. Advanced Materials, 2018, 30, e1705901. | 21.0 | 57 |
| 121 | Effective Carrier Concentration Tuning of SnO ₂ Quantum Dot Electron Selective Layers for High Performance Planar Perovskite Solar Cells. Advanced Materials, 2018, 30, e1706023. | 21.0 | 333 |
| 122 | Self-Powered All-Inorganic Perovskite Microcrystal Photodetectors with High Detectivity. Journal of Physical Chemistry Letters, 2018, 9, 2043-2048. | 4.6 | 123 |
| 123 | Solution-Processed Nb-Substituted BaBiO ₃ Double Perovskite Thin Films for Photoelectrochemical Water Reduction. Chemistry of Materials, 2018, 30, 1017-1031. | 6.7 | 45 |
| 124 | Roles of Pseudo-Closed s ² Orbitals for Different Intrinsic Hole Generation between Tl-Bi and In-Bi Bromide Double Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 258-262. | 4.6 | 27 |
| 125 | Barium Bismuth Niobate Double Perovskite/Tungsten Oxide Nanosheet Photoanode for High Performance Photoelectrochemical Water Splitting. Advanced Energy Materials, 2018, 8, 1701655. | 19.5 | 62 |
| 126 | A New Hole Transport Material for Efficient Perovskite Solar Cells With Reduced Device Cost. Solar Rrl, 2018, 2, 1700175. | 5.8 | 31 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 127 | Four-Terminal All-Perovskite Tandem Solar Cells Achieving Power Conversion Efficiencies Exceeding 23%. ACS Energy Letters, 2018, 3, 305-306. | 17.4 | 219 |
| 128 | Double Coating for the Enhancement of the Performance in a MA _{0.7} FA _{0.3} PbBr ₃ Photodetector. ACS Photonics, 2018, 5, 2100-2105. | 6.6 | 9 |
| 129 | Enhanced Grain Size and Crystallinity in CH ₃ NH ₃ PbI ₃ Perovskite Films by Metal Additives to the Single-Step Solution Fabrication Process. MRS Advances, 2018, 3, 3237-3242. | 0.9 | 26 |
| 130 | Stability, Electronic and Optical Properties of M ₄ X ₄ (M = Ga or In, X = Si, Te) QD Overlayers. ACS Energy Letters, 2018, 3, 10360-10364. | 3.1 | 7 |
| 131 | Stable and efficient CdS/Sb ₂ Se ₃ solar cells prepared by scalable close space sublimation. Nano Energy, 2018, 49, 346-353. | 16.0 | 130 |
| 132 | Controllable Multinary Alloy Electrodeposition for Thin-Film Solar Cell Fabrication: A Case Study of Kesterite Cu ₂ ZnSnS ₄ . IScience, 2018, 1, 55-71. | 4.1 | 21 |
| 133 | Effect of non-stoichiometric solution chemistry on improving the performance of wide-bandgap perovskite solar cells. Materials Today Energy, 2018, 7, 232-238. | 4.7 | 31 |
| 134 | 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. | 2.5 | 58 |
| 135 | Room-temperature fabrication of a delafossite CuCrO ₂ hole transport layer for perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 469-477. | 10.3 | 91 |
| 136 | A Versatile Optical Model Applied to CdTe and CdSe _{1-x} Te _x Alloys: Sensitivity to Film Composition and Relative Defect Density. , 2018, , . | | 1 |
| 137 | Electrical Impedance Characterization of CdTe Thin Film Solar Cells with Hydrogen Iodide Back Surface Etching. , 2018, , . | | 2 |
| 138 | Excess charge-carrier induced instability of hybrid perovskites. Nature Communications, 2018, 9, 4981. | 12.8 | 159 |
| 139 | Efficient two-terminal all-perovskite tandem solar cells enabled by high-quality low-bandgap absorber layers. Nature Energy, 2018, 3, 1093-1100. | 39.5 | 422 |
| 140 | All-Perovskite Tandem Solar Cell Showing Unprecedentedly High Open-Circuit Voltage. Joule, 2018, 2, 2206-2207. | 24.0 | 4 |
| 141 | Efficient and stable emission of warm-white light from lead-free halide double perovskites. Nature, 2018, 563, 541-545. | 27.8 | 1,451 |
| 142 | Photovoltaic Effect in Indium(I) Iodide Thin Films. Chemistry of Materials, 2018, 30, 8226-8232. | 6.7 | 13 |
| 143 | Formamidinium + Cesium Lead Triiodide Perovskite Thin Films: Optical Properties and Devices. , 2018, , . | | 1 |
| 144 | Impact of Epoxy Encapsulation on Device Stability of Large- Area Laser-Patterned Perovskite Solar Cells. , 2018, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 145 | 3D imaging compositional map in one-step growth of $\text{CH}_3\text{NH}_3\text{PbI}_3$, 2018, , . | | 1 |
| 146 | Manufacturing Cost Analysis of Perovskite Solar Modules in Single-Junction and All-Perovskite Tandem Configurations. , 2018, , . | | 11 |
| 147 | Optical Hall Effect of PV Device Materials. IEEE Journal of Photovoltaics, 2018, 8, 1793-1799. | 2.5 | 12 |
| 148 | Self-powered CsPbBr_3 nanowire photodetector with a vertical structure. Nano Energy, 2018, 53, 880-886. | 16.0 | 104 |
| 149 | Formamidinium + cesium lead triiodide perovskites: Discrepancies between thin film optical absorption and solar cell efficiency. Solar Energy Materials and Solar Cells, 2018, 188, 228-233. | 6.2 | 21 |
| 150 | Electrical and optical characterization of CdTe solar cells with CdS and CdSe buffersâ€”A comparative study. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, 052904. | 1.2 | 17 |
| 151 | Optical design of perovskite solar cells for applications in monolithic tandem configuration with CuInSe_2 bottom cells. MRS Advances, 2018, 3, 3111-3119. | 0.9 | 13 |
| 152 | Metalâ€”Organic Framework-Derived CoWP@C Composite Nanowire Electrocatalyst for Efficient Water Splitting. ACS Energy Letters, 2018, 3, 1434-1442. | 17.4 | 141 |
| 153 | Phase Stability and Electronic Structure of Prospective Sb-Based Mixed Sulfide and Iodide 3D Perovskite $(\text{CH}_3\text{NH}_3)_2\text{SbSI}_2$. Journal of Physical Chemistry Letters, 2018, 9, 3829-3833. | 4.6 | 24 |
| 154 | Pressure-Assisted Annealing Strategy for High-Performance Self-Powered All-Inorganic Perovskite Microcrystal Photodetectors. Journal of Physical Chemistry Letters, 2018, 9, 4714-4719. | 4.6 | 50 |
| 155 | Band Tail Engineering in Kesterite $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$ Thin-Film Solar Cells with 11.8% Efficiency. Journal of Physical Chemistry Letters, 2018, 9, 4555-4561. | 4.6 | 59 |
| 156 | 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. | 4.9 | 27 |
| 157 | Binary hole transport materials blending to linearly tune HOMO level for high efficiency and stable perovskite solar cells. Nano Energy, 2018, 51, 680-687. | 16.0 | 59 |
| 158 | Low Temperature Photoluminescence Spectroscopy of Defect and Interband Transitions in $\text{CdSe}_x\text{Te}_{1-x}$ Thin Films. MRS Advances, 2018, 3, 3293-3299. | 0.9 | 8 |
| 159 | Probing the origins of photodegradation in organicâ€”inorganic metal halide perovskites with time-resolved mass spectrometry. Sustainable Energy and Fuels, 2018, 2, 2460-2467. | 4.9 | 84 |
| 160 | Efficient and Stable Nonfullereneâ€”Graded Heterojunction Inverted Perovskite Solar Cells with Inorganic Ga_2O_3 Tunneling Protective Nanolayer. Advanced Functional Materials, 2018, 28, 1804128. | 14.9 | 76 |
| 161 | Electronic Properties of ns^2 Metal Halide Perovskites for Photovoltaic Applications. Materials and Energy, 2018, , 59-94. | 0.1 | 0 |
| 162 | Employing Overlayers To Improve the Performance of Cu_2BaSn_4 Thin Film based Photoelectrochemical Water Reduction Devices. Chemistry of Materials, 2017, 29, 916-920. | 6.7 | 61 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 163 | Advances and Obstacles on Perovskite Solar Cell Research from Material Properties to Photovoltaic Function. ACS Energy Letters, 2017, 2, 520-523. | 17.4 | 38 |
| 164 | Low-bandgap mixed tin-lead iodide perovskite absorbers with long carrier lifetimes for all-perovskite tandem solar cells. Nature Energy, 2017, 2, . | 39.5 | 634 |
| 165 | Intrinsic Instability of Cs ₂ In(I)M(III)X ₆ (M = Bi, Sb; X = Halogen) Double Perovskites: A Combined Density Functional Theory and Experimental Study. Journal of the American Chemical Society, 2017, 139, 6054-6057. | 13.7 | 253 |
| 166 | Understanding and Eliminating Hysteresis for Highly Efficient Planar Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700414. | 19.5 | 190 |
| 167 | Synergistic Effects of Lead Thiocyanate Additive and Solvent Annealing on the Performance of Wide-Bandgap Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 1177-1182. | 17.4 | 190 |
| 168 | Bandgap Engineering of Lead-Free Double Perovskite Cs ₂ AgBiBr ₆ through Trivalent Metal Alloying. Angewandte Chemie - International Edition, 2017, 56, 8158-8162. | 13.8 | 425 |
| 169 | Bandgap Engineering of Lead-Free Double Perovskite Cs ₂ AgBiBr ₆ through Trivalent Metal Alloying. Angewandte Chemie, 2017, 129, 8270-8274. | 2.0 | 40 |
| 170 | Synthesis and characterization of photoelectrochemical and photovoltaic Cu ₂ BaSnS ₄ thin films and solar cells. Journal of Materials Chemistry C, 2017, 5, 6406-6419. | 5.5 | 49 |
| 171 | Effects of organic cations on the defect physics of tin halide perovskites. Journal of Materials Chemistry A, 2017, 5, 15124-15129. | 10.3 | 213 |
| 172 | Parity-Forbidden Transitions and Their Impact on the Optical Absorption Properties of Lead-Free Metal Halide Perovskites and Double Perovskites. Journal of Physical Chemistry Letters, 2017, 8, 2999-3007. | 4.6 | 441 |
| 173 | Compositional and morphological engineering of mixed cation perovskite films for highly efficient planar and flexible solar cells with reduced hysteresis. Nano Energy, 2017, 35, 223-232. | 16.0 | 162 |
| 174 | Perovskite ink with wide processing window for scalable high-efficiency solar cells. Nature Energy, 2017, 2, . | 39.5 | 499 |
| 175 | A layered Na ^x Ni _y Fe ^y O ₂ double oxide oxygen evolution reaction electrocatalyst for highly efficient water-splitting. Energy and Environmental Science, 2017, 10, 121-128. | 30.8 | 201 |
| 176 | Oxygenated CdS Buffer Layers Enabling High Open-Circuit Voltages in Earth-Abundant Cu ₂ BaSnS ₄ Thin-Film Solar Cells. Advanced Energy Materials, 2017, 7, 1601803. | 19.5 | 102 |
| 177 | Bandgap Engineering of Barium Bismuth Niobate Double Perovskite for Photoelectrochemical Water Oxidation. Advanced Energy Materials, 2017, 7, 1602260. | 19.5 | 67 |
| 178 | Cu-based quaternary chalcogenide Cu ₂ BaSnS ₄ thin films acting as hole transport layers in inverted perovskite CH ₃ NH ₃ PbI ₃ solar cells. Journal of Materials Chemistry A, 2017, 5, 2920-2928. | 10.3 | 57 |
| 179 | Interface engineering in planar perovskite solar cells: energy level alignment, perovskite morphology control and high performance achievement. Journal of Materials Chemistry A, 2017, 5, 1658-1666. | 10.3 | 364 |
| 180 | Searching for promising new perovskite-based photovoltaic absorbers: the importance of electronic dimensionality. Materials Horizons, 2017, 4, 206-216. | 12.2 | 553 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 181 | Quantitative analysis of time-resolved microwave conductivity data. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 493002. | 2.8 | 74 |
| 182 | Cost-effective hole transporting material for stable and efficient perovskite solar cells with fill factors up to 82%. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23319-23327. | 10.3 | 40 |
| 183 | Heterovalent B-Site Co-Alloying Approach for Halide Perovskite Bandgap Engineering. <i>ACS Energy Letters</i> , 2017, 2, 2486-2490. | 17.4 | 44 |
| 184 | Junction Quality of SnO ₂ -Based Perovskite Solar Cells Investigated by Nanometer-Scale Electrical Potential Profiling. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38373-38380. | 8.0 | 56 |
| 185 | Perovskite Photovoltaics: The Path to a Printable Terawatt-Scale Technology. <i>ACS Energy Letters</i> , 2017, 2, 2540-2544. | 17.4 | 64 |
| 186 | Progress in Theoretical Study of Metal Halide Perovskite Solar Cell Materials. <i>Advanced Energy Materials</i> , 2017, 7, 1701136. | 19.5 | 257 |
| 187 | Roadmap on solar water splitting: current status and future prospects. <i>Nano Futures</i> , 2017, 1, 022001. | 2.2 | 159 |
| 188 | Water Vapor Treatment of Low-Temperature Deposited SnO ₂ Electron Selective Layers for Efficient Flexible Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 2118-2124. | 17.4 | 161 |
| 189 | Electronic band structures and excitonic properties of delafossites: A GW-BSE study. <i>Journal of Applied Physics</i> , 2017, 122, 085104. | 2.5 | 22 |
| 190 | Highly Sensitive Low-Bandgap Perovskite Photodetectors with Response from Ultraviolet to the Near-Infrared Region. <i>Advanced Functional Materials</i> , 2017, 27, 1703953. | 14.9 | 148 |
| 191 | Tracking the maximum power point of hysteretic perovskite solar cells using a predictive algorithm. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10152-10157. | 5.5 | 18 |
| 192 | Chemical Origin of the Stability Difference between Copper(I)- and Silver(I)-Based Halide Double Perovskites. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12107-12111. | 13.8 | 89 |
| 193 | Environmental analysis of perovskites and other relevant solar cell technologies in a tandem configuration. <i>Energy and Environmental Science</i> , 2017, 10, 1874-1884. | 30.8 | 104 |
| 194 | Chemical Origin of the Stability Difference between Copper(I)- and Silver(I)-Based Halide Double Perovskites. <i>Angewandte Chemie</i> , 2017, 129, 12275-12279. | 2.0 | 79 |
| 195 | One-step facile synthesis of a simple carbazole-cored hole transport material for high-performance perovskite solar cells. <i>Nano Energy</i> , 2017, 40, 163-169. | 16.0 | 89 |
| 196 | An organic-inorganic perovskite ferroelectric with large piezoelectric response. <i>Science</i> , 2017, 357, 306-309. | 12.6 | 744 |
| 197 | Optical response of mixed methylammonium lead iodide and formamidinium tin iodide perovskite thin films. <i>AIP Advances</i> , 2017, 7, . | 1.3 | 24 |
| 198 | Understanding the physical properties of hybrid perovskites for photovoltaic applications. <i>Nature Reviews Materials</i> , 2017, 2, . | 48.7 | 927 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 199 | Reducing Hysteresis and Enhancing Performance of Perovskite Solar Cells Using Low-Temperature Processed SnO_2 Nanosheets as Electron Selective Layers. <i>Small</i> , 2017, 13, 1601769. | 10.0 | 183 |
| 200 | Understanding individual defects in CdTe thin-film solar cells via STEM: From atomic structure to electrical activity. <i>Materials Science in Semiconductor Processing</i> , 2017, 65, 64-76. | 4.0 | 36 |
| 201 | Locating the electrical junctions in $\text{Cu}(\text{In,Ga})\text{Se}_2$ and $\text{Cu}_2\text{ZnSnSe}_4$ solar cells by scanning capacitance spectroscopy. <i>Progress in Photovoltaics: Research and Applications</i> , 2017, 25, 33-40. | 8.1 | 10 |
| 202 | Distant-Atom Mutation for Better Earth-Abundant Light Absorbers: A Case Study of $\text{Cu}_2\text{BaSnSe}_4$. <i>ACS Energy Letters</i> , 2017, 2, 29-35. | 17.4 | 68 |
| 203 | Characterization of Single-Source Deposited Close-Space Sublimation $\text{CdTe}_x\text{Se}_{1-x}$ Thin Film Solar Cells. , 2017, , . | | 3 |
| 204 | Optical Properties of and Alloys and Their Application for CdTe Photovoltaics. , 2017, , . | | 6 |
| 205 | Close-Space Sublimated CdTe Solar Cells with Co-Sputtered $\text{CdS}_x\text{Se}_{1-x}$ Alloy Window Layers. , 2017, , . | | 3 |
| 206 | Optical Evaluation of Perovskite Films in and for Solar Cell Device Structures. , 2017, , . | | 2 |
| 207 | Life cycle toxicity analysis of emerging PV cells. , 2017, , . | | 1 |
| 208 | Imaging the Effect of CdSe Window Layers in CdTe Photovoltaics. , 2017, , . | | 0 |
| 209 | Characterizing recombination in CdTe-based solar cells by the temperature and excitation dependence of open-circuit voltage and photoluminescence. , 2017, , . | | 0 |
| 210 | Global structure search and physical properties of Os_2C . <i>Journal of Physics Condensed Matter</i> , 2016, 28, 365502. | 1.8 | 1 |
| 211 | Low-temperature plasma-enhanced atomic layer deposition of tin oxide electron selective layers for highly efficient planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12080-12087. | 10.3 | 210 |
| 212 | Stable Organic-Inorganic Perovskite Solar Cells without Hole-Conductor Layer Achieved via Cell Structure Design and Contact Engineering. <i>Advanced Functional Materials</i> , 2016, 26, 4866-4873. | 14.9 | 84 |
| 213 | Atom Probe Tomography of Interfacial Segregation in CdTe-based Solar Cells. <i>Microscopy and Microanalysis</i> , 2016, 22, 646-647. | 0.4 | 0 |
| 214 | Optical properties and degradation monitoring of $\text{CH}_3\text{NH}_3\text{PbI}_3$. , 2016, , . | | 0 |
| 215 | Wild band edges: The role of bandgap grading and band-edge fluctuations in high-efficiency chalcogenide devices. , 2016, , . | | 11 |
| 216 | Determination of the electrical junction in $\text{Cu}(\text{In, Ga})\text{Se}_2$ and $\text{Cu}_2\text{ZnSnSe}_4$ solar cells with 20-nm spatial resolution. , 2016, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 217 | Life cycle toxicity analysis of emerging PV cells. , 2016, , . | | 2 |
| 218 | Structural and compositional dependence of the CdTe _{1-x} Se _x alloy layer photoactivity in CdTe-based solar cells. Nature Communications, 2016, 7, 12537. | 12.8 | 108 |
| 219 | Column-by-column observation of dislocation motion in CdTe: Dynamic scanning transmission electron microscopy. Applied Physics Letters, 2016, 109, . | 3.3 | 6 |
| 220 | Characterization of CdS/CdSe window layers in CdTe thin film solar cells. , 2016, , . | | 4 |
| 221 | RF-sputtered Cd ₂ SnO ₄ for flexible glass CdTe solar cells. , 2016, , . | | 3 |
| 222 | Close-space sulfurization of sputtered metal precursors for Cu ₂ ZnSnS ₄ thin-film solar cells. , 2016, , . | | 1 |
| 223 | Nanometer-scale electrical potential profiling across perovskite solar cells. , 2016, , . | | 3 |
| 224 | Effects of oxygen partial pressure, deposition temperature, and annealing on the optical response of CdS:O thin films as studied by spectroscopic ellipsometry. Journal of Applied Physics, 2016, 120, . | 2.5 | 9 |
| 225 | Application of copper thiocyanate for high open-circuit voltages of CdTe solar cells. Progress in Photovoltaics: Research and Applications, 2016, 24, 94-101. | 8.1 | 22 |
| 226 | Life Cycle Assessment (LCA) of perovskite PV cells projected from lab to fab. Solar Energy Materials and Solar Cells, 2016, 156, 157-169. | 6.2 | 168 |
| 227 | APT mass spectrometry and SEM data for CdTe solar cells. Data in Brief, 2016, 7, 779-785. | 1.0 | 1 |
| 228 | Optical monitoring of CH ₃ NH ₃ PbI ₃ thin films upon atmospheric exposure. Journal Physics D: Applied Physics, 2016, 49, 405102. | 2.8 | 18 |
| 229 | Fatigue behavior of planar CH ₃ NH ₃ PbI ₃ perovskite solar cells revealed by light on/off diurnal cycling. Nano Energy, 2016, 27, 509-514. | 16.0 | 76 |
| 230 | Thermodynamic Stability and Defect Chemistry of Bismuth-Based Lead-Free Double Perovskites. ChemSusChem, 2016, 9, 2628-2633. | 6.8 | 273 |
| 231 | Defect Physics of CH ₃ NH ₃ PbX ₃ (X=Al, Br, Cl) Perovskites. , 2016, , 79-105. | | 19 |
| 232 | Lead-Free Inverted Planar Formamidinium Tin Triiodide Perovskite Solar Cells Achieving Power Conversion Efficiencies up to 6.22%. Advanced Materials, 2016, 28, 9333-9340. | 21.0 | 636 |
| 233 | Defect properties of the two-dimensional (CH ₃ NH ₃) ₂ Pb(SCN) ₂ I ₂ perovskite: a density-functional theory study. Physical Chemistry Chemical Physics, 2016, 18, 25786-25790. | 2.8 | 32 |
| 234 | Earth-Abundant Orthorhombic BaCu ₂ Sn(S _x) ₄ (x=0.83) Thin Film for Solar Energy Conversion. ACS Energy Letters, 2016, 1, 583-588. | 17.4 | 65 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 235 | Cooperative tin oxide fullerene electron selective layers for high-performance planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14276-14283. | 10.3 | 204 |
| 236 | Earth-abundant trigonal $\text{BaCu}_2\text{Sn}(\text{Se}_x\text{S}_{1-x})_4$ ($x = 0, 0.09, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1$) thin films for lead-free perovskite solar cell fabrication. <i>RSC Advances</i> , 2016, 6, 90248-90254. | 10.3 | 32 |
| 237 | Crystal Structure of AgBi_2I_7 Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3903-3907. | 4.6 | 64 |
| 238 | Thermally evaporated methylammonium tin triiodide thin films for lead-free perovskite solar cell fabrication. <i>RSC Advances</i> , 2016, 6, 90248-90254. | 3.6 | 114 |
| 239 | Fabrication of Efficient Low-Bandgap Perovskite Solar Cells by Combining Formamidinium Tin Iodide with Methylammonium Lead Iodide. <i>Journal of the American Chemical Society</i> , 2016, 138, 12360-12363. | 13.7 | 362 |
| 240 | Improved Performance of Electroplated CZTS Thin-Film Solar Cells with Bifacial Configuration. <i>ChemSusChem</i> , 2016, 9, 2149-2158. | 6.8 | 40 |
| 241 | Perovskite solar cells: High voltage from ordered fullerenes. <i>Nature Energy</i> , 2016, 1, . | 39.5 | 9 |
| 242 | TiO_2 - ZnS Cascade Electron Transport Layer for Efficient Formamidinium Tin Iodide Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016, 138, 14998-15003. | 13.7 | 220 |
| 243 | Improving the Performance of Formamidinium and Cesium Lead Triiodide Perovskite Solar Cells using Lead Thiocyanate Additives. <i>ChemSusChem</i> , 2016, 9, 3288-3297. | 6.8 | 178 |
| 244 | Employing Lead Thiocyanate Additive to Reduce the Hysteresis and Boost the Fill Factor of Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2016, 28, 5214-5221. | 21.0 | 487 |
| 245 | Trigonal $\text{Cu}_2\text{-II-Sn-VI}_4$ (II = Ba, Sr and VI = S, Se) quaternary compounds for earth-abundant photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4828-4834. | 2.8 | 94 |
| 246 | Alloying and Defect Control within Chalcogenide Perovskites for Optimized Photovoltaic Application. <i>Chemistry of Materials</i> , 2016, 28, 821-829. | 6.7 | 175 |
| 247 | Photovoltaic Properties of Two-Dimensional $(\text{CH}_3\text{NH}_3)_2\text{Pb}(\text{SCN})_2$ Perovskite: A Combined Experimental and Density Functional Theory Study. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1213-1218. | 4.6 | 135 |
| 248 | Nanoscale doping profiles within CdTe grain boundaries and at the CdS/CdTe interface revealed by atom probe tomography and STEM EBIC. <i>Solar Energy Materials and Solar Cells</i> , 2016, 150, 95-101. | 6.2 | 35 |
| 249 | Viability of Lead-Free Perovskites with Mixed Chalcogen and Halogen Anions for Photovoltaic Applications. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6435-6441. | 3.1 | 72 |
| 250 | Thin-Film Deposition and Characterization of a Sn-Deficient Perovskite Derivative Cs_2Sn_6 . <i>Chemistry of Materials</i> , 2016, 28, 2315-2322. | 6.7 | 329 |
| 251 | Manipulating Crystallization of Organolead Mixed-Halide Thin Films in Antisolvent Baths for Wide-Bandgap Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 2232-2237. | 8.0 | 91 |
| 252 | Annealing-free efficient vacuum-deposited planar perovskite solar cells with evaporated fullerenes as electron-selective layers. <i>Nano Energy</i> , 2016, 19, 88-97. | 16.0 | 125 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 253 | PEDOT:PSS as back contact for CdTe solar cells and the effect of PEDOT:PSS conductivity on device performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 1057-1061. | 2.2 | 13 |
| 254 | Chapter 6. Structural, Electronic, and Optical Properties of Lead Halide Perovskites. <i>RSC Energy and Environment Series</i> , 2016, , 177-201. | 0.5 | 0 |
| 255 | CdSe _{1-x} Te _x Phase Segregation in CdSe/CdTe Based Solar Cells. <i>Microscopy and Microanalysis</i> , 2015, 21, 691-692. | 0.4 | 2 |
| 256 | Surface stability and the selection rules of substrate orientation for optimal growth of epitaxial II-VI semiconductors. <i>Applied Physics Letters</i> , 2015, 107, 141607. | 3.3 | 5 |
| 257 | Recombination by grain-boundary type in CdTe. <i>Journal of Applied Physics</i> , 2015, 118, . | 2.5 | 73 |
| 258 | Texture Manipulation and Its Impact on Electrical Properties of Zinc Phosphide Thin Films. <i>Journal of Electronic Materials</i> , 2015, 44, 2566-2573. | 2.2 | 1 |
| 259 | Low-Temperature Solution-Processed Tin Oxide as an Alternative Electron Transporting Layer for Efficient Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 6730-6733. | 13.7 | 1,045 |
| 260 | Physics of grain boundaries in polycrystalline photovoltaic semiconductors. <i>Journal of Applied Physics</i> , 2015, 117, . | 2.5 | 52 |
| 261 | Amorphous Cu-Sb-S based semiconductors for thin-film solar cell applications. , 2015, , . | | 0 |
| 262 | Evolution of the optical response of sputtered CdS:O as a function of temperature. , 2015, , . | | 0 |
| 263 | Spectroscopic ellipsometry studies of CH ₃ NH ₃ PbX ₃ thin films and their growth evolution. , 2015, , . | | 5 |
| 264 | The Interfacial Reaction at ITO Back Contact in Kesterite CZTSSe Bifacial Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 3043-3052. | 6.7 | 46 |
| 265 | Development of scanning capacitance spectroscopy of CIGS solar cells. , 2015, , . | | 2 |
| 266 | Current enhancement of CdTe-based solar cells. , 2015, , . | | 1 |
| 267 | Opto-electronic characterization of CdTe solar cells from TCO to back contact with nano-scale CL probe. , 2015, , . | | 1 |
| 268 | Co-electroplated kesterite bifacial thin film solar cells. , 2015, , . | | 1 |
| 269 | Study of close space sublimation (CSS) Grown SnS thin-films for solar cell applications. , 2015, , . | | 3 |
| 270 | Enhancing the efficiency of CdTe solar cells using a nanocrystalline iron pyrite film as an interface layer. , 2015, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 271 | Effects of oxygen plasma treatment on the performance of CdTe thin-film solar cells. , 2015, , . | | 1 |
| 272 | Superior Photovoltaic Properties of Lead Halide Perovskites: Insights from First-Principles Theory. Journal of Physical Chemistry C, 2015, 119, 5253-5264. | 3.1 | 246 |
| 273 | Thin-Film Preparation and Characterization of Cs ₃ Sb ₂ I ₉ : A Lead-Free Layered Perovskite Semiconductor. Chemistry of Materials, 2015, 27, 5622-5632. | 6.7 | 653 |
| 274 | Unipolar self-doping behavior in perovskite CH ₃ NH ₃ PbBr ₃ . Applied Physics Letters, 2015, 106, . | 3.3 | 181 |
| 275 | Iron pyrite nanocrystal film serves as a copper-free back contact for polycrystalline CdTe thin film solar cells. Solar Energy Materials and Solar Cells, 2015, 140, 108-114. | 6.2 | 58 |
| 276 | Origin of High Electronic Quality in Structurally Disordered CH ₃ NH ₃ PbI ₃ and the Passivation Effect of Cl and O at Grain Boundaries. Advanced Electronic Materials, 2015, 1, 1500044. | 5.1 | 175 |
| 277 | High temperature CSS processed CdTe solar cells on commercial SnO ₂ :F/SnO ₂ coated soda-lime glass substrates. Journal of Materials Science: Materials in Electronics, 2015, 26, 4708-4715. | 2.2 | 8 |
| 278 | Co-electroplated Kesterite Bifacial Thin-Film Solar Cells: A Study of Sulfurization Temperature. ACS Applied Materials & Interfaces, 2015, 7, 10414-10428. | 8.0 | 31 |
| 279 | Novel ultra-incompressible phases of Ru ₂ C. Journal of Physics Condensed Matter, 2015, 27, 175505. | 1.8 | 1 |
| 280 | Efficient hole-blocking layer-free planar halide perovskite thin-film solar cells. Nature Communications, 2015, 6, 6700. | 12.8 | 358 |
| 281 | CdS/CdTe thin-film solar cells with Cu-free transition metal oxide/Au back contacts. Progress in Photovoltaics: Research and Applications, 2015, 23, 437-442. | 8.1 | 38 |
| 282 | A facile solvothermal growth of single crystal mixed halide perovskite CH ₃ NH ₃ Pb(Br _{1-x} Cl _x) ₃ . Chemical Communications, 2015, 51, 7820-7823. | 4.1 | 135 |
| 283 | Effects of annealing temperature of tin oxide electron selective layers on the performance of perovskite solar cells. Journal of Materials Chemistry A, 2015, 3, 24163-24168. | 10.3 | 186 |
| 284 | Efficient fully-vacuum-processed perovskite solar cells using copper phthalocyanine as hole selective layers. Journal of Materials Chemistry A, 2015, 3, 23888-23894. | 10.3 | 161 |
| 285 | Mechanisms of Electron-Beam-Induced Damage in Perovskite Thin Films Revealed by Cathodoluminescence Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 26904-26911. | 3.1 | 153 |
| 286 | Efficient planar perovskite solar cells using room-temperature vacuum-processed C ₆₀ electron selective layers. Journal of Materials Chemistry A, 2015, 3, 17971-17976. | 10.3 | 100 |
| 287 | Theoretical and experimental study of earth-abundant solar cell materials. , 2015, , . | | 0 |
| 288 | Causality in social life cycle impact assessment (SLCIA). International Journal of Life Cycle Assessment, 2015, 20, 1312-1323. | 4.7 | 24 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 289 | Current Enhancement of CdTe-Based Solar Cells. IEEE Journal of Photovoltaics, 2015, 5, 1492-1496. | 2.5 | 49 |
| 290 | LDA+U/GGA+U calculations of structural and electronic properties of CdTe: Dependence on the effective U parameter. Computational Materials Science, 2015, 98, 18-23. | 3.0 | 25 |
| 291 | Halide perovskite materials for solar cells: a theoretical review. Journal of Materials Chemistry A, 2015, 3, 8926-8942. | 10.3 | 1,114 |
| 292 | CdTe solar cells using combined ZnS/CdS window layers. , 2014, , . | | 3 |
| 293 | Defect Physics in Photovoltaic Materials Revealed by Combined High-Resolution Microscopy and Density-Functional Theory Calculation. Microscopy and Microanalysis, 2014, 20, 514-515. | 0.4 | 1 |
| 294 | Understanding Individual Defects in CdTe Solar Cells: From Atomic Structure to Electrical Activity. Microscopy and Microanalysis, 2014, 20, 518-519. | 0.4 | 1 |
| 295 | Effect of deposition temperature on reactively sputtered CdS:O. , 2014, , . | | 3 |
| 296 | Creating intermediate bands in ZnTe via co-alloying approach. Applied Physics Express, 2014, 7, 121201. | 2.4 | 7 |
| 297 | Interfaces of Zinc Phosphide Magnesium Schottky Diodes. IEEE Journal of Photovoltaics, 2014, 4, 1680-1682. | 2.5 | 1 |
| 298 | Sâ€Te Interdiffusion within Grains and Grain Boundaries in CdTe Solar Cells. IEEE Journal of Photovoltaics, 2014, 4, 1636-1643. | 2.5 | 28 |
| 299 | Cathodoluminescence Analysis of Grain Boundaries and Grain Interiors in Thin-Film CdTe. IEEE Journal of Photovoltaics, 2014, 4, 1671-1679. | 2.5 | 25 |
| 300 | Photoluminescence spectroscopy of Cadmium Telluride deep defects. , 2014, , . | | 8 |
| 301 | The effects of alkali metal diffusion on zinc phosphide thin films. , 2014, , . | | 1 |
| 302 | Enhancing the photo-currents of CdTe thin-film solar cells in both short and long wavelength regions. Applied Physics Letters, 2014, 105, . | 3.3 | 159 |
| 303 | Determination of Polarizationâ€Fields Across Polytype Interfaces in InAs Nanopillars. Advanced Materials, 2014, 26, 1052-1057. | 21.0 | 27 |
| 304 | CdTe thin-film solar cells with cobalt-phthalocyanine back contacts. Applied Physics Letters, 2014, 104, . | 3.3 | 23 |
| 305 | Performance of nanocrystalline iron pyrite as the back contact to CdS/CdTe solar cells. , 2014, , . | | 4 |
| 306 | Study of RF sputtered Cu<inf>3</inf>S<inf>4</inf>/SbS<inf>4</inf> thin-film solar cells. , 2014, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 307 | The possibility of optical excitations at the smallest gap of Cu-delafoosite nanocrystals. Journal Physics D: Applied Physics, 2014, 47, 405301. | 2.8 | 0 |
| 308 | Engineering Grain Boundaries in Cu ₂ ZnSnSe ₄ for Better Cell Performance: A First-Principle Study. Advanced Energy Materials, 2014, 4, 1300712. | 19.5 | 135 |
| 309 | Effects of growth process on the optical and electrical properties in Al-doped ZnO thin films. Journal of Applied Physics, 2014, 115, . | 2.5 | 24 |
| 310 | Direct synthesis of thermochromic VO ₂ through hydrothermal reaction. Journal of Solid State Chemistry, 2014, 212, 237-241. | 2.9 | 62 |
| 311 | Ultrathin CdTe Solar Cells with MoO ₃ ^x /Au Back Contacts. Journal of Electronic Materials, 2014, 43, 2783-2787. | 2.2 | 20 |
| 312 | Unusual defect physics in CH ₃ NH ₃ PbI ₃ perovskite solar cell absorber. Applied Physics Letters, 2014, 104, . | 3.3 | 2,142 |
| 313 | Post-deposition processing options for high-efficiency sputtered CdS/CdTe solar cells. Journal of Applied Physics, 2014, 115, 064502. | 2.5 | 38 |
| 314 | Grain-Boundary-Enhanced Carrier Collection in CdTe Solar Cells. Physical Review Letters, 2014, 112, 156103. | 7.8 | 258 |
| 315 | Unique Properties of Halide Perovskites as Possible Origins of the Superior Solar Cell Performance. Advanced Materials, 2014, 26, 4653-4658. | 21.0 | 1,735 |
| 316 | Nearly lattice matched all wurtzite CdSe/ZnTe type II core-shell nanowires with epitaxial interfaces for photovoltaics. Nanoscale, 2014, 6, 3679-3685. | 5.6 | 34 |
| 317 | Effects of spin speed on the properties of spin-coated Cu ₂ ZnSnS ₄ thin films and solar cells based on DMSO solution. , 2014, , . | | 3 |
| 318 | The effects of high temperature processing on the structural and optical properties of oxygenated CdS window layers in CdTe solar cells. Journal of Applied Physics, 2014, 116, 044506. | 2.5 | 26 |
| 319 | Co-electroplated Cu ₂ ZnSnS ₄ thin-film solar cells: The role of precursor metallic composition. , 2014, , . | | 3 |
| 320 | Characteristics of In-Substituted CZTS Thin Film and Bifacial Solar Cell. ACS Applied Materials & Interfaces, 2014, 6, 21118-21130. | 8.0 | 85 |
| 321 | Characterization of ion-assisted, coevaporated CH ₃ NH ₃ PbI ₃ thin films. , 2014, , . | | 0 |
| 322 | Predictions for p-Type CH ₃ NH ₃ PbI ₃ Perovskites. Journal of Physical Chemistry C, 2014, 118, 25350-25354. | 3.1 | 71 |
| 323 | Anomalous Alloy Properties in Mixed Halide Perovskites. Journal of Physical Chemistry Letters, 2014, 5, 3625-3631. | 4.6 | 231 |
| 324 | Stability, transparency, and conductivity of Mg _x Zn _{1-x} O and Cd _x Zn _{1-x} O: Designing optimum transparency conductive oxides. Journal of Applied Physics, 2014, 115, . | 2.5 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 325 | Close-space sublimation grown CdS window layers for CdS/CdTe thin-film solar cells. Journal of Materials Science: Materials in Electronics, 2014, 25, 1991-1998. | 2.2 | 26 |
| 326 | Direct Imaging of Cl and Cu Induced Short-Circuit Efficiency Changes in CdTe Solar Cells. Advanced Energy Materials, 2014, 4, 1400454. | 19.5 | 79 |
| 327 | Column-by-Column Imaging of Dislocation Slip Processes in CdTe. Microscopy and Microanalysis, 2014, 20, 1054-1055. | 0.4 | 1 |
| 328 | Thin Films: Direct Imaging of Cl and Cu Induced Short-Circuit Efficiency Changes in CdTe Solar Cells (Adv. Energy Mater. 15/2014). Advanced Energy Materials, 2014, 4, . | 19.5 | 0 |
| 329 | Fabrication and characterization of high-efficiency CdTe-based thin-film solar cells on commercial SnO ₂ :F-coated soda-lime glass substrates. Thin Solid Films, 2013, 549, 30-35. | 1.8 | 73 |
| 330 | Carrier Separation at Dislocation Pairs in CdTe. Physical Review Letters, 2013, 111, 096403. | 7.8 | 51 |
| 331 | Structural, electronic, and optical properties of Cu ₃ V-VI ₄ compound semiconductors. Applied Physics Letters, 2013, 103, . | 3.3 | 36 |
| 332 | From atomic structure to photovoltaic properties in CdTe solar cells. Ultramicroscopy, 2013, 134, 113-125. | 1.9 | 80 |
| 333 | CdS/CdTe thin-film solar cells with Cu-free MoO ₃ /Au back contacts. , 2013, , . | | 0 |
| 334 | The effect of a metallic Ni core on charge dynamics in CdS-sensitized p-type NiO nanowire mesh photocathodes. RSC Advances, 2013, 3, 13342. | 3.6 | 1 |
| 335 | Control of one-dimensional magnetism in graphene via spontaneous hydrogenation of the grain boundary. Physical Chemistry Chemical Physics, 2013, 15, 8271. | 2.8 | 5 |
| 336 | Effect of gas ambient and varying RF sputtering power for bandgap narrowing of mixed (ZnO:GaN) thin films for solar driven hydrogen production. Journal of Power Sources, 2013, 232, 74-78. | 7.8 | 13 |
| 337 | The structure and properties of (aluminum, oxygen) defect complexes in silicon. Journal of Applied Physics, 2013, 114, 063520. | 2.5 | 10 |
| 338 | Photoelectrochemical behavior of mixed ZnO and GaN (ZnO:GaN) thin films prepared by sputtering technique. Applied Surface Science, 2013, 270, 718-721. | 6.1 | 4 |
| 339 | Defect segregation at grain boundary and its impact on photovoltaic performance of CuInSe ₂ . Applied Physics Letters, 2013, 102, . | 3.3 | 50 |
| 340 | Synthesis of single-phase Cu ₂ ZnSnS ₄ thin films by ultrasonic spray pyrolysis. , 2013, , . | | 2 |
| 341 | High-efficiency CdS/CdTe solar cells on commercial SnO ₂ :F coated soda-lime glass substrates. , 2013, , . | | 1 |
| 342 | Core Structures of Dislocations within CdTe Grains. Materials Research Society Symposia Proceedings, 2013, 1526, 1. | 0.1 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 343 | The electronic properties of point defects in earth-abundant photovoltaic material Zn ₃ P ₂ : A hybrid functional method study. Journal of Applied Physics, 2013, 113, . | 2.5 | 26 |
| 344 | Structural, chemical and luminescent investigation of MBE- and CSS-deposited CdTe thin-films for solar cells. , 2013, , . | | 1 |
| 345 | Electron microscopy study of individual grain boundaries in Cu ₂ ZnSnSe ₄ thin films. , 2013, , . | | 0 |
| 346 | Growth and characterization of close-spaced sublimation zinc phosphide thin films. , 2013, , . | | 0 |
| 347 | First principles study of aluminum-oxygen complexes in silicon. , 2013, , . | | 0 |
| 348 | EFFECTS OF INTERELECTRODE SPACING ON THE PROPERTIES OF MICROCRYSTALLINE SILICON ABSORBER AND SOLAR CELLS. Materials Research Society Symposia Proceedings, 2012, 1426, 105-110. | 0.1 | 0 |
| 349 | Electrostatic Potentials at Cu(In,Ga)Se ₂ Grain Boundaries: Experiment and Simulations. Physical Review Letters, 2012, 109, 095506. | 7.8 | 39 |
| 350 | Ambient Temperature and Pressure Mechanochemical Preparation of Nano-LiTiS ₂ . ECS Electrochemistry Letters, 2012, 1, A21-A23. | 1.9 | 13 |
| 351 | ZnO:GaN thin films for photoelectrochemical water splitting application. Emerging Materials Research, 2012, 1, 201-204. | 0.7 | 6 |
| 352 | Synthesis and Characterization of Magnesium-Alloyed Hematite Thin Films. Journal of Electronic Materials, 2012, 41, 3100-3106. | 2.2 | 7 |
| 353 | Electronic and optical properties of Co ₂ O ₄ (x%Al, Ga, In) alloys. Applied Physics Letters, 2012, 100, . | 3.3 | 15 |
| 354 | Real time and post-deposition optical analysis of interfaces in CdTe solar cells. , 2012, , . | | 2 |
| 355 | New Polytypoid SnO ₂ (ZnO:Sn) _m Nanowire: Characterization and Calculation of Its Electronic Structure. Journal of Physical Chemistry C, 2012, 116, 5009-5013. | 3.1 | 13 |
| 356 | Unusual nonlinear strain dependence of valence-band splitting in ZnO. Physical Review B, 2012, 86, . | 3.2 | 11 |
| 357 | Comparative study of defect transition energy calculation methods: The case of oxygen vacancy in In ₂ O ₃ and ZnO. Physical Review B, 2012, 86, . | 3.2 | 23 |
| 358 | Possible effects of oxygen in Te-rich $\sqrt{3} \times \sqrt{3}$ (112) grain boundaries in CdTe. Solid State Communications, 2012, 152, 1744-1747. | 1.9 | 27 |
| 359 | Strong asymmetrical doping properties of spinel CoAl ₂ O ₄ . Journal of Applied Physics, 2012, 111, 093723. | 2.5 | 6 |
| 360 | Transmission electron microscopy of chalcogenide thin-film photovoltaic materials. Current Opinion in Solid State and Materials Science, 2012, 16, 39-44. | 11.5 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 361 | Origin of enhanced water adsorption at $\{11\bar{0}0\}$ step edge on rutile TiO ₂ (110) surface. Journal of Chemical Physics, 2012, 137, 114707. | 3.0 | 8 |
| 362 | Stability and electronic structures of Cu _x S solar cell absorbers. , 2012, , . | | 4 |
| 363 | The delocalized nature of holes in (Ga, N) cluster-doped ZnO. Journal of Physics Condensed Matter, 2012, 24, 415503. | 1.8 | 4 |
| 364 | Enhancing the Stability of CuO Thin-Film Photoelectrodes by Ti Alloying. Journal of Electronic Materials, 2012, 41, 3062-3067. | 2.2 | 30 |
| 365 | Controlled synthesis of aligned Ni-NiO core-shell nanowire arrays on glass substrates as a new supercapacitor electrode. RSC Advances, 2012, 2, 8281. | 3.6 | 62 |
| 366 | Crystal and electronic structures of Cu _x S solar cell absorbers. Applied Physics Letters, 2012, 100, . | 3.3 | 105 |
| 367 | Titanium and magnesium Co-alloyed hematite thin films for photoelectrochemical water splitting. Journal of Applied Physics, 2012, 111, 073502. | 2.5 | 30 |
| 368 | Origin of the diverse behavior of oxygen vacancies in ABO ₃ perovskites: A symmetry based analysis. Physical Review B, 2012, 85, . | 3.2 | 28 |
| 369 | A Novel Codoping Approach for Enhancing the Performance of LiFePO ₄ Cathodes. Advanced Energy Materials, 2012, 2, 1028-1032. | 19.5 | 72 |
| 370 | Influence of Gas Flow Rate for Formation of Aligned Nanorods in ZnO Thin Films for Solar-Driven Hydrogen Production. Jom, 2012, 64, 526-530. | 1.9 | 1 |
| 371 | Polarization-Induced Charge Distribution at Homogeneous Zincblende/Wurtzite Heterostructural Junctions in ZnSe Nanobelts. Advanced Materials, 2012, 24, 1328-1332. | 21.0 | 30 |
| 372 | Kesterites and Chalcopyrites: A Comparison of Close Cousins. Materials Research Society Symposia Proceedings, 2011, 1324, 97. | 0.1 | 53 |
| 373 | Origin of charge separation in III-nitride nanowires under strain. Applied Physics Letters, 2011, 99, 262103. | 3.3 | 6 |
| 374 | Double-Hole-Mediated Coupling of Dopants and Its Impact on Band Gap Engineering in TiO_2 . Physical Review Letters, 2011, 106, 066801. | 7.8 | 134 |
| 375 | Synthesis and characterization of titanium-alloyed hematite thin films for photoelectrochemical water splitting. Journal of Applied Physics, 2011, 110, . | 2.5 | 28 |
| 376 | Origin of Bonding between the SWCNT and the Fe ₃ O ₄ (001) Surface and the Enhanced Electrical Conductivity. Journal of Physical Chemistry Letters, 2011, 2, 2853-2858. | 4.6 | 17 |
| 377 | Understanding of defect physics in polycrystalline photovoltaic materials. , 2011, , . Comparative study of the luminescence and intrinsic point defects in the kesterite Cu ₂ ZnSnS ₄ | | 4 |
| 378 | and chalcopyrite Cu(In,Ga)Se and $\text{Cu}_2\text{ZnSnS}_4$. Physical Review Letters, 2011, 106, 066801. | 3.2 | 202 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 379 | Ultrathin Coatings on Nano-LiCoO ₂ for Li-Ion Vehicular Applications. Nano Letters, 2011, 11, 414-418. | 9.1 | 357 |
| 380 | Overcoming Bipolar Doping Difficulty in Wide Gap Semiconductors. , 2011, , 213-239. | | 7 |
| 381 | The effects of Bi alloying in Cu delafossites: A density functional theory study. Journal of Applied Physics, 2011, 109, . | 2.5 | 17 |
| 382 | Transmission electron microscopy study of dislocations and interfaces in CdTe solar cells. Thin Solid Films, 2011, 519, 7168-7172. | 1.8 | 11 |
| 383 | Prediction of the chemical trends of oxygen vacancy levels in binary metal oxides. Applied Physics Letters, 2011, 99, . | 3.3 | 42 |
| 384 | Electrochemical effects of ALD surface modification on combustion synthesized LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ as a layered-cathode material. Journal of Power Sources, 2011, 196, 3317-3324. | 7.8 | 198 |
| 385 | Extremely Durable High-Rate Capability of a LiNi _{0.4} Mn _{0.4} Co _{0.2} O ₂ Cathode Enabled with Single-Walled Carbon Nanotubes. Advanced Energy Materials, 2011, 1, 58-62. | 19.5 | 74 |
| 386 | Phase separation in Ga and N co-incorporated ZnO films and its effects on photo-response in photoelectrochemical water splitting. Thin Solid Films, 2011, 519, 5983-5987. | 1.8 | 26 |
| 387 | Effects of Atomic Layer Deposition of Al ₂ O ₃ on the Li[Li _{0.20} Mn _{0.54} Ni _{0.13} Co _{0.13}]O ₂ Cathode for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2011, 158, A1298. | 2.9 | 119 |
| 388 | Synthesis and characterization of titanium doped hematite for photoelectrochemical water splitting. Proceedings of SPIE, 2011, , . | 0.8 | 0 |
| 389 | Density profiles in sputtered molybdenum thin films and their effects on sodium diffusion in Cu(In _x Ga _{1-x})Se ₂ photovoltaics. , 2011, , . | | 3 |
| 390 | On the bandgap of hydrogenated nanocrystalline silicon thin films. , 2010, , . | | 6 |
| 391 | First-principles study of iron segregation into silicon ~ 5 grain boundary. Journal of Applied Physics, 2010, 107, 093713. | 2.5 | 10 |
| 392 | Effects of substrate temperature and RF power on the formation of aligned nanorods in ZnO thin films. Jom, 2010, 62, 25-30. | 1.9 | 6 |
| 393 | Effect of substrate temperature on the photoelectrochemical responses of Ga and N co-doped ZnO films. Journal of Materials Science, 2010, 45, 5218-5222. | 3.7 | 17 |
| 394 | Conformal Surface Coatings to Enable High Volume Expansion Li-Ion Anode Materials. ChemPhysChem, 2010, 11, 2124-2130. | 2.1 | 126 |
| 395 | Nanostructured Fe ₃ O ₄ /SWNT Electrode: Binder-Free and High-Rate Li-Ion Anode. Advanced Materials, 2010, 22, E145-9. | 21.0 | 556 |
| 396 | Influence of gas ambient on the synthesis of co-doped ZnO:(Al,N) films for photoelectrochemical water splitting. Journal of Power Sources, 2010, 195, 5801-5805. | 7.8 | 47 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 397 | Effect of hydrogen dilution profiling on the microscopic structure of amorphous and nanocrystalline silicon mixed-phase solar cells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, NA-NA. | 0.8 | 4 |
| 398 | Effective band gap narrowing of anatase TiO ₂ by strain along a soft crystal direction. <i>Applied Physics Letters</i> , 2010, 96, . | 3.3 | 185 |
| 399 | SiO ₂ as barrier layer for Na out-diffusion from soda-lime glass. , 2010, , . | | 7 |
| 400 | Amorphous copper tungsten oxide with tunable band gaps. <i>Journal of Applied Physics</i> , 2010, 108, 043502. | 2.5 | 14 |
| 401 | Electronic, structural, and magnetic effects of 3d transition metals in hematite. <i>Journal of Applied Physics</i> , 2010, 107, . | 2.5 | 135 |
| 402 | Improved current collection in WO ₃ /Mo/WO ₃ bilayer photoelectrodes. <i>Journal of Materials Research</i> , 2010, 25, 45-51. | 2.6 | 31 |
| 403 | Synthesis and characterization of band gap-reduced ZnO:N and ZnO:(Al,N) films for photoelectrochemical water splitting. <i>Journal of Materials Research</i> , 2010, 25, 69-75. | 2.6 | 56 |
| 404 | Defect characterization by admittance spectroscopy techniques based on temperature-rate duality. , 2010, , . | | 0 |
| 405 | Band-Engineered Bismuth Titanate Pyrochlores for Visible Light Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10598-10605. | 3.1 | 126 |
| 406 | Band structure engineering of semiconductors for enhanced photoelectrochemical water splitting: The case of TiO_2 . <i>Physical Review B</i> , 2010, 82, . | 3.2 | 300 |
| 407 | Electrodeposited Aluminum-Doped Fe_2O_3 Photoelectrodes: Experiment and Theory. <i>Chemistry of Materials</i> , 2010, 22, 510-517. | 6.7 | 240 |
| 408 | Microstructure and surface chemistry of nanoporous Si for photovoltaics. , 2010, , . | | 3 |
| 409 | Electrochemical deposition of copper oxide nanowires for photoelectrochemical applications. <i>Journal of Materials Chemistry</i> , 2010, 20, 6962. | 6.7 | 91 |
| 410 | Microstructure and Pseudocapacitive Properties of Electrodes Constructed of Oriented NiO-TiO ₂ Nanotube Arrays. <i>Nano Letters</i> , 2010, 10, 4099-4104. | 9.1 | 417 |
| 411 | Investigation of potential and electric field profiles in cross sections of CdTe/CdS solar cells using scanning Kelvin probe microscopy. <i>Journal of Applied Physics</i> , 2010, 108, . | 2.5 | 39 |
| 412 | The effect of ZnO replacement by ZnMgO ON ZnO/CdS/Cu(In,Ga)Se ₂ solar cells. , 2009, , . | | 0 |
| 413 | Group-IIIA versus IIIB delafossites: Electronic structure study. <i>Physical Review B</i> , 2009, 80, . | 3.2 | 69 |
| 414 | Enhancing dopant solubility via epitaxial surfactant growth. <i>Physical Review B</i> , 2009, 80, . | 3.2 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 415 | Symmetry-breaking-induced enhancement of visible light absorption in delafossite alloys. Applied Physics Letters, 2009, 94, 251907. | 3.3 | 20 |
| 416 | Impurity Study of Optical Properties in Fluorine-Doped Tin Oxide for Thin-Film Solar Cells. Materials Research Society Symposia Proceedings, 2009, 1165, 1. | 0.1 | 3 |
| 417 | On the existence of Si-C double bonded graphene-like layers. Chemical Physics Letters, 2009, 479, 255-258. | 2.6 | 39 |
| 418 | Structure and effects of vacancies in $\sqrt{3} \times \sqrt{3}$ (112) grain boundaries in Si. Journal of Applied Physics, 2009, 106, 113506. | 2.5 | 20 |
| 419 | CoAl ₂ O ₄ -Fe ₂ O ₃ p-n nanocomposite electrodes for photoelectrochemical cells. Applied Physics Letters, 2009, 95, 022116. | 3.3 | 32 |
| 420 | Origin of electronic and optical trends in ternary conducting oxides. Physical Review B, 2009, 79, . | 3.2 | 74 |
| 421 | Band Edge Electronic Structure of BiVO ₄ : Elucidating the Role of the Bi s and V d Orbitals. Chemistry of Materials, 2009, 21, 547-551. | 6.7 | 624 |
| 422 | Structural, electronic, and optical properties of the In ₂ O ₃ (ZnO) _n system. , 2009, , . | | 0 |
| 423 | Ternary cobalt spinel oxides for solar driven hydrogen production: Theory and experiment. Energy and Environmental Science, 2009, 2, 774. | 30.8 | 60 |
| 424 | (Photo)electrochemical Characterization of Doped ZnO Electrodes. ECS Meeting Abstracts, 2009, , . | 0.0 | 0 |
| 425 | Doping asymmetry in wide-bandgap semiconductors: Origins and solutions. Physica Status Solidi (B): Basic Research, 2008, 245, 641-652. | 1.5 | 187 |
| 426 | Direct Growth of Highly Mismatched Type II ZnO/ZnSe Core/Shell Nanowire Arrays on Transparent Conducting Oxide Substrates for Solar Cell Applications. Advanced Materials, 2008, 20, 3248-3253. | 21.0 | 330 |
| 427 | Enhancement of photoelectrochemical response by aligned nanorods in ZnO thin films. Journal of Power Sources, 2008, 176, 387-392. | 7.8 | 115 |
| 428 | Grain-boundary physics in polycrystalline photovoltaic materials. Conference Record of the IEEE Photovoltaic Specialists Conference, 2008, , . | 0.0 | 0 |
| 429 | Electronic, Energetic, and Chemical Effects of Intrinsic Defects and Fe-Doping of CoAl ₂ O ₄ : A DFT+U Study. Journal of Physical Chemistry C, 2008, 112, 12044-12050. | 3.1 | 75 |
| 430 | Carrier concentration tuning of bandgap-reduced p-type ZnO films by codoping of Cu and Ga for improving photoelectrochemical response. Journal of Applied Physics, 2008, 103, 073504. | 2.5 | 65 |
| 431 | Density-functional theory study of the effects of atomic impurity on the band edges of monoclinic WO ₃ . Physical Review B, 2008, 77, . | 3.2 | 93 |
| 432 | Electronic structure of ZnO:GaN compounds: Asymmetric bandgap engineering. Physical Review B, 2008, 78, . | 3.2 | 93 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 433 | Evaluation of Nitrogen Doping of Tungsten Oxide for Photoelectrochemical Water Splitting. Journal of Physical Chemistry C, 2008, 112, 5213-5220. | 3.1 | 191 |
| 434 | Room Temperature Ferromagnetism of FeCo-Codoped ZnO Nanorods Prepared by Chemical Vapor Deposition. IEEE Transactions on Magnetics, 2008, 44, 2681-2683. | 2.1 | 5 |
| 435 | Correlation of Hydrogen Dilution Profiling to Material Structure and Device Performance of Hydrogenated Nanocrystalline Silicon Solar Cells. Materials Research Society Symposia Proceedings, 2008, 1066, 1. | 0.1 | 22 |
| 436 | Optical Enhancement by Textured Back Reflector in Amorphous and Nanocrystalline Silicon Based Solar Cells. Materials Research Society Symposia Proceedings, 2008, 1101, 1. | 0.1 | 4 |
| 437 | $\ln \left(\frac{M}{M_0} \right) = \frac{3}{M_0} \left(\frac{M}{M_0} \right)^2 \left(\frac{M}{M_0} - 1 \right)$ ZnO nanocrystal structures for photoelectrochemical cells. Applied Physics Letters, 2008, 93, 163117. | 7.8 | 63 |
| 438 | ZnO nanocrystal structures for photoelectrochemical cells. Applied Physics Letters, 2008, 93, 163117. | 3.3 | 92 |
| 439 | Effect of Copassivation of Cl and Cu on CdTe Grain Boundaries. Physical Review Letters, 2008, 101, 155501. | 7.8 | 103 |
| 440 | Comparative Study of Solid-Phase Crystallization of Amorphous Silicon Deposited by Hot-wire CVD, Plasma-Enhanced CVD, and Electron-Beam Evaporation. Materials Research Society Symposia Proceedings, 2007, 989, 4. | 0.1 | 6 |
| 441 | Atom Probe Analysis of III-V and Si-Based Semiconductor Photovoltaic Structures. Microscopy and Microanalysis, 2007, 13, 493-502. | 0.4 | 47 |
| 442 | Structural, magnetic, and electronic properties of the Co-Fe-Al oxide spinel system: Density-functional theory calculations. Physical Review B, 2007, 76, . | 3.2 | 168 |
| 443 | Atomic structure of In ₂ O ₃ -ZnO systems. Applied Physics Letters, 2007, 90, 261904. | 3.3 | 32 |
| 444 | Band gap narrowing of ZnO:N films by varying rf sputtering power in O ₂ /N ₂ mixtures. Journal of Vacuum Science & Technology B, 2007, 25, L23. | 1.3 | 30 |
| 445 | TEM study of Locations of Cu in CdTe Solar Cells. Materials Research Society Symposia Proceedings, 2007, 1012, 1. | 0.1 | 7 |
| 446 | The Mechanism of J-V Roll-Over in CdS/CdTe Devices. Materials Research Society Symposia Proceedings, 2007, 1012, 1. | 0.1 | 4 |
| 447 | Band gap reduction of ZnO for photoelectrochemical splitting of water. Proceedings of SPIE, 2007, , . | 0.8 | 12 |
| 448 | Synthesis of band-gap-reduced p-type ZnO films by Cu incorporation. Journal of Applied Physics, 2007, 102, . | 2.5 | 114 |
| 449 | Enhanced photoelectrochemical responses of ZnO films through Ga and N codoping. Applied Physics Letters, 2007, 91, . | 3.3 | 144 |
| 450 | Possible Approach to Overcome the Doping Asymmetry in Wideband Gap Semiconductors. Physical Review Letters, 2007, 98, 135506. | 7.8 | 204 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 451 | Photoelectrochemical Properties of N-Incorporated ZnO Films Deposited by Reactive RF Magnetron Sputtering. Journal of the Electrochemical Society, 2007, 154, B956. | 2.9 | 81 |
| 452 | Electrically Benign Behavior of Grain Boundaries in Polycrystalline CuInSe_2 Films. Physical Review Letters, 2007, 99, 235504. | 7.8 | 192 |
| 453 | Argon ion beam and electron beam-induced damage in $\text{Cu}(\text{In,Ga})\text{Se}_2$ thin films. Thin Solid Films, 2007, 515, 4681-4685. | 1.8 | 11 |
| 454 | Structural instability of Sn-doped In_2O_3 thin films during thermal annealing at low temperature. Thin Solid Films, 2007, 515, 6686-6690. | 1.8 | 12 |
| 455 | Grain-Boundary Physics in Polycrystalline CuInSe_2 Revisited: Experiment and Theory. Physical Review Letters, 2006, 96, 205501. | 7.8 | 106 |
| 456 | Synthesis and Characterization of Boron-Doped Single-Wall Carbon Nanotubes Produced by the Laser Vaporization Technique. Chemistry of Materials, 2006, 18, 2558-2566. | 6.7 | 69 |
| 457 | Atomic structure and electronic properties of $\text{c-Si}^a\text{-Si:H}$ heterointerfaces. Applied Physics Letters, 2006, 88, 121925. | 3.3 | 39 |
| 458 | Doping of ZnO by group-IB elements. Applied Physics Letters, 2006, 89, 181912. | 3.3 | 275 |
| 459 | Damage-Layer-Mediated H Diffusion During SiN:H Processing: A Comprehensive Model. , 2006, , , | | 3 |
| 460 | Nanostructured manganese oxides as lithium battery cathode materials. Journal of Power Sources, 2006, 158, 659-662. | 7.8 | 17 |
| 461 | Physics of Solid-Phase Epitaxy of Hydrogenated Amorphous Silicon for Thin Film Si Photovoltaics. Materials Research Society Symposia Proceedings, 2006, 910, 5. | 0.1 | 2 |
| 462 | Impurity-induced phase stabilization of semiconductors. Applied Physics Letters, 2006, 89, 011907. | 3.3 | 20 |
| 463 | Microstructure of CdTe thin films after mixed nitric and phosphoric acids etching and $(\text{HgTe})_x$. Tj ETQq1 1 0.784314,rgBT /Overlock 10 | 1.8 | 14 |
| 464 | Solid phase crystallization of hot-wire CVD amorphous silicon films. Materials Research Society Symposia Proceedings, 2005, 862, 1051. | 0.1 | 12 |
| 465 | Chemical fluctuation-induced nanodomains in $\text{Cu}(\text{In,Ga})\text{Se}_2$ films. Applied Physics Letters, 2005, 87, 121904. | 3.3 | 61 |
| 466 | The Structure and Passivation Effects of Double-Positioning Twin Boundaries in CdTe. Materials Research Society Symposia Proceedings, 2005, 865, 441. | 0.1 | 0 |
| 467 | Solid-State Nanocomposite Electrochromic Pseudocapacitors. Electrochemical and Solid-State Letters, 2005, 8, A188. | 2.2 | 30 |
| 468 | Passivation of double-positioning twin boundaries in CdTe. Journal of Applied Physics, 2004, 96, 320-326. | 2.5 | 32 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 469 | Electrochemical Transformation of SWNT/Nafion Composites. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, A421. | 2.2 | 11 |
| 470 | Quasicrystals as cluster aggregates. <i>Nature Materials</i> , 2004, 3, 759-767. | 27.5 | 131 |
| 471 | Electrochemical deposition of mesostructured vanadium oxides and vanadophosphates. <i>Journal of Materials Science Letters</i> , 2003, 22, 489-490. | 0.5 | 2 |
| 472 | In-Situ Formation of ZnO Nanobelts and Metallic Zn Nanobelts and Nanodisks. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9701-9704. | 2.6 | 44 |
| 473 | Formation of metallic zinc nanowires. <i>Journal of Applied Physics</i> , 2003, 93, 4807-4809. | 2.5 | 46 |
| 474 | Structure and effects of double-positioning twin boundaries in CdTe. <i>Journal of Applied Physics</i> , 2003, 94, 2976-2979. | 2.5 | 66 |
| 475 | Local Structural Variations in Al ₇₂ Ni ₂₀ Co ₈ Decagonal Quasicrystals. <i>Materials Research Society Symposia Proceedings</i> , 2003, 805, 248. | 0.1 | 0 |
| 476 | Effects of Doping on the Growth of ZnO Nanostructures. <i>Materials Research Society Symposia Proceedings</i> , 2003, 776, 821. | 0.1 | 0 |
| 477 | Carbon impurities in MgB ₂ . <i>Journal of Applied Physics</i> , 2002, 92, 7687-7689. | 2.5 | 18 |
| 478 | Growth and characterization of radio frequency magnetron sputter-deposited zinc stannate, Zn ₂ SnO ₄ , thin films. <i>Journal of Applied Physics</i> , 2002, 92, 310-319. | 2.5 | 194 |
| 479 | Control of Doping by Impurity Chemical Potentials: Predictions for p-Type ZnO. <i>Physical Review Letters</i> , 2001, 86, 5723-5726. | 7.8 | 362 |
| 480 | A Theoretical Study of p-Type Doping of ZnO: Problems and Solutions. <i>Materials Research Society Symposia Proceedings</i> , 2001, 666, 261. | 0.1 | 5 |
| 481 | Cu(In,Ga)Se ₂ Thin-Film Evolution During Growth from (In,Ga)Se ₃ Precursors. <i>Materials Research Society Symposia Proceedings</i> , 2001, 668, 1. | 0.1 | 8 |
| 482 | Characterization of extended defects in polycrystalline CdTe thin films grown by close-spaced sublimation. <i>Thin Solid Films</i> , 2001, 389, 75-77. | 1.8 | 27 |
| 483 | Energetics and effects of planar defects in CdTe. <i>Journal of Applied Physics</i> , 2001, 90, 3952-3955. | 2.5 | 45 |
| 484 | Chemical Ordering in Al ₇₂ Ni ₂₀ Co ₈ Decagonal Quasicrystals. <i>Physical Review Letters</i> , 2001, 86, 1542-1545. | 7.8 | 42 |
| 485 | Atomic structure of the quasicrystal Al ₇₂ Ni ₂₀ Co ₈ . <i>Nature</i> , 2000, 403, 266-267. | 27.8 | 99 |
| 486 | Direct Imaging of Atomic Ordering in Undoped and La-Doped Pb(Mg _{1/3} Nb _{2/3})O ₃ . <i>Journal of the American Ceramic Society</i> , 2000, 83, 181-88. | 3.8 | 58 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 487 | Structural model for the Al ₇₂ Ni ₂₀ Co ₈ decagonal quasicrystals. <i>Physical Review B</i> , 2000, 61, 14291-14294. | 3.2 | 14 |
| 488 | Structures of pure and Ca-segregated MgO (001) surfaces. <i>Surface Science</i> , 1999, 442, 251-255. | 1.9 | 11 |
| 489 | Direct Imaging of Local Chemical Disorder and Columnar Vacancies in Ideal Decagonal Al-Ni-Co Quasicrystals. <i>Physical Review Letters</i> , 1998, 81, 5145-5148. | 7.8 | 92 |
| 490 | Structures of polytypoids in AlN crystals containing oxygen. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998, 77, 1027-1040. | 0.6 | 12 |
| 491 | The structures of inversion domain boundaries in AlN ceramics. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1997, 75, 1005-1022. | 0.6 | 8 |
| 492 | Convergent-Beam Electron diffraction study of structure of β^2 -Silicon Nitride. <i>Physica Status Solidi A</i> , 1996, 155, 289-297. | 1.7 | 7 |
| 493 | The Burgers vector of an edge dislocation in an Al ₇₀ Co ₁₅ Ni ₁₅ decagonal quasicrystal determined by means of convergent-beam electron diffraction. <i>Journal of Physics Condensed Matter</i> , 1993, 5, L195-L200. | 1.8 | 4 |
| 494 | Transmission electron microscope observations of rectangular dislocation networks in an Al ₇₀ Co ₁₅ Ni ₁₅ decagonal quasicrystal. <i>Journal of Materials Research</i> , 1993, 8, 286-290. | 2.6 | 7 |
| 495 | High-temperature-deformation-introduced defects in an Al ₇₀ Co ₁₅ Ni ₁₅ decagonal quasicrystal. <i>Philosophical Magazine Letters</i> , 1993, 67, 51-57. | 1.2 | 10 |
| 496 | Experimental observation and computer simulation of high-order Laue zone line patterns of Al ₇₀ Co ₁₅ Ni ₁₅ decagonal quasicrystals. <i>Philosophical Magazine Letters</i> , 1992, 65, 33-41. | 1.2 | 10 |
| 497 | Experimental observations of small-angle grain boundaries in the Al ₇₀ Co ₁₅ Ni ₁₅ decagonal quasicrystal. <i>Philosophical Magazine Letters</i> , 1992, 66, 253-258. | 1.2 | 12 |
| 498 | Burgers vector determination of dislocations in an Al ₇₀ Co ₁₅ Ni ₁₅ decagonal quasicrystal. <i>Philosophical Magazine Letters</i> , 1992, 66, 197-201. | 1.2 | 18 |
| 499 | Transmission electron microscopic analysis of stacking faults in a decagonal Al-Co-Ni alloy. <i>Philosophical Magazine Letters</i> , 1991, 64, 21-27. | 1.2 | 21 |
| 500 | Investigation of the microstructure of Cu(In,Ga)Se ₂ thin films used in high-efficiency devices. , 0, , , | | 3 |
| 501 | High-throughput approaches to optimization of crystal silicon surface passivation and heterojunction solar cells. , 0, , , | | 1 |
| 502 | A comprehensive model of hydrogen transport into a solar cell during silicon nitride processing for fire-through metallization. , 0, , , | | 6 |
| 503 | A Multifunctional Molecular Modifier Enabling Efficient Large-Area Perovskite Light-Emitting Diodes. <i>SSRN Electronic Journal</i> , 0, , , | 0.4 | 0 |