Martin A Green

List of Publications by Year in Descending Order

606 papers	54,427 citations	110 h-index	220 g-index
669 ext. papers	61,937 ext. citations	7 avg, IF	8.44 L-index

#	Paper	IF	Citations
606	Low-pressure accessible gas-quenching for absolute methylammonium-free perovskite solar cells. *Journal of Materials Chemistry A*, **2022**, 10, 2105-2112	13	1
605	Solar cell efficiency tables (version 59). *Progress in Photovoltaics: Research and Applications*, **2022**, 30, 3-12	6.8	67
604	Passive PV module cooling under free convection through vortex generators. *Renewable Energy*, **2022**, 190, 319-329	8.1	0
603	Recent progress and future prospects of perovskite tandem solar cells. *Applied Physics Reviews*, **2021**, 8, 041307	17.3	15
602	Kesterite Solar Cells: Insights into Current Strategies and Challenges. *Advanced Science*, **2021**, 8, 2004313	13.6	18
601	Singlet fission and tandem solar cells reduce thermal degradation and enhance lifespan. *Progress in Photovoltaics: Research and Applications*, **2021**, 29, 899-906	6.8	7
600	Solar cell efficiency tables (Version 58). *Progress in Photovoltaics: Research and Applications*, **2021**, 29, 657	6.8	151
599	Revealing Dynamic Effects of Mobile Ions in Halide Perovskite Solar Cells Using Time-Resolved Microspectroscopy.. *Small Methods*, **2021**, 5, e2000731	12.8	9
598	Kinetics of light-induced degradation in semi-transparent perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2021**, 219, 110776	6.4	10
597	Solar cell efficiency tables (version 57). *Progress in Photovoltaics: Research and Applications*, **2021**, 29, 3-15	6.8	356
596	Defect-Resolved Effective Majority Carrier Mobility in Highly Anisotropic Antimony Chalcogenide Thin-Film Solar Cells. *Solar Rrl*, **2021**, 5, 2000693	7.1	8
595	Optical and Thermal Emission Benefits of Differently Textured Glass for Photovoltaic Modules. *IEEE Journal of Photovoltaics*, **2021**, 11, 131-137	3.7	3
594	High Efficiency Cu2ZnSn(S,Se)4 Solar Cells with Shallow LiZn Acceptor Defects Enabled by Solution-Based Li Post-Deposition Treatment. *Advanced Energy Materials*, **2021**, 11, 2003783	21.8	17
593	Elucidating Mechanisms behind Ambient Storage-Induced Efficiency Improvements in Perovskite Solar Cells. *ACS Energy Letters*, **2021**, 6, 925-933	20.1	23
592	Systematic Efficiency Improvement for Cu2ZnSn(S,Se)4 Solar Cells By Double Cation Incorporation with Cd and Ge. *Advanced Functional Materials*, **2021**, 31, 2104528	15.6	7
591	Immediate and Temporal Enhancement of Power Conversion Efficiency in Surface-Passivated Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2021**, 13, 39178-39185	9.5	2
590	Large-Grain Spanning Monolayer Cu ZnSnSe Thin-Film Solar Cells Grown from Metal Precursor.. *Small*, **2021**, e2105044	11	5

589	11.6% Efficient Pure Sulfide Cu(In,Ga)S2 Solar Cell through a Cu-Deficient and KCN-Free Process. *ACS Applied Energy Materials*, **2020**, 3, 11974-11980	6.1	5
588	Gas chromatography-mass spectrometry analyses of encapsulated stable perovskite solar cells. *Science*, **2020**, 368,	33.3	167
587	Epitaxial growth of Cu2ZnSnS4 thin film on Si by radio frequency magnetron sputtering. *Applied Physics Letters*, **2020**, 116, 123901	3.4	5
586	Transparent Electrodes Consisting of a Surface-Treated Buffer Layer Based on Tungsten Oxide for Semitransparent Perovskite Solar Cells and Four-Terminal Tandem Applications. *Small Methods*, **2020**, 4, 2000074	12.8	27
585	Unveiling the Relationship between the Perovskite Precursor Solution and the Resulting Device Performance. *Journal of the American Chemical Society*, **2020**, 142, 6251-6260	16.4	57
584	Solar cell efficiency tables (version 56). *Progress in Photovoltaics: Research and Applications*, **2020**, 28, 629-638	6.8	337
583	Integrated Photorechargeable Energy Storage System: Next-Generation Power Source Driving the Future. *Advanced Energy Materials*, **2020**, 10, 1903930	21.8	61
582	Evidence of Low-Temperature Joints in Silver Nanowire Based Transparent Conducting Layers for Solar Cells. *ACS Applied Nano Materials*, **2020**, 3, 3205-3213	5.6	5
581	Unveiling the Importance of Precursor Preparation for Highly Efficient and Stable Phenethylammonium-Based Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 1900463	7.1	1
580	Acetic Acid Assisted Crystallization Strategy for High Efficiency and Long-Term Stable Perovskite Solar Cell. *Advanced Science*, **2020**, 7, 1903368	13.6	53
579	Quasi-Vertically-Orientated Antimony Sulfide Inorganic Thin-Film Solar Cells Achieved by Vapor Transport Deposition. *ACS Applied Materials & Interfaces*, **2020**, 12, 22825-22834	9.5	24
578	Grain Quality Engineering for Organic Metal Halide Perovskites Using Mixed Antisolvent Spraying Treatment. *Solar Rrl*, **2020**, 4, 1900397	7.1	6
577	Grain Quality Engineering for Organic Metal Halide Perovskites Using Mixed Antisolvent Spraying Treatment. *Solar Rrl*, **2020**, 4, 2070012	7.1	2
576	Solar cell efficiency tables (Version 55). *Progress in Photovoltaics: Research and Applications*, **2020**, 28, 3-15	6.8	533
575	Highly efficient copper-rich chalcopyrite solar cells from DMF molecular solution. *Nano Energy*, **2020**, 69, 104438	17.1	32
574	Emerging inorganic compound thin film photovoltaic materials: Progress, challenges and strategies. *Materials Today*, **2020**, 41, 120-142	21.8	37
573	Hydrothermal deposition of antimony selenosulfide thin films enables solar cells with 10% efficiency. *Nature Energy*, **2020**, 5, 587-595	62.3	162
572	Defect Control for 12.5% Efficiency Cu ZnSnSe Kesterite Thin-Film Solar Cells by Engineering of Local Chemical Environment. *Advanced Materials*, **2020**, 32, e2005268	24	58

571	Unveiling the Importance of Precursor Preparation for Highly Efficient and Stable Phenethylammonium-Based Perovskite Solar Cells. *Solar Rrl*, **2020**, 4, 2070043	7.1	
570	Deconstruction-assisted perovskite formation for sequential solution processing of Cs0.15(MA0.7FA0.3)0.85PbI3 solar cells. *Solar Energy Materials and Solar Cells*, **2019**, 203, 110200	6.4	8
569	Improvement of Cs-(FAPbI3)0.85(MAPbBr3)0.15 Quality Via DMSO-Molecule-Control to Increase the Efficiency and Boost the Long-Term Stability of 1 cm2 Sized Planar Perovskite Solar Cells. *Solar Rrl*, **2019**, 3, 1800338	7.1	15
568	Design of an intermediate Bragg reflector within triple-junction solar cells for spectrum splitting applications. *Solar Energy Materials and Solar Cells*, **2019**, 193, 259-269	6.4	6
567	Light- and bias-induced structural variations in metal halide perovskites. *Nature Communications*, **2019**, 10, 444	17.4	51
566	Solar cell efficiency tables (version 54). *Progress in Photovoltaics: Research and Applications*, **2019**, 27, 565-575	6.8	516
565	Pushing to the Limit: Radiative Efficiencies of Recent Mainstream and Emerging Solar Cells. *ACS Energy Letters*, **2019**, 4, 1639-1644	20.1	57
564	Synergistic effect of potassium and iodine from potassium triiodide complex additive on gas-quenched perovskite solar cells. *Nano Energy*, **2019**, 63, 103853	17.1	27
563	How Did Solar Cells Get So Cheap?. *Joule*, **2019**, 3, 631-633	27.8	61
562	Laser-induced aluminium-assisted crystallization of Ge-rich SixGe1-x epitaxy on Si. *Thin Solid Films*, **2019**, 679, 55-57	2.2	1
561	The Impact of a Dynamic Two-Step Solution Process on Film Formation of Cs (MA FA) PbI Perovskite and Solar Cell Performance. *Small*, **2019**, 15, e1804858	11	31
560	High open-circuit voltage CuSbS2 solar cells achieved through the formation of epitaxial growth of CdS/CuSbS2 hetero-interface by post-annealing treatment. *Progress in Photovoltaics: Research and Applications*, **2019**, 27, 37-43	6.8	13
559	Fabrication of Efficient and Stable CsPbI3 Perovskite Solar Cells through Cation Exchange Process. *Advanced Energy Materials*, **2019**, 9, 1901685	21.8	67
558	Photovoltaic technology and visions for the future. *Progress in Energy*, **2019**, 1, 013001	7.7	52
557	Cd-Free Cu2ZnSnS4 solar cell with an efficiency greater than 10% enabled by Al2O3 passivation layers. *Energy and Environmental Science*, **2019**, 12, 2751-2764	35.4	63
556	Beyond 10% efficiency Cu2ZnSnS4 solar cells enabled by modifying the heterojunction interface chemistry. *Journal of Materials Chemistry A*, **2019**, 7, 27289-27296	13	24
555	Solar cell efficiency tables (Version 53). *Progress in Photovoltaics: Research and Applications*, **2019**, 27, 3-12	6.8	540
554	The potential and design principle for next-generation spectrum-splitting photovoltaics: Targeting 50% efficiency through built-in filters and generalization of concept. *Progress in Photovoltaics: Research and Applications*, **2019**, 27, 899-904	6.8	6

553	Germanium Template Assisted Integration of Gallium Arsenide Nanocrystals on Silicon: A Versatile Platform for Modern Optoelectronic Materials. *Advanced Optical Materials*, **2018**, 6, 1701329	8.1	
552	Exploring Inorganic Binary Alkaline Halide to Passivate Defects in Low-Temperature-Processed Planar-Structure Hybrid Perovskite Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1800138	21.8	137
551	Mixed 3D–2D Passivation Treatment for Mixed-Cation Lead Mixed-Halide Perovskite Solar Cells for Higher Efficiency and Better Stability. *Advanced Energy Materials*, **2018**, 8, 1703392	21.8	226
550	Fabrication of low-defect Ge-rich SiGe-on-insulator by continuous-wave diode laser-induced recrystallization. *Journal of Alloys and Compounds*, **2018**, 744, 679-682	5.7	3
549	Dynamic study of the light soaking effect on perovskite solar cells by in-situ photoluminescence microscopy. *Nano Energy*, **2018**, 46, 356-364	17.1	37
548	Luminescence Imaging Characterization of Perovskite Solar Cells: A Note on the Analysis and Reporting the Results. *Advanced Energy Materials*, **2018**, 8, 1702256	21.8	13
547	Humidity-Induced Degradation via Grain Boundaries of HC(NH2)2PbI3 Planar Perovskite Solar Cells. *Advanced Functional Materials*, **2018**, 28, 1705363	15.6	172
546	High-voltage p-type PERC solar cells with anchored plating and hydrogenation. *Progress in Photovoltaics: Research and Applications*, **2018**, 26, 397-401	6.8	7
545	Efficiency Enhancement of Kesterite Cu2ZnSnS4 Solar Cells via Solution-Processed Ultrathin Tin Oxide Intermediate Layer at Absorber/Buffer Interface. *ACS Applied Energy Materials*, **2018**, 1, 154-160	6.1	32
544	Solution-Processed, Silver-Doped NiOx as Hole Transporting Layer for High-Efficiency Inverted Perovskite Solar Cells. *ACS Applied Energy Materials*, **2018**, 1, 561-570	6.1	69
543	Balancing electrical and optical losses for efficient 4-terminal Si–perovskite solar cells with solution processed percolation electrodes. *Journal of Materials Chemistry A*, **2018**, 6, 3583-3592	13	80
542	The effect of thermal evaporated MoO3 intermediate layer as primary back contact for kesterite Cu2ZnSnS4 solar cells. *Thin Solid Films*, **2018**, 648, 39-45	2.2	26
541	Reduction of Threading Dislocation Density in Sputtered Ge/Si(100) Epitaxial Films by Continuous-Wave Diode Laser-Induced Recrystallization. *ACS Applied Energy Materials*, **2018**, 1, 1893-1897	6.1	3
540	Flexible kesterite Cu2ZnSnS4 solar cells with sodium-doped molybdenum back contacts on stainless steel substrates. *Solar Energy Materials and Solar Cells*, **2018**, 182, 14-20	6.4	28
539	High-Efficiency Silicon Solar Cell Concepts **2018**, 95-128		3
538	Investigating the effect of silicon thickness on ultra-thin silicon on insulator as a compliant substrate for gallium arsenide heteroepitaxial growth. *Thin Solid Films*, **2018**, 653, 371-376	2.2	2
537	Manufacturing cost and market potential analysis of demonstrated roll-to-roll perovskite photovoltaic cell processes. *Solar Energy Materials and Solar Cells*, **2018**, 174, 314-324	6.4	82
536	A holistic review of mismatch loss: From manufacturing decision making to losses in fielded arrays. *Solar Energy Materials and Solar Cells*, **2018**, 174, 214-224	6.4	9

535	Scaling limits to large area perovskite solar cell efficiency. *Progress in Photovoltaics: Research and Applications*, **2018**, 26, 659-674	6.8	21
534	Cu2ZnSnS4 solar cells with over 10% power conversion efficiency enabled by heterojunction heat treatment. *Nature Energy*, **2018**, 3, 764-772	62.3	429
533	Study of sputtered Cu2ZnSnS4 thin films on Si. *Applied Surface Science*, **2018**, 459, 700-706	6.7	20
532	Solar cell efficiency tables (version 52). *Progress in Photovoltaics: Research and Applications*, **2018**, 26, 427-436	6.8	491
531	Solar Cell Efficiency Tables (Version 22) **2018**, 63-71		
530	Solar cell efficiency tables (version 51). *Progress in Photovoltaics: Research and Applications*, **2018**, 26, 3-12	6.8	622
529	Boosting the kesterite Cu2ZnSnS4 solar cells performance by diode laser annealing. *Solar Energy Materials and Solar Cells*, **2018**, 175, 71-76	6.4	18
528	Design of Bragg Reflector in GaInP/GaInAs/Ge Triple-junction Solar Cells for Spectrum Splitting Applications **2018**,		1
527	Pathways towards a 50% efficiency spectrum-splitting photovoltaic system: Application of built-in filters and generalization of concept. *Energy Procedia*, **2018**, 150, 83-86	2.3	2
526	Understanding the effect of Cadmium alloying in high-efficiency sulphide kesterite Cu2ZnxCd1-xSnS4 solar cell by PDS and HRSTEM **2018**,		3
525	Efficiency Improvement of High Band Gap Cu2ZnSnS4 Solar Cell Achieved by Silver Incorporation **2018**,		1
524	Electrode Design to Overcome Substrate Transparency Limitations for Highly Efficient 1 cm2 Mesoscopic Perovskite Solar Cells. *Joule*, **2018**, 2, 2694-2705	27.8	26
523	Enhanced Heterojunction Interface Quality To Achieve 9.3% Efficient Cd-Free Cu2ZnSnS4 Solar Cells Using Atomic Layer Deposition ZnSnO Buffer Layer. *Chemistry of Materials*, **2018**, 30, 7860-7871	9.6	39
522	Extraction of black hole coalescence waveforms from noisy data. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2018**, 784, 312-323	4.2	11
521	21.8% Efficient Monolithic Perovskite/Homo-Junction-Silicon Tandem Solar Cell on 16 cm2. *ACS Energy Letters*, **2018**, 3, 2299-2300	20.1	69
520	Self-assembled Nanometer-Scale ZnS Structure at the CZTS/ZnCdS Heterointerface for High-Efficiency Wide Band Gap Cu2ZnSnS4 Solar Cells. *Chemistry of Materials*, **2018**, 30, 4008-4016	9.6	25
519	The Role of Hydrogen from ALD-Al2O3 in Kesterite Cu2ZnSnS4 Solar Cells: Grain Surface Passivation. *Advanced Energy Materials*, **2018**, 8, 1701940	21.8	49
518	Large area efficient interface layer free monolithic perovskite/homo-junction-silicon tandem solar cell with over 20% efficiency. *Energy and Environmental Science*, **2018**, 11, 2432-2443	35.4	122

517	Acoustic-optical phonon up-conversion and hot-phonon bottleneck in lead-halide perovskites. *Nature Communications*, **2017**, 8, 14120	17.4	245
516	High-Efficiency Rubidium-Incorporated Perovskite Solar Cells by Gas Quenching. *ACS Energy Letters*, **2017**, 2, 438-444	20.1	200
515	In situ X-ray diffraction study on epitaxial growth of SixGe1−x on Si by aluminium-assisted crystallization. *Journal of Alloys and Compounds*, **2017**, 695, 1672-1676	5.7	3
514	Advanced Concepts **2017**, 160-166		
513	Spatial Distribution of Lead Iodide and Local Passivation on Organo-Lead Halide Perovskite. *ACS Applied Materials & Interfaces*, **2017**, 9, 6072-6078	9.5	50
512	An effective method of predicting perovskite solar cell lifetime—Case study on planar CH3NH3PbI3 and HC(NH2)2PbI3 perovskite solar cells and hole transfer materials of spiro-OMeTAD and PTAA. *Solar Energy Materials and Solar Cells*, **2017**, 162, 41-46	6.4	61
511	Perovskite Solar Cells: The Birth of a New Era in Photovoltaics. *ACS Energy Letters*, **2017**, 2, 822-830	20.1	259
510	Corrigendum to "Solar cell efficiency tables (version 49)" [Prog. Photovolt: Res. Appl. 2017; 25:3–13]. *Progress in Photovoltaics: Research and Applications*, **2017**, 25, 333-334	6.8	22
509	Terawatt-scale photovoltaics: Trajectories and challenges. *Science*, **2017**, 356, 141-143	33.3	227
508	Diode laser annealing of epitaxy Ge on sapphire (0 0 0 1) grown by magnetron sputtering. *Materials Letters*, **2017**, 208, 35-38	3.3	2
507	Impact of microstructure on the electron–hole interaction in lead halide perovskites. *Energy and Environmental Science*, **2017**, 10, 1358-1366	35.4	31
506	Spin-coating free fabrication for highly efficient perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2017**, 168, 165-171	6.4	53
505	Thermal Behavior of Photovoltaic Devices **2017**,		52
504	Thermal Issues in Photovoltaics and Existing Solutions **2017**, 1-28		3
503	Temperature Coefficients of Photovoltaic Devices **2017**, 29-74		6
502	A Thermal Model for the Design of Photovoltaic Devices **2017**, 75-103		1
501	Solar cell efficiency tables (version 49). *Progress in Photovoltaics: Research and Applications*, **2017**, 25, 3-13	6.8	514
500	Solar cell efficiency tables (version 50). *Progress in Photovoltaics: Research and Applications*, **2017**, 25, 668-676	6.8	663

499	Light-Bias-Dependent External Quantum Efficiency of Kesterite Cu2ZnSnS4 Solar Cells. *ACS Photonics*, **2017**, 4, 1684-1690	6.3	14
498	Diode laser annealing on sputtered epitaxial Cu2ZnSnS4 thin films. *Physica Status Solidi - Rapid Research Letters*, **2017**, 11, 1700033	2.5	4
497	Beyond 11% Efficient Sulfide Kesterite Cu2ZnxCd1−xSnS4 Solar Cell: Effects of Cadmium Alloying. *ACS Energy Letters*, **2017**, 2, 930-936	20.1	194
496	Specificities of the Thermal Behavior of Current and Emerging Photovoltaic Technologies **2017**, 105-128		
495	Lessons Learnt from Spatially Resolved Electro- and Photoluminescence Imaging: Interfacial Delamination in CH3NH3PbI3 Planar Perovskite Solar Cells upon Illumination. *Advanced Energy Materials*, **2017**, 7, 1602111	21.8	36
494	Up-conversion of sunlight by GaInP/GaAs/Ge cell stacks: Limiting efficiency, practical limitation and comparison with tandem cells. *Energy Procedia*, **2017**, 130, 60-65	2.3	3
493	The Impact of parasitic loss on solar cells with plasmonic nano-textured rear reflectors. *Scientific Reports*, **2017**, 7, 12826	4.9	21
492	The Effect of Stoichiometry on the Stability of Inorganic Cesium Lead Mixed-Halide Perovskites Solar Cells. *Journal of Physical Chemistry C*, **2017**, 121, 19642-19649	3.8	83
491	Hybrid Ag Nanowire□TO as Transparent Conductive Electrode for Pure Sulfide Kesterite Cu2ZnSnS4 Solar Cells. *Journal of Physical Chemistry C*, **2017**, 121, 20597-20604	3.8	12
490	Monolithic Wide Band Gap Perovskite/Perovskite Tandem Solar Cells with Organic Recombination Layers. *Journal of Physical Chemistry C*, **2017**, 121, 27256-27262	3.8	35
489	Strontium-Doped Low-Temperature-Processed CsPbI2Br Perovskite Solar Cells. *ACS Energy Letters*, **2017**, 2, 2319-2325	20.1	258
488	Low-Temperature Solution Processed Random Silver Nanowire as a Promising Replacement for Indium Tin Oxide. *ACS Applied Materials & Interfaces*, **2017**, 9, 34093-34100	9.5	16
487	Effects of Al thickness on one-step aluminium-assisted crystallization of Ge epitaxy on Si by magnetron sputtering. *Materials Letters*, **2017**, 209, 32-35	3.3	0
486	Overcoming the Challenges of Large-Area High-Efficiency Perovskite Solar Cells. *ACS Energy Letters* , **2017**, 2, 1978-1984	20.1	104
485	Beyond 8% ultrathin kesterite Cu2ZnSnS4 solar cells by interface reaction route controlling and self-organized nanopattern at the back contact. *NPG Asia Materials*, **2017**, 9, e401-e401	10.3	83
484	Accelerated Lifetime Testing of Organic-Inorganic Perovskite Solar Cells Encapsulated by Polyisobutylene. *ACS Applied Materials & Interfaces*, **2017**, 9, 25073-25081	9.5	118
483	Sentaurus modelling of 6.9% Cu2ZnSnS4 device based on comprehensive electrical & optical characterization. *Solar Energy Materials and Solar Cells*, **2017**, 160, 372-381	6.4	17
482	Light Illumination Induced Photoluminescence Enhancement and Quenching in Lead Halide Perovskite. *Solar Rrl*, **2017**, 1, 1600001	7.1	88

481	Energy conversion approaches and materials for high-efficiency photovoltaics. *Nature Materials*, **2016**, 16, 23-34	27	378
480	CsPbIBr2 Perovskite Solar Cell by Spray-Assisted Deposition. *ACS Energy Letters*, **2016**, 1, 573-577	20.1	196
479	A full thermal model for photovoltaic devices. *Solar Energy*, **2016**, 140, 73-82	6.8	31
478	Hole Transport Layer Free Inorganic CsPbIBr2 Perovskite Solar Cell by Dual Source Thermal Evaporation. *Advanced Energy Materials*, **2016**, 6, 1502202	21.8	317
477	Roadmap on optical energy conversion. *Journal of Optics (United Kingdom)*, **2016**, 18, 073004	1.7	69
476	Ultrafast Carrier Dynamics in Methylammonium Lead Bromide Perovskite. *Journal of Physical Chemistry C*, **2016**, 120, 2542-2547	3.8	42
475	Defect trapping states and charge carrier recombination in organic□inorganic halide perovskites. *Journal of Materials Chemistry C*, **2016**, 4, 793-800	7.1	136
474	Boosting the efficiency of pure sulfide CZTS solar cells using the In/Cd-based hybrid buffers. *Solar Energy Materials and Solar Cells*, **2016**, 144, 700-706	6.4	85
473	Time-resolved fluorescence anisotropy study of organic lead halide perovskite. *Solar Energy Materials and Solar Cells*, **2016**, 151, 102-112	6.4	12
472	Mobile Ion Induced Slow Carrier Dynamics in Organic-Inorganic Perovskite CH□NH□PbBr□ *ACS Applied Materials & Interfaces*, **2016**, 8, 5351-7	9.5	87
471	Experimental Assessment of Temperature Coefficient Theories for Silicon Solar Cells. *IEEE Journal of Photovoltaics*, **2016**, 6, 56-60	3.7	28
470	Generalised distributed model of a solar cell: Lateral injection effects and impact on cell design and characterisation. *Solar Energy Materials and Solar Cells*, **2016**, 147, 108-114	6.4	2
469	Nanoscale Microstructure and Chemistry of Cu2ZnSnS4/CdS Interface in Kesterite Cu2ZnSnS4 Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1600706	21.8	93
468	Photoluminescent and electroluminescent couplings in monolithic tandem solar cells. *Progress in Photovoltaics: Research and Applications*, **2016**, 24, 1566-1576	6.8	12
467	The current status and future prospects of kesterite solar cells: a brief review. *Progress in Photovoltaics: Research and Applications*, **2016**, 24, 879-898	6.8	267
466	The ultimate efficiency of organolead halide perovskite solar cells limited by Auger processes. *Journal of Materials Research*, **2016**, 31, 2197-2203	2.5	3
465	Critical Role of Grain Boundaries for Ion Migration in Formamidinium and Methylammonium Lead Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1600330	21.8	281
464	Solar cell efficiency tables (version 48). *Progress in Photovoltaics: Research and Applications*, **2016**, 24, 905-913	6.8	512

463	Beneficial Effects of PbI2 Incorporated in Organo-Lead Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1502104	21.8	335
462	Over 9% Efficient Kesterite Cu2ZnSnS4 Solar Cell Fabricated by Using Zn1−xCdxS Buffer Layer. *Advanced Energy Materials*, **2016**, 6, 1600046	21.8	260
461	Effect of a ZnS intermediate layer on properties of Cu2ZnSnS4 films from sputtered Zn/CuSn precursors on Si (100) substrate **2016**,		1
460	Optimization of solar thermophotovoltaic systems including the thermal balance **2016**,		5
459	Realistic Silver Optical Constants for Plasmonics. *Scientific Reports*, **2016**, 6, 30605	4.9	52
458	Temperature dependent optical properties of CH3NH3PbI3 perovskite by spectroscopic ellipsometry. *Applied Physics Letters*, **2016**, 108, 061905	3.4	54
457	Accurate expressions for solar cell fill factors including series and shunt resistances. *Applied Physics Letters*, **2016**, 108, 081111	3.4	19
456	**2016**,		1
455	**2016**,		2
454	Grain boundary effects on the optical constants and Drude relaxation times of silver films. *Journal of Applied Physics*, **2016**, 120, 233109	2.5	6
453	Large Voc improvement and 9.2% efficient pure sulfide Cu2ZnSnS4 solar cells by heterojunction interface engineering **2016**,		2
452	Electro- and photoluminescence imaging as fast screening technique of the layer uniformity and device degradation in planar perovskite solar cells. *Journal of Applied Physics*, **2016**, 120, 035702	2.5	19
451	Limiting efficiencies of GaInP/GaAs/Ge up-conversion systems: Addressing the issue of radiative coupling. *Applied Physics Letters*, **2016**, 109, 123508	3.4	4
450	Diode laser annealing on Ge/Si (100) epitaxial films grown by magnetron sputtering. *Thin Solid Films* , **2016**, 609, 49-52	2.2	12
449	Solar cell efficiency tables (version 47). *Progress in Photovoltaics: Research and Applications*, **2016**, 24, 3-11	6.8	498
448	Nucleation and Growth Control of HC(NH2)2PbI3 for Planar Perovskite Solar Cell. *Journal of Physical Chemistry C*, **2016**, 120, 11262-11267	3.8	74
447	Optical analysis of perovskite/silicon tandem solar cells. *Journal of Materials Chemistry C*, **2016**, 4, 5679-5689	7.1	86
446	Electric field induced reversible and irreversible photoluminescence responses in methylammonium lead iodide perovskite. *Journal of Materials Chemistry C*, **2016**, 4, 9060-9068	7.1	61

445	Optical Probe Ion and Carrier Dynamics at the CH3NH3PbI3 Interface with Electron and Hole Transport Materials. *Advanced Materials Interfaces*, **2016**, 3, 1600467	4.6	18
444	Australian Photovoltaics Research and Development. *ACS Energy Letters*, **2016**, 1, 516-520	20.1	1
443	Benefit of Grain Boundaries in Organic-Inorganic Halide Planar Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 875-80	6.4	367
442	Designing Bottom Silicon Solar Cells for Multijunction Devices. *IEEE Journal of Photovoltaics*, **2015**, 5, 683-690	3.7	18
441	Room temperature optical properties of organic□organic lead halide perovskites. *Solar Energy Materials and Solar Cells*, **2015**, 137, 253-257	6.4	82
440	The Passivated Emitter and Rear Cell (PERC): From conception to mass production. *Solar Energy Materials and Solar Cells*, **2015**, 143, 190-197	6.4	237
439	Ultimate efficiency limit of single-junction perovskite and dual-junction perovskite/silicon two-terminal devices. *Japanese Journal of Applied Physics*, **2015**, 54, 08KD04	1.4	36
438	Self-Assembled Nanostructured Rear Reflector Designs for Thin-Film Solar Cells. *ACS Photonics*, **2015**, 2, 1108-1116	6.3	11
437	Mobile Charge-Induced Fluorescence Intermittency in Methylammonium Lead Bromide Perovskite. *Nano Letters*, **2015**, 15, 4644-9	11.5	97
436	Rapid thermal annealed Molybdenum back contact for Cu2ZnSnS4 thin film solar cells. *Applied Physics Letters*, **2015**, 106, 131110	3.4	20
435	40% efficient sunlight to electricity conversion. *Progress in Photovoltaics: Research and Applications*, **2015**, 23, 685-691	6.8	64
434	Photovoltaics: Perovskite cells charge forward. *Nature Materials*, **2015**, 14, 559-61	27	69
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