Anita W Y Ho-Baillie

List of Publications by Year
in descending order

174	22,202	14614 66	8835 145
papers	citations	h-index	g-index

185	185	185	21324
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Homologous Bromides Treatment for Improving the Openâ€Circuit Voltage of Perovskite Solar Cells. Advanced Materials, 2022, 34, e2106280.	11.1	26
2	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. Joule, 2022, 6, 8-15.	11.7	66
3	Scalable ways to break the efficiency limit of single-junction solar cells. Applied Physics Letters, 2022, 120, .	1.5	4
4	Inorganicâ€Cation Pseudohalide 2D Cs₂Pb(SCN)₂Br₂ Perovskite Single Crystal (Adv. Mater. 7/2022). Advanced Materials, 2022, 34, .	11.1	0
5	Inorganicâ€Cation Pseudohalide 2D Cs₂Pb(SCN)₂Br₂ Perovskite Single Crystal. Advanced Materials, 2022, 34, e2104782.	11.1	20
6	Perovskite solar cells for building integrated photovoltaicsâ€"glazing applications. Joule, 2022, 6, 1446-1474.	11.7	39
7	Integrating Lowâ€Cost Earthâ€Abundant Coâ€Catalysts with Encapsulated Perovskite Solar Cells for Efficient and Stable Overall Solar Water Splitting. Advanced Functional Materials, 2021, 31, 2008245.	7.8	43
8	Device Performance of Emerging Photovoltaic Materials (Version 1). Advanced Energy Materials, 2021, 11, 2002774.	10.2	93
9	A bottomâ€up cost analysis of siliconâ€"perovskite tandem photovoltaics. Progress in Photovoltaics: Research and Applications, 2021, 29, 401-413.	4.4	35
10	Efficient and stable wide bandgap perovskite solar cells through surface passivation with long alkyl chain organic cations. Journal of Materials Chemistry A, 2021, 9, 18454-18465.	5.2	32
11	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. Nature Communications, 2021, 12, 466.	5.8	176
12	Elucidating Mechanisms behind Ambient Storage-Induced Efficiency Improvements in Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 925-933.	8.8	52
13	Silicate glass-to-glass hermetic bonding for encapsulation of next-generation optoelectronics: A review. Materials Today, 2021, 47, 131-155.	8.3	18
14	Immediate and Temporal Enhancement of Power Conversion Efficiency in Surface-Passivated Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 39178-39185.	4.0	10
15	Complementary bulk and surface passivations for highly efficient perovskite solar cells by gas quenching. Cell Reports Physical Science, 2021, 2, 100511.	2.8	21
16	Magnetic optical rotary dispersion and magnetic circular dichroism in methylammonium lead halide perovskites. Chirality, 2021, 33, 610-617.	1.3	8
17	23.4% monolithic epitaxial GaAsP/Si tandem solar cells and quantification of losses from threading dislocations. Solar Energy Materials and Solar Cells, 2021, 230, 111299.	3.0	14
18	Recent progress and future prospects of perovskite tandem solar cells. Applied Physics Reviews, 2021, 8, .	5.5	71

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19	Device Performance of Emerging Photovoltaic Materials (Version 2). Advanced Energy Materials, 2021, 11, .	10.2	66
20	Grain Quality Engineering for Organic Metal Halide Perovskites Using Mixed Antisolvent Spraying Treatment. Solar Rrl, 2020, 4, 1900397.	3.1	9
21	A Review on Halide Perovskite Film Formation by Sequential Solution Processing for Solar Cell Applications. Energy Technology, 2020, 8, 1901114.	1.8	31
22	Grain Quality Engineering for Organic Metal Halide Perovskites Using Mixed Antisolvent Spraying Treatment. Solar Rrl, 2020, 4, 2070012.	3.1	2
23	Solar cell efficiency tables (Version 55). Progress in Photovoltaics: Research and Applications, 2020, 28, 3-15.	4.4	694
24	Visualizing the Impact of Light Soaking on Morphological Domains in an Operational Cesium Lead Halide Perovskite Solar Cell. Journal of Physical Chemistry Letters, 2020, 11, 136-143.	2.1	17
25	Pulsed laser deposition nickel oxide on crystalline silicon as hole selective contacts. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 014013.	0.6	2
26	Emerging inorganic compound thin film photovoltaic materials: Progress, challenges and strategies. Materials Today, 2020, 41, 120-142.	8.3	81
27	The importance of total hemispherical emittance in evaluating performance of building-integrated silicon and perovskite solar cells in insulated glazings. Applied Energy, 2020, 276, 115490.	5.1	11
28	High-performance solar flow battery powered by a perovskite/silicon tandem solar cell. Nature Materials, 2020, 19, 1326-1331.	13.3	90
29	The Role of Grown-In Defects in Silicon Minority Carrier Lifetime Degradation During Thermal Treatment in Epitaxial Growth Chambers. IEEE Journal of Photovoltaics, 2020, 10, 1299-1306.	1.5	1
30	Gas chromatographyâ€“mass spectrometry analyses of encapsulated stable perovskite solar cells. Science, 2020, 368, .	6.0	306
31	Transparent Electrodes Consisting of a Surfaceâ€Treated Buffer Layer Based on Tungsten Oxide for Semitransparent Perovskite Solar Cells and Fourâ€Terminal Tandem Applications. Small Methods, 2020, 4, 2000074.	4.6	41
32	Unveiling the Relationship between the Perovskite Precursor Solution and the Resulting Device Performance. Journal of the American Chemical Society, 2020, 142, 6251-6260.	6.6	103
33	Solutionâ€Processed Faraday Rotators Using Single Crystal Lead Halide Perovskites. Advanced Science, 2020, 7, 1902950.	5.6	17
34	Unveiling the Importance of Precursor Preparation for Highly Efficient and Stable Phenethylammoniumâ€Based Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900463.	3.1	2
35	Acetic Acid Assisted Crystallization Strategy for High Efficiency and Longâ€Term Stable Perovskite Solar Cell. Advanced Science, 2020, 7, 1903368.	5.6	85
36	Direct Determination of Total Hemispherical Emittance of Perovskite and Silicon Solar Cells. Cell Reports Physical Science, 2020, 1, 100008.	2.8	3

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37	Superior Selfâ€Charged and â€Powered Chemical Sensing with High Performance for NO₂ Detection at Room Temperature. Advanced Optical Materials, 2020, 8, 1901863.	3.6	27
38	A Review on Halide Perovskite Film Formation by Sequential Solution Processing for Solar Cell Applications. Energy Technology, 2020, 8, 2070043.	1.8	9
39	Unveiling the Importance of Precursor Preparation for Highly Efficient and Stable Phenethylammoniumâ€Based Perovskite Solar Cells. Solar Rrl, 2020, 4, 2070043.	3.1	0
40	Progress and Opportunities for Cs Incorporated Perovskite Photovoltaics. Trends in Chemistry, 2020, 2, 638-653.	4.4	35
41	Application of polydimethylsiloxane surface texturing on III-V//Si tandem achieving more than 2 % absolute efficiency improvement. Optics Express, 2020, 28, 3895.	1.7	8
42	Fabrication of Efficient and Stable CsPbI₃ Perovskite Solar Cells through Cation Exchange Process. Advanced Energy Materials, 2019, 9, 1901685.	10.2	101
43	Mutual Insight on Ferroelectrics and Hybrid Halide Perovskites: A Platform for Future Multifunctional Energy Conversion. Advanced Materials, 2019, 31, e1807376.	11.1	91
44	Large-Area 23%-Efficient Monolithic Perovskite/Homojunction-Silicon Tandem Solar Cell with Enhanced UV Stability Using Down-Shifting Material. ACS Energy Letters, 2019, 4, 2623-2631.	8.8	88
45	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.	3.0	8
46	Light- and bias-induced structural variations in metal halide perovskites. Nature Communications, 2019, 10, 444.	5.8	81
47	Solar cell efficiency tables (version 54). Progress in Photovoltaics: Research and Applications, 2019, 27, 565-575.	4.4	1,096
48	Pushing to the Limit: Radiative Efficiencies of Recent Mainstream and Emerging Solar Cells. ACS Energy Letters, 2019, 4, 1639-1644.	8.8	93
49	Synergistic effect of potassium and iodine from potassium triiodide complex additive on gas-quenched perovskite solar cells. Nano Energy, 2019, 63, 103853.	8.2	37
50	Reconsideration of the gallium nitride: Dual functionality as an electron transporter and transparent conductor for recyclable polymer solar cell substrate applications. Solar Energy Materials and Solar Cells, 2019, 200, 109971.	3.0	0
51	Effect of Pressing Pressure on the Performance of Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 2358-2363.	2.5	11
52	Untapped Potentials of Inorganic Metal Halide Perovskite Solar Cells. Joule, 2019, 3, 938-955.	11.7	196
53	The Impact of a Dynamic Twoâ€Step Solution Process on Film Formation of Cs_{0.15}(MA_{0.7}FA_{0.3})_{0.85}PbI₃ Perovskite and Solar Cell Performance. Small, 2019, 15, e1804858.	5.2	46
54	Review of Novel Passivation Techniques for Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2019, 3, 1800302.	3.1	139

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55	The Effect of 4-tert-Butylpyridine Removal on Efficiency and Thermal Stability in Perovskite Solar Cells. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 715-720.	0.1	5
56	On the Origin of Silicon Lifetime Degradation During Anneal in III-V Material Growth Chambers. , 2019, , .		2
57	Toward >25% Efficient Monolithic Epitaxial GaAsP/Si Tandem Solar Cells. , 2019, , .		13
58	Light-activated inorganic CsPbBr₂I perovskite for room-temperature self-powered chemical sensing. Physical Chemistry Chemical Physics, 2019, 21, 24187-24193.	1.3	23
59	Solar cell efficiency tables (Version 53). Progress in Photovoltaics: Research and Applications, 2019, 27, 3-12.	4.4	655
60	Enhanced performance via partial lead replacement with calcium for a CsPbI₃ perovskite solar cell exceeding 13% power conversion efficiency. Journal of Materials Chemistry A, 2018, 6, 5580-5586.	5.2	202
61	A techno-economic analysis method for guiding research and investment directions for c-Si photovoltaics and its application to Al-BSF, PERC, LDSE and advanced hydrogenation. Sustainable Energy and Fuels, 2018, 2, 1007-1019.	2.5	19
62	Mixed 3Dâ€“2D Passivation Treatment for Mixedâ€Cation Lead Mixedâ€Halide Perovskite Solar Cells for Higher Efficiency and Better Stability. Advanced Energy Materials, 2018, 8, 1703392.	10.2	289
63	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.	2.8	3
64	Dynamic study of the light soaking effect on perovskite solar cells by in-situ photoluminescence microscopy. Nano Energy, 2018, 46, 356-364.	8.2	67
65	Hue tunable, high color saturation and high-efficiency graphene/silicon heterojunction solar cells with MgF2/ZnS double anti-reflection layer. Nano Energy, 2018, 46, 257-265.	8.2	51
66	Passivation of Grain Boundaries by Phenethylammonium in Formamidinium-Methylammonium Lead Halide Perovskite Solar Cells. ACS Energy Letters, 2018, 3, 647-654.	8.8	283
67	Luminescence Imaging Characterization of Perovskite Solar Cells: A Note on the Analysis and Reporting the Results. Advanced Energy Materials, 2018, 8, 1702256.	10.2	16
68	Humidityâ€Induced Degradation via Grain Boundaries of HC(NH₂)₂PbI₃ Planar Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1705363.	7.8	260
69	Superior Selfâ€Powered Roomâ€Temperature Chemical Sensing with Lightâ€Activated Inorganic Halides Perovskites. Small, 2018, 14, 1702571.	5.2	82
70	Solution-Processed, Silver-Doped NiO_x as Hole Transporting Layer for High-Efficiency Inverted Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 561-570.	2.5	95
71	Balancing electrical and optical losses for efficient 4-terminal Siâ€“perovskite solar cells with solution processed percolation electrodes. Journal of Materials Chemistry A, 2018, 6, 3583-3592.	5.2	102
72	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.	2.5	3

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73	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.	0.8	3
74	Advanced interface modelling of n-Si/HNO3 doped graphene solar cells to identify pathways to high efficiency. Applied Surface Science, 2018, 434, 102-111.	3.1	10
75	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.	3.0	113
76	Solar cell efficiency tables (version 51). Progress in Photovoltaics: Research and Applications, 2018, 26, 3-12.	4.4	729
77	Simulation of Solar Cells Employing 2 Dimensional Transition Metal Dichalcogenide â€“ Silicon Front Surfaces. , 2018, , .		2
78	Pulsed Laser Deposition Nickel Oxide on crystalline Silicon as hole selective contacts. , 2018, , .		1
79	Effect of Silicon Front Surface Doping Profile on GaP/Si Heterostructure for III-V/GaP/Si Multi-junction Solar Cells. , 2018, , .		2
80	Broadband Reflectance Reduction for Wafer Bonded III-V//Si tandem Cell Using Polydimethylsiloxane -Replicated Surface Texturing. , 2018, , .		0
81	Low-temperature epitaxial growth of Ge on Si, towards a cost-effective substrate for III-V solar cells. , 2018, , .		0
82	Electrode Design to Overcome Substrate Transparency Limitations for Highly Efficient 1 cm2 Mesoscopic Perovskite Solar Cells. Joule, 2018, 2, 2694-2705.	11.7	34
83	Epitaxial Growth of Ge on Si by Magnetron Sputtering. , 2018, , .		0
84	Enhancing stability for organic-inorganic perovskite solar cells by atomic layer deposited Al2O3 encapsulation. Solar Energy Materials and Solar Cells, 2018, 188, 37-45.	3.0	67
85	21.8% Efficient Monolithic Perovskite/Homo-Junction-Silicon Tandem Solar Cell on 16 cm². ACS Energy Letters, 2018, 3, 2299-2300.	8.8	96
86	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.	15.6	172
87	Scaling limits to large area perovskite solar cell efficiency. Progress in Photovoltaics: Research and Applications, 2018, 26, 659-674.	4.4	31
88	Perovskites cover silicon textures. Nature Materials, 2018, 17, 751-752.	13.3	19
89	Solar cell efficiency tables (version 52). Progress in Photovoltaics: Research and Applications, 2018, 26, 427-436.	4.4	592
90	Acoustic-optical phonon up-conversion and hot-phonon bottleneck in lead-halide perovskites. Nature Communications, 2017, 8, 14120.	5.8	330

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91	High-Efficiency Rubidium-Incorporated Perovskite Solar Cells by Gas Quenching. ACS Energy Letters, 2017, 2, 438-444.	8.8	247
92	In situ X-ray diffraction study on epitaxial growth of SixGe1â‾'x on Si by aluminium-assisted crystallization. Journal of Alloys and Compounds, 2017, 695, 1672-1676.	2.8	4
93	Spatial Distribution of Lead Iodide and Local Passivation on Organo-Lead Halide Perovskite. ACS Applied Materials & Interfaces, 2017, 9, 6072-6078.	4.0	62
94	An effective method of predicting perovskite solar cell lifetimeâ€"Case study on planar CH 3 NH 3 PbI 3 and HC(NH 2) 2 PbI 3 perovskite solar cells and hole transfer materials of spiro-OMeTAD and PTAA. Solar Energy Materials and Solar Cells, 2017, 162, 41-46.	3.0	77
95	A manufacturing cost estimation method with uncertainty analysis and its application to perovskite on glass photovoltaic modules. Progress in Photovoltaics: Research and Applications, 2017, 25, 390-405.	4.4	171
96	Perovskite Solar Cells: The Birth of a New Era in Photovoltaics. ACS Energy Letters, 2017, 2, 822-830.	8.8	305
97	A life cycle assessment of perovskite/silicon tandem solar cells. Progress in Photovoltaics: Research and Applications, 2017, 25, 679-695.	4.4	74
98	Diode laser annealing of epitaxy Ge on sapphire (0 0 0 1) grown by magnetron sputtering. Materials Letters, 2017, 208, 35-38.	1.3	4
99	Impact of microstructure on the electronâ€"hole interaction in lead halide perovskites. Energy and Environmental Science, 2017, 10, 1358-1366.	15.6	36
100	Spin-coating free fabrication for highly efficient perovskite solar cells. Solar Energy Materials and Solar Cells, 2017, 168, 165-171.	3.0	70
101	Solar cell efficiency tables (version 49). Progress in Photovoltaics: Research and Applications, 2017, 25, 3-13.	4.4	582
102	Solar cell efficiency tables (version 50). Progress in Photovoltaics: Research and Applications, 2017, 25, 668-676.	4.4	792
103	Lessons Learnt from Spatially Resolved Electroâ€•and Photoluminescence Imaging: Interfacial Delamination in CH₃NH₃PbI₃ Planar Perovskite Solar Cells upon Illumination. Advanced Energy Materials, 2017, 7, 1602111.	10.2	50
104	How reliable are efficiency measurements of perovskite solar cells? The first inter-comparison, between two accredited and eight non-accredited laboratories. Journal of Materials Chemistry A, 2017, 5, 22542-22558.	5.2	70
105	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.	1.5	101
106	Monolithic Wide Band Gap Perovskite/Perovskite Tandem Solar Cells with Organic Recombination Layers. Journal of Physical Chemistry C, 2017, 121, 27256-27262.	1.5	40
107	Strontium-Doped Low-Temperature-Processed CsPbI₂Br Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 2319-2325.	8.8	314
108	Effects of Al thickness on one-step aluminium-assisted crystallization of Ge epitaxy on Si by magnetron sputtering. Materials Letters, 2017, 209, 32-35.	1.3	1

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109	Overcoming the Challenges of Large-Area High-Efficiency Perovskite Solar Cells. ACS Energy Letters, 2017, 2, 1978-1984.	8.8	130
110	Accelerated Lifetime Testing of Organicâ€“Inorganic Perovskite Solar Cells Encapsulated by Polyisobutylene. ACS Applied Materials & Interfaces, 2017, 9, 25073-25081.	4.0	165
111	Light Illumination Induced Photoluminescence Enhancement and Quenching in Lead Halide Perovskite. Solar Rrl, 2017, 1, 1600001.	3.1	109
112	Numerical Simulation of p-type front junction PERL Silicon cell for III-V lSi Tandem Devices. , 2017, , .		0
113	Optimum band gap combinations to make best use of new photovoltaic materials. Solar Energy, 2016, 135, 750-757.	2.9	46
114	The ultimate efficiency of organolead halide perovskite solar cells limited by Auger processes. Journal of Materials Research, 2016, 31, 2197-2203.	1.2	6
115	Critical Role of Grain Boundaries for Ion Migration in Formamidinium and Methylammonium Lead Halide Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1600330.	10.2	360
116	Beneficial Effects of PbI₂ Incorporated in Organoâ€Lead Halide Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1502104.	10.2	387
117	Temperature dependent optical properties of CH3NH3PbI3 perovskite by spectroscopic ellipsometry. Applied Physics Letters, 2016, 108, .	1.5	68
118	Unravelling the mechanism of photo-activated ion dynamics in organic-inorganic perovskites. , 2016, , .		1
119	A â€œsmart stackâ€•triple-junction cell consisting of InGaP/GaAs and crystalline Si. , 2016, , .		6
120	Dislocation density reduction of virtual Ge substrates by CW diode laser treatment. , 2016, , .		0
121	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, .	1.1	27
122	Diode laser annealing on Ge/Si (100) epitaxial films grown by magnetron sputtering. Thin Solid Films, 2016, 609, 49-52.	0.8	13
123	Spectral dependence of direct and trap-mediated recombination processes in lead halide perovskites using time resolved microwave conductivity. Physical Chemistry Chemical Physics, 2016, 18, 12043-12049.	1.3	21
124	Nucleation and Growth Control of HC(NH2)2PbI3 for Planar Perovskite Solar Cell. Journal of Physical Chemistry C, 2016, 120, 11262-11267.	1.5	80
125	Optical analysis of perovskite/silicon tandem solar cells. Journal of Materials Chemistry C, 2016, 4, 5679-5689.	2.7	112
126	Electric field induced reversible and irreversible photoluminescence responses in methylammonium lead iodide perovskite. Journal of Materials Chemistry C, 2016, 4, 9060-9068.	2.7	77

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127	Optical Probe Ion and Carrier Dynamics at the CH₃NH₃PbI₃ Interface with Electron and Hole Transport Materials. Advanced Materials Interfaces, 2016, 3, 1600467.	1.9	23
128	CsPbIBr₂ Perovskite Solar Cell by Spray-Assisted Deposition. ACS Energy Letters, 2016, 1, 573-577.	8.8	230
129	Hole Transport Layer Free Inorganic CsPbIBr₂ Perovskite Solar Cell by Dual Source Thermal Evaporation. Advanced Energy Materials, 2016, 6, 1502202.	10.2	373
130	Ultrafast Carrier Dynamics in Methylammonium Lead Bromide Perovskite. Journal of Physical Chemistry C, 2016, 120, 2542-2547.	1.5	54
131	Defect trapping states and charge carrier recombination in organicâ€“inorganic halide perovskites. Journal of Materials Chemistry C, 2016, 4, 793-800.	2.7	171
132	Time-resolved fluorescence anisotropy study of organic lead halide perovskite. Solar Energy Materials and Solar Cells, 2016, 151, 102-112.	3.0	14
133	Mobile Ion Induced Slow Carrier Dynamics in Organicâ€“Inorganic Perovskite CH₃NH₃PbBr₃. ACS Applied Materials & Interfaces, 2016, 8, 5351-5357.	4.0	100
134	Photoluminescence characterisations of a dynamic aging process of organicâ€“inorganic CH₃NH₃PbBr₃perovskite. Nanoscale, 2016, 8, 1926-1931.	2.8	61
135	Potential performance of â€œout-of-sequenceâ€•multi-junction solar cells: iii-v on virtual ge substrates with active si bottom sub-cell. , 2015, , .		1
136	The design of single-junction GaAs and dual-junction GaAs/Si in the presence of threading dislocation density. , 2015, , .		1
137	Polaronic exciton binding energy in iodide and bromide organic-inorganic lead halide perovskites. Applied Physics Letters, 2015, 107, .	1.5	102
138	Optical modelling data for room temperature optical properties of organicâ€“inorganic lead halide perovskites. Data in Brief, 2015, 3, 201-208.	0.5	13
139	General design considerations for making optimal use of new photovoltaic materials. , 2015, , .		1
140	Optical Properties of Photovoltaic Organicâ€“Inorganic Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2015, 6, 4774-4785.	2.1	280
141	Illumination dependent carrier dynamics of CH₃NH₃PbBr₃perovskite. Proceedings of SPIE, 2015, , .	0.8	1
142	Ultrafast charge generation and relaxation dynamics in methylammonium lead bromide perovskites. , 2015, , .		0
143	Methylammonium Lead Bromide Perovskite-Based Solar Cells by Vapor-Assisted Deposition. Journal of Physical Chemistry C, 2015, 119, 3545-3549.	1.5	223
144	Benefit of Grain Boundaries in Organicâ€“Inorganic Halide Planar Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2015, 6, 875-880.	2.1	422

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145	Designing Bottom Silicon Solar Cells for Multijunction Devices. IEEE Journal of Photovoltaics, 2015, 5, 683-690.	1.5	19
146	Room temperature optical properties of organicâ€“inorganic lead halide perovskites. Solar Energy Materials and Solar Cells, 2015, 137, 253-257.	3.0	96
147	Input Parameters for the Simulation of Silicon Solar Cells in 2014. IEEE Journal of Photovoltaics, 2015, 5, 1250-1263.	1.5	141
148	Ultimate efficiency limit of single-junction perovskite and dual-junction perovskite/silicon two-terminal devices. Japanese Journal of Applied Physics, 2015, 54, 08KD04.	0.8	45
149	Mobile Charge-Induced Fluorescence Intermittency in Methylammonium Lead Bromide Perovskite. Nano Letters, 2015, 15, 4644-4649.	4.5	108
150	Supercharging Silicon Solar Cell Performance by Means of Multijunction Concept. IEEE Journal of Photovoltaics, 2015, 5, 968-976.	1.5	96
151	Four-Terminal Tandem Solar Cells Using CH₃NH₃PbBr₃ by Spectrum Splitting. Journal of Physical Chemistry Letters, 2015, 6, 3931-3934.	2.1	77
152	Cyclic thermal annealing on Ge/Si(100) epitaxial films grown by magnetron sputtering. Thin Solid Films, 2015, 574, 99-102.	0.8	22
153	Results from coupled optical and electrical sentaurus TCAD models of a gallium phosphide on silicon electron carrier selective contact solar cell. , 2014, , .		16
154	One-step aluminium-assisted crystallization of Ge epitaxy on Si by magnetron sputtering. Applied Physics Letters, 2014, 104, 052107.	1.5	10
155	Correction to â€œMorphology and Carrier Extraction Study of Organicâ€“Inorganic Metal Halide Perovskite by One- and Two-Photon Fluorescence Microscopyâ€. Journal of Physical Chemistry Letters, 2014, 5, 4038-4038.	2.1	2
156	Morphology and Carrier Extraction Study of Organicâ€“Inorganic Metal Halide Perovskite by One- and Two-Photon Fluorescence Microscopy. Journal of Physical Chemistry Letters, 2014, 5, 3849-3853.	2.1	84
157	The emergence of perovskite solar cells. Nature Photonics, 2014, 8, 506-514.	15.6	5,727
158	Epitaxial growth of single-crystalline siliconâ€“germanium on silicon by aluminium-assisted crystallization. Scripta Materialia, 2014, 71, 25-28.	2.6	15
159	Progress toward a Si-plus architecture: epitaxially-integrable Si sub-cells for III-V/Si multijunction photovoltaics. , 2014, , .		4
160	Angular reflection study to reduce plasmonic losses in the dielectrically displaced back reflectors of silicon solar cells. Solar Energy Materials and Solar Cells, 2013, 117, 343-349.	3.0	4
161	Characterization of 2-D reflection pattern from textured front surfaces of silicon solar cells. Solar Energy Materials and Solar Cells, 2013, 115, 42-51.	3.0	20
162	Ideal GaP/Si heterostructures grown by MOCVD: III-V/active-Si subcells, multijuntions, and MBE-to-MOCVD III-V/Si interface science. , 2013, , .		10

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163	Design of bottom silicon solar cell for multijunction devices. , 2013, , .		3
164	The effect of rear surface passivation layer thickness on high efficiency solar cells with planar and scattering metal reflectors. , 2012, , .		0
165	Enhanced light trapping for high efficiency crystalline solar cells by the application of rear surface plasmons. Solar Energy Materials and Solar Cells, 2012, 101, 217-226.	3.0	64
166	Utilization of Direct and Diffuse Sunlight in a Dye-Sensitized Solar Cell â€" Silicon Photovoltaic Hybrid Concentrator System. Journal of Physical Chemistry Letters, 2011, 2, 581-585.	2.1	49
167	Effect of electroless nickel on the series resistance of high-efficiency inkjet printed passivated emitter rear contacted solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 2102-2107.	3.0	9
168	Forty three per cent composite splitâ€spectrum concentrator solar cell efficiency. Progress in Photovoltaics: Research and Applications, 2010, 18, 42-47.	4.4	82
169	Direct patterned etching of silicon dioxide and silicon nitride dielectric layers by inkjet printing. Solar Energy Materials and Solar Cells, 2009, 93, 1865-1874.	3.0	37
170	Forming openings to semiconductor layers of silicon solar cells by inkjet printing. Solar Energy Materials and Solar Cells, 2008, 92, 1410-1415.	3.0	33
171	Maskless patterned etching of silicon dioxide by inkjet printing. Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on, 2008, , .	0.0	6
172	New education opportunities and research activities at UNSW. Proceedings of SPIE, 2007, , .	0.8	0
173	Strategies for improving performance, reducing toxicity and improving stability for perovskite solar cells. , 0, , .		0
174	Intrinsic stability of perovskites and meta-stability of perovskite solar cells. , 0, , .		0