Kylie R Catchpole

List of Publications by Year
in descending order

158 papers	13,168 citations	26610 56 h-index	22808 112 g-index
160 all docs	160 docs citations	160 times ranked	12424 citing authors

#	Article	IF	Citations
1	Surface plasmon enhanced silicon solar cells. Journal of Applied Physics, 2007, 101, 093105.	1.1	1,624
2	Plasmonic solar cells. Optics Express, 2008, 16, 21793.	1.7	1,411
3	Design principles for particle plasmon enhanced solar cells. Applied Physics Letters, 2008, 93, .	1.5	762
4	Tunable light trapping for solar cells using localized surface plasmons. Journal of Applied Physics, 2009, 105, .	1.1	476
5	Rubidium Multication Perovskite with Optimized Bandgap for Perovskiteâ€Silicon Tandem with over 26% Efficiency. Advanced Energy Materials, 2017, 7, 1700228.	10.2	443
6	A Universal Doubleâ€Side Passivation for High Openâ€Circuit Voltage in Perovskite Solar Cells: Role of Carbonyl Groups in Poly(methyl methacrylate). Advanced Energy Materials, 2018, 8, 1801208.	10.2	387
7	Interface passivation using ultrathin polymerâ€"fullerene films for high-efficiency perovskite solar cells with negligible hysteresis. Energy and Environmental Science, 2017, 10, 1792-1800.	15.6	381
8	The 2020 photovoltaic technologies roadmap. Journal Physics D: Applied Physics, 2020, 53, 493001.	1.3	274
9	Nanoscale localized contacts for high fill factors in polymer-passivated perovskite solar cells. Science, 2021, 371, 390-395.	6.0	270
10	Nanophotonic light trapping in solar cells. Journal of Applied Physics, 2012, 112, .	1.1	243
11	Enhanced emission from Si-based light-emitting diodes using surface plasmons. Applied Physics Letters, 2006, 88, 161102.	1.5	242
12	Designing periodic arrays of metal nanoparticles for light-trapping applications in solar cells. Applied Physics Letters, 2009, 95, .	1.5	214
13	Mechanically-stacked perovskite/CIGS tandem solar cells with efficiency of 23.9% and reduced oxygen sensitivity. Energy and Environmental Science, 2018, 11, 394-406.	15.6	209
14	Plasmon-enhanced internal photoemission for photovoltaics: Theoretical efficiency limits. Applied Physics Letters, 2012, 101, 073905.	1.5	197
15	Monolithic perovskite/silicon-homojunction tandem solar cell with over 22% efficiency. Energy and Environmental Science, 2017, 10, 2472-2479.	15.6	178
16	Efficient Indiumâ€Doped TiO<i>_x</i> Electron Transport Layers for Highâ€Performance Perovskite Solar Cells and Perovskiteâ€Silicon Tandems. Advanced Energy Materials, 2017, 7, 1601768.	10.2	167
17	Tandem Solar Cells Based on High-Efficiency c-Si Bottom Cells: Top Cell Requirements for >30% Efficiency. IEEE Journal of Photovoltaics, 2014, 4, 208-214.	1.5	164
18	Hysteresis phenomena in perovskite solar cells: the many and varied effects of ionic accumulation. Physical Chemistry Chemical Physics, 2017, 19, 3094-3103.	1.3	159

#	Article	IF	Citations
19	Asymmetry in photocurrent enhancement by plasmonic nanoparticle arrays located on the front or on the rear of solar cells. Applied Physics Letters, 2010, 96, .	1.5	153
20	Centimetre-scale perovskite solar cells with fill factors of more than 86 per cent. Nature, 2022, 601, 573-578.	13.7	137
21	Structural engineering using rubidium iodide as a dopant under excess lead iodide conditions for high efficiency and stable perovskites. Nano Energy, 2016, 30, 330-340.	8.2	133
22	Doubleâ€Sided Surface Passivation of 3D Perovskite Film for Highâ€Efficiency Mixedâ€Dimensional Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 1907962.	7.8	130
23	Effective light trapping in polycrystalline silicon thin-film solar cells by means of rear localized surface plasmons. Applied Physics Letters, 2010, 96, .	1.5	128
24	The effect of dielectric spacer thickness on surface plasmon enhanced solar cells for front and rear side depositions. Journal of Applied Physics, 2011, 109, .	1.1	125
25	Highly stable carbon-based perovskite solar cell with a record efficiency of over 18% via hole transport engineering. Journal of Materials Science and Technology, 2019, 35, 987-993.	5.6	123
26	In situ recombination junction between p-Si and TiO ₂ enables high-efficiency monolithic perovskite/Si tandem cells. Science Advances, 2018, 4, eaau9711.	4.7	122
27	A review of thin-film crystalline silicon for solar cell applications. Part 2: Foreign substrates. Solar Energy Materials and Solar Cells, 2001, 68, 173-215.	3.0	115
28	Plasmonic lightâ€trapping for Si solar cells using selfâ€assembled, Ag nanoparticles. Progress in Photovoltaics: Research and Applications, 2010, 18, 500-504.	4.4	114
29	Optics and Light Trapping for Tandem Solar Cells on Silicon. IEEE Journal of Photovoltaics, 2014, 4, 1380-1386.	1.5	114
30	Light and Electrically Induced Phase Segregation and Its Impact on the Stability of Quadruple Cation High Bandgap Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 26859-26866.	4.0	114
31	The two faces of capacitance: New interpretations for electrical impedance measurements of perovskite solar cells and their relation to hysteresis. Journal of Applied Physics, 2018, 124, .	1.1	110
32	High Efficiency Perovskiteâ€Silicon Tandem Solar Cells: Effect of Surface Coating versus Bulk Incorporation of 2D Perovskite. Advanced Energy Materials, 2020, 10, 1903553.	10.2	110
33	Plasmonics and nanophotonics for photovoltaics. MRS Bulletin, 2011, 36, 461-467.	1.7	108
34	Design and operando/in situ characterization of preciousâ€metalâ€free electrocatalysts for alkaline water splitting. , 2020, 2, 582-613.		105
35	Identifying the Cause of Voltage and Fill Factor Losses in Perovskite Solar Cells by Using Luminescence Measurements. Energy Technology, 2017, 5, 1827-1835.	1.8	103
36	A review of thin-film crystalline silicon for solar cell applications. Part 1: Native substrates. Solar Energy Materials and Solar Cells, 2001, 68, 135-171.	3.0	101

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37	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
38	Origin of Efficiency and Stability Enhancement in Highâ€Performing Mixed Dimensional 2Dâ€3D Perovskite Solar Cells: A Review. Advanced Functional Materials, 2022, 32, 2009164.	7.8	96
39	Device Performance of Emerging Photovoltaic Materials (Version 1). Advanced Energy Materials, 2021, 11, 2002774.	10.2	93
40	Large-scale stationary hydrogen storage via liquid organic hydrogen carriers. IScience, 2021, 24, 102966.	1.9	93
41	Perovskite Solar Cells Employing Copper Phthalocyanine Hole-Transport Material with an Efficiency over 20% and Excellent Thermal Stability. ACS Energy Letters, 2018, 3, 2441-2448.	8.8	90
42	Absorption enhancement due to scattering by dipoles into silicon waveguides. Journal of Applied Physics, 2006, 100, 044504.	1.1	87
43	Monolithic Perovskite/Si Tandem Solar Cells: Pathways to Over 30% Efficiency. Advanced Energy Materials, 2020, 10, 1902840.	10.2	87
44	Roadmap on optical energy conversion. Journal of Optics (United Kingdom), 2016, 18, 073004.	1.0	85
45	Superior Selfâ€Powered Roomâ€Temperature Chemical Sensing with Lightâ€Activated Inorganic Halides Perovskites. Small, 2018, 14, 1702571.	5.2	82
46	Light Management: A Key Concept in High-Efficiency Perovskite/Silicon Tandem Photovoltaics. Journal of Physical Chemistry Letters, 2019, 10, 3159-3170.	2.1	81
47	Semitransparent Perovskite Solar Cell With Sputtered Front and Rear Electrodes for a Four-Terminal Tandem. IEEE Journal of Photovoltaics, 2016, 6, 679-687.	1.5	80
48	Design guidelines for perovskite/silicon 2-terminal tandem solar cells: an optical study. Optics Express, 2016, 24, A1454.	1.7	76
49	Optimal wavelength scale diffraction gratings for light trapping in solar cells. Journal of Optics (United Kingdom), 2012, 14, 024012.	1.0	74
50	Ultralow Absorption Coefficient and Temperature Dependence of Radiative Recombination of CH₃NH₃PbI₃ Perovskite from Photoluminescence. Journal of Physical Chemistry Letters, 2015, 6, 767-772.	2.1	73
51	Surface plasmons for enhanced silicon light-emitting diodes and solar cells. Journal of Luminescence, 2006, 121, 315-318.	1.5	71
52	Inverted Hysteresis in CH₃NH₃PbI₃ Solar Cells: Role of Stoichiometry and Band Alignment. Journal of Physical Chemistry Letters, 2017, 8, 2672-2680.	2.1	71
53	Light trapping with plasmonic particles: beyond the dipole model. Optics Express, 2011, 19, 25230.	1.7	70
54	Device Performance of Emerging Photovoltaic Materials (Version 2). Advanced Energy Materials, 2021, 11, .	10.2	66

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55	Resonant SPP modes supported by discrete metal nanoparticles on high-index substrates. Optics Express, 2011, 19, A146.	1.7	65
56	Resonant nano-antennas for light trapping in plasmonic solar cells. Journal Physics D: Applied Physics, 2011, 44, 185101.	1.3	61
57	Over 17% Efficiency Standâ€Alone Solar Water Splitting Enabled by Perovskiteâ€Silicon Tandem Absorbers. Advanced Energy Materials, 2020, 10, 2000772.	10.2	58
58	A conceptual model of light coupling by pillar diffraction gratings. Journal of Applied Physics, 2007, 101, 063105.	1.1	55
59	Unconventional direct synthesis of Ni₃N/Ni with N-vacancies for efficient and stable hydrogen evolution. Energy and Environmental Science, 2022, 15, 185-195.	15.6	44
60	Light and elevated temperature induced degradation (LeTID) in perovskite solar cells and development of stable semi-transparent cells. Solar Energy Materials and Solar Cells, 2018, 188, 27-36.	3.0	43
61	Total absorption of visible light in ultrathin weakly absorbing semiconductor gratings. Optica, 2016, 3, 556.	4.8	42
62	A re-evaluation of transparent conductor requirements for thin-film solar cells. Journal of Materials Chemistry A, 2016, 4, 4490-4496.	5.2	42
63	Improved Reproducibility for Perovskite Solar Cells with 1 cm² Active Area by a Modified Two-Step Process. ACS Applied Materials & Interfaces, 2017, 9, 5974-5981.	4.0	41
64	Evaporated and solution deposited planar Sb₂S₃ solar cells: A comparison and its significance. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 108-113.	0.8	40
65	Perovskite Photovoltaic Integrated CdS/TiO₂ Photoanode for Unbiased Photoelectrochemical Hydrogen Generation. ACS Applied Materials & Interfaces, 2018, 10, 23766-23773.	4.0	38
66	Nanoimprinted Tio₂ solâ€“gel passivating diffraction gratings for solar cell applications. Progress in Photovoltaics: Research and Applications, 2012, 20, 143-148.	4.4	37
67	Combined Bulk and Surface Passivation in Dimensionally Engineered 2Dâ€3D Perovskite Films via Chlorine Diffusion. Advanced Functional Materials, 2021, 31, 2104251.	7.8	37
68	The analytical basis for the resonances and anti-resonances of loop antennas and meta-material ring resonators. Journal of Applied Physics, 2012, 112, .	1.1	36
69	Photoluminescence study of time- and spatial-dependent light induced trap de-activation in CH₃NH₃PbI₃ perovskite films. Physical Chemistry Chemical Physics, 2016, 18, 22557-22564.	1.3	36
70	A bottomâ€up cost analysis of siliconâ€“perovskite tandem photovoltaics. Progress in Photovoltaics: Research and Applications, 2021, 29, 401-413.	4.4	35
71	Direct Solar Hydrogen Generation at 20% Efficiency Using Lowâ€Cost Materials. Advanced Energy Materials, 2021, 11, 2101053.	10.2	35
72	Combined plasmonic and dielectric rear reflectors for enhanced photocurrent in solar cells. Applied Physics Letters, 2012, 100, .	1.5	34

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73	In Situ Formation of Mixedâ€Dimensional Surface Passivation Layers in Perovskite Solar Cells with Dualâ€Isomer Alkylammonium Cations. Small, 2020, 16, e2005022.	5.2	34
74	Recent Advances in Materials Design Using Atomic Layer Deposition for Energy Applications. Advanced Functional Materials, 2022, 32, .	7.8	34
75	Light trapping efficiency comparison of Si solar cell textures using spectral photoluminescence. Optics Express, 2015, 23, A391.	1.7	33
76	Modelling the PERC structure for industrial quality silicon. Solar Energy Materials and Solar Cells, 2002, 73, 189-202.	3.0	32
77	A conceptual model of the diffuse transmittance of lamellar diffraction gratings on solar cells. Journal of Applied Physics, 2007, 102, .	1.1	32
78	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
79	Earthâ€Abundant Amorphous Electrocatalysts for Electrochemical Hydrogen Production: A Review. Advanced Energy and Sustainability Research, 2021, 2, 2000071.	2.8	30
80	Holeâ€Storage Enhanced aâ€Si Photocathodes for Efficient Hydrogen Production. Angewandte Chemie - International Edition, 2021, 60, 11966-11972.	7.2	29
81	Metal halide perovskite: a game-changer for photovoltaics and solar devices via a tandem design. Science and Technology of Advanced Materials, 2018, 19, 53-75.	2.8	28
82	Nanostructures in photovoltaics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 3493-3503.	1.6	27
83	Comparing nanowire, multijunction, and single junction solar cells in the presence of light trapping. Journal of Applied Physics, 2011, 109, .	1.1	27
84	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
85	Theory of the circular closed loop antenna in the terahertz, infrared, and optical regions. Journal of Applied Physics, 2013, 114, .	1.1	26
86	Epitaxial lateral overgrowth of Si on (100)Si substrates by liquid-phase epitaxy. Journal of Crystal Growth, 1998, 186, 369-374.	0.7	23
87	The Epilift technique for Si solar cells. Applied Physics A: Materials Science and Processing, 1999, 69, 195-199.	1.1	23
88	Light-activated inorganic CsPbBr₂I perovskite for room-temperature self-powered chemical sensing. Physical Chemistry Chemical Physics, 2019, 21, 24187-24193.	1.3	23
89	Reduction kinetics for large spherical 2:1 ironâ€“manganese oxide redox materials for thermochemical energy storage. Chemical Engineering Science, 2019, 201, 74-81.	1.9	22
90	Above 23% Efficiency by Binary Surface Passivation of Perovskite Solar Cells Using Guanidinium and Octylammonium Spacer Cations. Solar Rrl, 2022, 6, .	3.1	22

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91	27.6% Perovskite/câ€Si Tandem Solar Cells Using Industrial Fabricated TOPCon Device. Advanced Energy Materials, 2022, 12, .	10.2	22
92	Resonant enhancement of dielectric and metal nanoparticle arrays for light trapping in solar cells. Optics Express, 2012, 20, 13226.	1.7	21
93	Probing a doubly driven two-level atom. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, 240-244.	1.4	20
94	Evaluating Plasmonic Light Trapping With Photoluminescence. IEEE Journal of Photovoltaics, 2013, 3, 1292-1297.	1.5	20
95	Reduction of ironâ€"manganese oxide particles in a lab-scale packed-bed reactor for thermochemical energy storage. Chemical Engineering Science, 2020, 221, 115700.	1.9	19
96	Enhanced light trapping in solar cells using snow globe coating. Progress in Photovoltaics: Research and Applications, 2012, 20, 837-842.	4.4	18
97	Plasmonic Near-Field Enhancement for Planar Ultra-Thin Photovoltaics. IEEE Photonics Journal, 2013, 5, 8400608-8400608.	1.0	18
98	Imaging Spatial Variations of Optical Bandgaps in Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1802790.	10.2	18
99	Effect of Nanoparticle Size Distribution on the Performance of Plasmonic Thin-Film Solar Cells: Monodisperse Versus Multidisperse Arrays. IEEE Journal of Photovoltaics, 2013, 3, 267-270.	1.5	17
100	Filterless Spectral Splitting Perovskiteâ€"Silicon Tandem System With >23% Calculated Efficiency. IEEE Journal of Photovoltaics, 2016, 6, 1432-1439.	1.5	15
101	High external quantum efficiency of planar semiconductor structures. Semiconductor Science and Technology, 2004, 19, 1232-1235.	1.0	14
102	Light trapping with titanium dioxide diffraction gratings fabricated by nanoimprinting. Progress in Photovoltaics: Research and Applications, 2014, 22, 587-592.	4.4	14
103	Effective thermal conductivity of a bed packed with granular ironâ€"manganese oxide for thermochemical energy storage. Chemical Engineering Science, 2019, 207, 490-494.	1.9	14
104	High external quantum efficiency from double heterostructure InGaP/GaAs layers as selective emitters for thermophotonic systems. Semiconductor Science and Technology, 2004, 19, 1268-1272.	1.0	13
105	Transparent Long-Pass Filter with Short-Wavelength Scattering Based on <i>Morpho</i> Butterfly Nanostructures. ACS Photonics, 2017, 4, 741-745.	3.2	13
106	Diffuse reflectors for improving light management in solar cells: a review and outlook. Journal of Optics (United Kingdom), 2017, 19, 014001.	1.0	13
107	Investigation of the mechanisms of plasmon-mediated photocatalysis: synergistic contribution of near-field and charge transfer effects. Journal of Materials Chemistry C, 2022, 10, 7511-7524.	2.7	13
108	Defect engineering for creating and enhancing bulk photovoltaic effect in centrosymmetric materials. Journal of Materials Chemistry A, 2021, 9, 13182-13191.	5.2	12

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109	Mixed-dimensional organicâ€“inorganic metal halide perovskite (OIMHP) based gas sensors with superior stability for NO₂ detection. Materials Advances, 2022, 3, 1263-1271.	2.6	12
110	Analytical approach for design of blazed dielectric gratings for light trapping in solar cells. Journal Physics D: Applied Physics, 2011, 44, 055103.	1.3	11
111	Flame-made ultra-porous TiO₂layers for perovskite solar cells. Nanotechnology, 2016, 27, 505403.	1.3	11
112	Thin semiconducting layers and nanostructures as active and passive emitters for thermophotonics and thermophotovoltaics. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 91-95.	1.3	10
113	Spatially and Spectrally Resolved Absorptivity: New Approach for Degradation Studies in Perovskite and Perovskite/Silicon Tandem Solar Cells. Advanced Energy Materials, 2020, 10, 1902901.	10.2	9
114	Highly Reflective Dielectric Back Reflector for Improved Efficiency of Tandem Thin-Film Solar Cells. International Journal of Photoenergy, 2016, 2016, 1-7.	1.4	8
115	Unraveling the Role of Energy Band Alignment and Mobile Ions on Interfacial Recombination in Perovskite Solar Cells. Solar Rrl, 2022, 6, .	3.1	8
116	Contactless and Spatially Resolved Determination of Currentâˆ’Voltage Curves in Perovskite Solar Cells via Photoluminescence. Solar Rrl, 2021, 5, 2100348.	3.1	7
117	Electrical properties of perovskite solar cells by illumination intensity and temperatureâ€dependent photoluminescence imaging. Progress in Photovoltaics: Research and Applications, 2022, 30, 1038-1044.	4.4	7
118	Modelling a monolithically integrated vertical junction cell in low and high injection. Progress in Photovoltaics: Research and Applications, 2003, 11, 113-124.	4.4	6
119	High performance bulk photovoltaics in narrow-bandgap centrosymmetric ultrathin films. Materials Horizons, 2020, 7, 898-904.	6.4	6
120	Anion Exchangeâ€Induced Crystal Engineering via Hotâ€Pressing Sublimation Affording Highly Efficient and Stable Perovskite Solar Cells. Solar Rrl, 2021, 5, 2000729.	3.1	6
121	Thin semiconducting layers as active and passive emitters for thermophotonics and thermophotovoltaics. Solar Energy, 2004, 76, 251-254.	2.9	5
122	Designing Nano-loop antenna arrays for light-trapping in solar cells. , 2013, , .		5
123	Perovskite Solar Cells: Imaging Spatial Variations of Optical Bandgaps in Perovskite Solar Cells (Adv.) Tj ETQq1 1 0.784314 rgBT /Over	10.2	5
124	Efficient Passivation and Low Resistivity for p⁺-Si/TiO₂ Contact by Atomic Layer Deposition. ACS Applied Energy Materials, 2020, 3, 6291-6301.	2.5	5
125	Ultrathin HfO2 passivated silicon photocathodes for efficient alkaline water splitting. Applied Physics Letters, 2021, 119, .	1.5	5
126	Photoluminescence enhancement towards high efficiency plasmonic solar cells. , 2013, , .		4

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127	Solar Water Splitting: Over 17% Efficiency Standâ€Alone Solar Water Splitting Enabled by Perovskiteâ€Silicon Tandem Absorbers (Adv. Energy Mater. 28/2020). Advanced Energy Materials, 2020, 10, 2070122.	10.2	4
128	Wafer Surface Charge Reversal as a Method of Simplifying Nanosphere Lithography for Reactive Ion Etch Texturing of Solar Cells. Advances in OptoElectronics, 2007, 2007, 1-4.	0.6	3
129	Red-shifting the surface plasmon resonance of silver nanoparticles for light trapping in solar cells. Materials Research Society Symposia Proceedings, 2008, 1101, 1.	0.1	3
130	Direct solar to hydrogen conversion enabled by silicon photocathodes with carrier selective passivated contacts. Sustainable Energy and Fuels, 2022, 6, 349-360.	2.5	3
131	Plasmons for enhancing solar cells. , 2010, , .		2
132	Three-dimensional nanotub submicrometer diffraction gratings for solar cells. Applied Optics, 2014, 53, 6840.	0.9	2
133	Impact of Light on the Thermal Stability of Perovskite Solar Cells and Development of Stable Semi-transparent Cells. , 2018, , .		2
134	Holeâ€Storage Enhanced aâ€Si Photocathodes for Efficient Hydrogen Production. Angewandte Chemie, 2021, 133, 12073-12079.	1.6	2
135	Surface morphology of silicon layers grown on patterned silicon substrates by liquid-phase epitaxy. Journal of Crystal Growth, 1999, 204, 453-461.	0.7	1
136	Silicon photoluminescence external quantum efficiency determined by combined thermal/photoluminescence measurements. Semiconductor Science and Technology, 2004, 19, 1411-1415.	1.0	1
137	Enhancement of scattering and light-extraction by metal particles on silicon waveguides. , 2005, 6037, 57.		1
138	Optical and electrical modelling for high efficiency perovskite/silicon tandem solar cells. , 2016, , .		1
139	Notice of Removal High efficiency perovskite/silicon tandem cells with low parasitic absorption. , 2017, , .		1
140	High efficiency perovskite/silicon tandems for electricity and hydrogen. , 2021, , .		1
141	Contactless and Spatially Resolved Determination of Currentâˆ'Voltage Curves in Perovskite Solar Cells via Photoluminescence. Solar Rrl, 2021, 5, 2170083.	3.1	1
142	Third generation photovoltaics. , 0, , .		0
143	Effects of dielectric overcoating on the absorption enhancement of SOI LEDs with metal island films. , 2005, , .		0
144	Photovoltaic effect in Si/SiO<inf>x</inf> heterostructures. , 2008, , .		0

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145	Plasmonic Circuits: Manipulating Light on the Nanoscale. , 2011, , 17-56.		0
146	Plasmonic near-field enhancement for planar ultra-thin absorber solar cells. , 2012, , .		0
147	Wavelength selective light trapping for tandem solar cells on silicon. , 2014, , .		0
148	Modelling of slow transient processes in organo-metal halide perovskites. , 2016, , .		0
149	Extracting optical bandgaps from luminescence images of perovskite solar cells. , 2019, , .		0
150	Tandem Solar Cells: Spatially and Spectrally Resolved Absorptivity: New Approach for Degradation Studies in Perovskite and Perovskite/Silicon Tandem Solar Cells (Adv. Energy Mater. 4/2020). Advanced Energy Materials, 2020, 10, 2070016.	10.2	0
151	Photovoltaic Plasmonics. , 2008, , .		0
152	Localized surface plasmons for high efficiency solar cells. , 2010, , .		0
153	Optical Properties of Nanostructures. , 2010, , 49-71.		0
154	Thin-film Inorganic Top Cells in Tandem with c-Si: Targeting 30% Efficiency. , 2013, , .		0
155	High-resolution photocurrent imaging of light trapping by plasmonic nanoparticles on thin film Si solar cells. , 2014, , .		0
156	Metal Nanoparticle Arrays as Wavelength-Selective Rear Reflectors. , 2015, , .		0
157	Total absorption in Structured Ultrathin Semiconductor Layers. , 2016, , .		0
158	Understanding the impact of carrier mobility and mobile ions on perovskite cell performance. , 2018, , .		0