List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1480085/publications.pdf Version: 2024-02-01



Μλρκο Τορις

#	Article	IF	CITATIONS
1	Energy yield of perovskite solar cells: Influence of location, orientation, and external light management. Solar Energy Materials and Solar Cells, 2022, 234, 111421.	3.0	9
2	Monolithically integrated optical interference and absorption filters on thin film amorphous silicon photosensors for biological detection. Sensors and Actuators B: Chemical, 2022, 356, 131330.	4.0	7
3	Low-cost strategy for processing hierarchical surface textures on PET foils with modified wetting behavior and increased outcoupling efficiency for OLEDs. , 2022, , .		0
4	Perovskite/CIGS Tandem Solar Cells: From Certified 24.2% toward 30% and Beyond. ACS Energy Letters, 2022, 7, 1298-1307.	8.8	128
5	Performance of PV systems in Slovenia with the help of typical daily profiles and automatic detection of orientation and inclination angles. Solar Energy, 2022, 236, 870-878.	2.9	2
6	Highâ€Throughput Aging System for Parallel Maximum Power Point Tracking of Perovskite Solar Cells. Energy Technology, 2022, 10, .	1.8	11
7	Are Perovskite Solar Cell Potentialâ€Induced Degradation Proof?. Solar Rrl, 2022, 6, .	3.1	14
8	Optical Simulation Study of Perovskite/CIGS Tandem Solar Cells With Reduced Graphene Oxide Layers. Frontiers in Photonics, 2022, 3, .	1.1	0
9	Spatially resolved electrical modelling of cracks and other inhomogeneities in crystalline silicon solar cells. Progress in Photovoltaics: Research and Applications, 2021, 29, 124-133.	4.4	12
10	Annual energy losses due to partial shading in PV modules with cut wafer-based Si solar cells. Renewable Energy, 2021, 168, 195-203.	4.3	17
11	Advancing reliability assessments of photovoltaic modules and materials using combinedâ€accelerated stress testing. Progress in Photovoltaics: Research and Applications, 2021, 29, 64-82.	4.4	44
12	Thermal modelling and simulation of crystalline silicon solar cells and modules. , 2021, , .		0
13	Assessment of uncertainties and variations in PV modules degradation rates and lifetime predictions using physical models. Solar Energy, 2021, 218, 354-367.	2.9	34
14	27.9% Efficient Monolithic Perovskite/Silicon Tandem Solar Cells on Industry Compatible Bottom Cells. Solar Rrl, 2021, 5, 2100244.	3.1	59
15	Subcell Operation and Longâ€Term Stability Analysis of Perovskiteâ€Based Tandem Solar Cells Using a Bichromatic Light Emitting Diode Light Source. Solar Rrl, 2021, 5, 2100311.	3.1	9
16	Numerical Analysis of Selective ITO/a-Si:H Contacts in Heterojunction Silicon Solar Cells: Effect of Defect States in Doped a-Si:H Layers on Performance Parameters. IEEE Journal of Photovoltaics, 2021, 11, 634-647.	1.5	4
17	Detailed 3D Optical Modelling of Interdigitated Back Contact Solar Cells. , 2021, , .		1
18	Analysis and optimization of light outcoupling in OLEDs with external hierarchical textures. Optics Express, 2021, 29, 23701.	1.7	3

#	Article	IF	CITATIONS
19	New PV Performance Loss Methodology Applying a Self-Regulated Multistep Algorithm. IEEE Journal of Photovoltaics, 2021, 11, 1087-1096.	1.5	8
20	Typical Daily Profiles, a novel approach for photovoltaics performance assessment: Case study on large-scale systems in Chile. Solar Energy, 2021, 225, 357-374.	2.9	9
21	Modelling-assisted Optimization of Light In-coupling, Out-coupling and Waveguiding in Photonic Devices. , 2021, , .		0
22	Simulation Study of Optical Waveguides with All-dielectric Metamaterial Cladding for Lower Cross-talk in Photonic Integrated Circuits. , 2021, , .		0
23	Light Management Foils with Hierarchical Textures for Light Outcoupling in OLEDs. , 2021, , .		0
24	Increasing Integration Density of Photonic Integrated Circuits by Employing Optimized Dielectric Metamaterial Structures. IEEE Photonics Journal, 2021, 13, 1-9.	1.0	2
25	Electrical modeling of heterojunction silicon solar cells including Indium-Tin-Oxide layers. , 2020, , .		0
26	Monolithic perovskite/silicon tandem solar cell with >29% efficiency by enhanced hole extraction. Science, 2020, 370, 1300-1309.	6.0	1,120
27	Outdoor PV System Monitoring—Input Data Quality, Data Imputation and Filtering Approaches. Energies, 2020, 13, 5099.	1.6	28
28	Development and Analysis of a Modular LED Array Light Source. Photonics, 2020, 7, 92.	0.9	4
29	Advanced PV Performance Modelling Based on Different Levels of Irradiance Data Accuracy. Energies, 2020, 13, 2166.	1.6	17
30	Perovskite Solar Cells go Outdoors: Field Testing and Temperature Effects on Energy Yield. Advanced Energy Materials, 2020, 10, 2000454.	10.2	86
31	Analysis of Surface Passivation and Laser Firing on Thin-Film Silicon Solar Cells Via Light-Beam Induced Current. IEEE Journal of Photovoltaics, 2020, 10, 1246-1253.	1.5	3
32	A Dual-Transport Model of Moisture Diffusion in PV Encapsulants for Finite-Element Simulations. IEEE Journal of Photovoltaics, 2020, 10, 94-102.	1.5	9
33	Visualizing light trapping within textured silicon solar cells. Journal of Applied Physics, 2020, 127, .	1.1	19
34	Application of Dynamic Multi-Step Performance Loss Algorithm. , 2020, , .		2
35	Design of silicon waveguides with all-dielectric metamaterial cladding by employing numerical simulations. , 2020, , .		1
36	From the lab to roof top applications: outdoor performance, temperature behavior and energy yield of perovskite solar cells. , 2020, , .		1

#	Article	IF	CITATIONS
37	Monitoring of lateral moisture ingress across the surface of a solar cell in PV modules. , 2020, , .		1
38	Perovskite/CIGS tandem solar cells - can they catch up with perovskite/c-Si tandems?. , 2020, , .		5
39	The Development of Thermal Coefficients of Photovoltaic Devices. Informacije MIDEM, 2020, , .	0.8	1
40	Nanostructures and design challenges in photovoltaic devices. , 2020, , .		0
41	Wireless System for <i>In Situ</i> Monitoring of Moisture Ingress in PV Modules. IEEE Journal of Photovoltaics, 2019, 9, 1316-1323.	1.5	12
42	Detailed Analysis and Understanding of the Transport Mechanism of Poly-Si-Based Carrier Selective Junctions. IEEE Journal of Photovoltaics, 2019, 9, 1575-1582.	1.5	18
43	Methodology of Köppen-Geiger-Photovoltaic climate classification and implications to worldwide mapping of PV system performance. Solar Energy, 2019, 191, 672-685.	2.9	121
44	Terawatt-scale photovoltaics: Transform global energy. Science, 2019, 364, 836-838.	6.0	320
45	Driving forces and charge-carrier separation in p-n junction solar cells. AIP Advances, 2019, 9, 055026.	0.6	12
46	Light management design in ultra-thin chalcopyrite photovoltaic devices by employing optical modelling. Solar Energy Materials and Solar Cells, 2019, 200, 109933.	3.0	21
47	Compact UV LED Lamp with Low Heat Emissions for Biological Research Applications. Electronics (Switzerland), 2019, 8, 343.	1.8	8
48	Cover Image, Volume 27, Issue 3. Progress in Photovoltaics: Research and Applications, 2019, 27, i-i.	4.4	0
49	SUPER PV project – Developing innovative PV systems for cost reduction and enhanced performance. , 2019, , .		0
50	Analysis of Surface Passivation and Laser Firing via Light-Beam Induced Current Measurements. , 2019, ,		1
51	Performance and Degradation Evaluation of PV Modules on the Substring Level by an In-Situ Electronic Device. , 2019, , .		0
52	Global Climate Data Processing and Mapping of Degradation Mechanisms and Degradation Rates of PV Modules. Energies, 2019, 12, 4749.	1.6	46
53	Comprehensive electrical loss analysis of monolithic interconnected multiâ€segment laser power converters. Progress in Photovoltaics: Research and Applications, 2019, 27, 199-209.	4.4	24
54	The Influence of the EVA Film Aging on the Degradation Behavior of PV Modules Under High Voltage Bias in Wet Conditions Followed by Electroluminescence. IEEE Journal of Photovoltaics, 2019, 9, 259-265.	1.5	7

#	Article	IF	CITATIONS
55	Assessment of Bulk and Interface Quality for Liquid Phase Crystallized Silicon on Glass. IEEE Journal of Photovoltaics, 2019, 9, 364-373.	1.5	8
56	Coupled modelling approach for optimization of bifacial silicon heterojunction solar cells with multi-scale interface textures. Optics Express, 2019, 27, A1554.	1.7	4
57	PV module behaviour on the substring level under real conditions monitored by junction box electronic device Jubomer. IET Renewable Power Generation, 2019, 13, 2802-2806.	1.7	2
58	Multiscale Modeling and Back Contact Design of Bifacial Silicon Heterojunction Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 89-95.	1.5	8
59	On the Influence of the Photo-Induced Leakage Current in Monolithically Interconnected Modules. IEEE Journal of Photovoltaics, 2018, 8, 541-546.	1.5	8
60	Bandgap Fluctuations Observed by EL in Various Cu(In,Ga)(Se,S) ₂ PV Modules. IEEE Journal of Photovoltaics, 2018, 8, 272-277.	1.5	5
61	Microtextured Light-Management Foils and Their Optimization for Planar Organic and Perovskite Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 783-792.	1.5	23
62	Liquid phase crystallized silicon – A holistic absorber quality assessment. Solar Energy Materials and Solar Cells, 2018, 181, 2-8.	3.0	4
63	Coupled Optical Modeling for Optimization of Organic Light-Emitting Diodes with External Outcoupling Structures. ACS Photonics, 2018, 5, 422-430.	3.2	23
64	Training the Next Generation of PV Reliability Experts (Photovoltaic Life Time Forecast and Evaluation) – The Marie Sklodowska-Curie Actions (MSCA) Project SOLAR-TRAIN. , 2018, , .		0
65	Light-Management Mechanisms of Optimized Micro-Textured Foils in Perovskite Solar Cells. , 2018, , .		0
66	Textured interfaces in monolithic perovskite/silicon tandem solar cells: advanced light management for improved efficiency and energy yield. Energy and Environmental Science, 2018, 11, 3511-3523.	15.6	281
67	Influence of doping concentration and contact geometry on the performance of interdigitated back-contact silicon heterojunction of liquid phase crystalline silicon on glass. , 2018, , .		1
68	In-situ Determination of Moisture Diffusion Properties of PV Module Encapsulants Using Digital Humidity Sensors. , 2018, , .		10
69	Review of Statistical and Analytical Degradation Models for Photovoltaic Modules and Systems as Well as Related Improvements. IEEE Journal of Photovoltaics, 2018, 8, 1773-1786.	1.5	77
70	Performance analysis of rigorous coupled-wave analysis and its integration in a coupled modeling approach for optical simulation of complete heterojunction silicon solar cells. Beilstein Journal of Nanotechnology, 2018, 9, 2315-2329.	1.5	10
71	Photovoltaics (PV) System Energy Forecast on the Basis of the Local Weather Forecast: Problems, Uncertainties and Solutions. Energies, 2018, 11, 1143.	1.6	22
72	Electroluminescence Imaging of PV Devices: Advanced Vignetting Calibration. IEEE Journal of Photovoltaics, 2018, 8, 1297-1304.	1.5	26

#	Article	IF	CITATIONS
73	Power loss mechanisms in small area monolithic-interconnected photovoltaic modules. Opto-electronics Review, 2018, 26, 158-164.	2.4	5
74	Improved light outcoupuling of organic light-emitting diodes by combined optimization of thin film layers and external textures. , 2018, , .		1
75	Examination of Photovoltaic Silicon Module Degradation Under High-Voltage Bias and Damp Heat by Electroluminescence. Journal of Solar Energy Engineering, Transactions of the ASME, 2017, 139, .	1.1	6
76	Efficient Light Management by Textured Nanoimprinted Layers for Perovskite Solar Cells. ACS Photonics, 2017, 4, 1232-1239.	3.2	103
77	Silicon Solar Cells on Glass with Power Conversion Efficiency above 13% at Thickness below 15 Micrometer. Scientific Reports, 2017, 7, 873.	1.6	32
78	Diffuse and direct light solar spectra modeling in PV module performance rating. Solar Energy, 2017, 150, 310-316.	2.9	17
79	Bandgap imaging in Cu(In,Ga)Se ₂ photovoltaic modules by electroluminescence. Progress in Photovoltaics: Research and Applications, 2017, 25, 184-191.	4.4	3
80	Detailed optical modelling and light-management of thin-film organic solar cells with consideration of small-area effects. Optics Express, 2017, 25, A176.	1.7	24
81	Key parameters of efficient phosphor-filled luminescent down-shifting layers for photovoltaics. Journal of Optics (United Kingdom), 2017, 19, 095901.	1.0	2
82	Analysis of Local Minority Carrier Diffusion Lengths in Liquid-Phase Crystallized Silicon Thin-Film Solar Cells. IEEE Journal of Photovoltaics, 2017, 7, 32-36.	1.5	7
83	Optical confinement in chalcopyrite based solar cells. Thin Solid Films, 2017, 633, 193-201.	0.8	17
84	Optical and electrical properties of gallium doped indium tin oxide optimized for low deposition temperature applications. Thin Solid Films, 2017, 621, 52-57.	0.8	4
85	Photovoltaics as macroelectronics applying nanostructures as nanoelectronics. , 2017, , .		0
86	Determination of the complex refractive index of powder phosphors. Optical Materials Express, 2017, 7, 2943.	1.6	8
87	Maximum Power Point Tracking of PV Module Based on New Explicit I-V Relation. , 2017, , .		1
88	Advanced Optical Modelling of Micro-Textured Solution-Processed Solar Cells with Consideration of Small-Area Effects. , 2017, , .		0
89	Benefits of a thermal drift during atomic layer deposition of Al2O3 for C-Si passivation. , 2017, , .		3
90	Comparison of measured performance and theoretical limits of gaas laser power converters under monochromatic light. Facta Universitatis - Series Electronics and Energetics, 2017, 30, 93-106.	0.6	1

#	Article	IF	CITATIONS
91	Effective load carrying capability of solar photovoltaic power plants—case study for Slovenia. , 2017, ,		2
92	Back- and Front-side Texturing for Light-management in Perovskite / Silicon-heterojunction Tandem Solar Cells. Energy Procedia, 2016, 102, 43-48.	1.8	14
93	Apparent performance ratio of photovoltaic systems—A methodology for evaluation of photovoltaic systems across a region. Journal of Renewable and Sustainable Energy, 2016, 8, .	0.8	3
94	Revisiting light trapping in silicon solar cells with random pyramids. , 2016, , .		10
95	Analysis of local minority carrier diffusion lengths in liquid phase crystallized silicon thin-film solar cells. , 2016, , .		1
96	- One-Dimensional Semi-Coherent Optical Modeling. , 2016, , 50-79.		0
97	- Two- and Three-Dimensional Optical Modeling. , 2016, , 152-183.		0
98	- One-Dimensional Optical Simulations. , 2016, , 184-245.		0
99	Design challenges for light harvesting in photovoltaic devices. Proceedings of SPIE, 2016, , .	0.8	1
100	Design of periodic nano- and macro-scale textures for high-performance thin-film multi-junction solar cells. Journal of Optics (United Kingdom), 2016, 18, 064005.	1.0	5
101	<italic>In-Situ</italic> Monitoring of Moisture Ingress in PV Modules Using Digital Humidity Sensors. IEEE Journal of Photovoltaics, 2016, 6, 1152-1159.	1.5	35
102	Maximum-power-point tracking during outdoor ageing of solar cells. Solar Energy, 2016, 135, 471-478.	2.9	1
103	Camera-based ARS system for complete light scattering determination/characterization. Measurement Science and Technology, 2016, 27, 035202.	1.4	2
104	Analysis of RCWA Validity for Optical Simulations of Si Solar Cells with Various Textures. , 2016, , .		2
105	Nanostructures for light trapping in photovoltaic devices $\hat{a} \in \hat{~}$ approaches and challenges. , 2015, , .		0
106	Three-dimensional amorphous silicon solar cells on periodically ordered ZnO nanocolumns. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1823-1829.	0.8	11
107	Rigorous modelling of light scattering in solar cells based on finite element method and Huygens' expansion. Optics Express, 2015, 23, A1549	1.7	10
108	Mathematical Model of a Monocopter Based on Unsteady Blade-Element Momentum Theory. Journal of Aircraft, 2015, 52, 1905-1913.	1.7	14

#	Article	IF	CITATIONS
109	Relation Between Sputtering Parameters and Optical and Electrical Properties of Ga Doped ITO Transparent Conductive Oxide. Energy Procedia, 2015, 84, 183-189.	1.8	7
110	Improved properties of phosphor-filled luminescent down-shifting layers: reduced scattering, optical model, and optimization for PV application. Proceedings of SPIE, 2015, , .	0.8	1
111	Optical Model for Simulation and Optimization of Luminescent down-shifting Layers in Photovoltaics. Energy Procedia, 2015, 84, 3-7.	1.8	4
112	Approaches and challenges in optical modelling and simulation of thin-film solar cells. Solar Energy Materials and Solar Cells, 2015, 135, 57-66.	3.0	29
113	Spatially Resolved Characterization in Thin-Film Photovoltaics. Springer Briefs in Electrical and Computer Engineering, 2015, , .	0.3	10
114	Dye-Sensitised Solar Cells. Springer Briefs in Electrical and Computer Engineering, 2015, , 67-79.	0.3	0
115	A new PV module performance model based on separation of diffuse and direct light. Solar Energy, 2015, 113, 212-220.	2.9	21
116	Feasibility Study of Attitude Determination for All-Rotating Unmanned Aerial Vehicles in Steady Flight. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 341-360.	2.0	7
117	CH_3NH_3PbI_3 perovskite / silicon tandem solar cells: characterization based optical simulations. Optics Express, 2015, 23, A263.	1.7	258
118	Highly transmissive luminescent down-shifting layers filled with phosphor particles for photovoltaics. Optical Materials Express, 2015, 5, 1296.	1.6	20
119	Optical model for simulation and optimization of luminescent down-shifting layers filled with phosphor particles for photovoltaics. Optics Express, 2015, 23, A882.	1.7	18
120	Highly transmissive luminescent down-shifting layers filled with phosphor particles for photovoltaics: publisher's note. Optical Materials Express, 2015, 5, 1806.	1.6	1
121	Status and Potential of CdTe Solar-Cell Efficiency. IEEE Journal of Photovoltaics, 2015, 5, 1217-1221.	1.5	129
122	Performance Limits and Status of Single-Junction Solar Cells With Emphasis on CIGS. IEEE Journal of Photovoltaics, 2015, 5, 360-365.	1.5	31
123	Complex Refractive Index Spectra of CH ₃ NH ₃ PbI ₃ Perovskite Thin Films Determined by Spectroscopic Ellipsometry and Spectrophotometry. Journal of Physical Chemistry Letters, 2015, 6, 66-71.	2.1	491
124	CdTe Solar Cells. Springer Briefs in Electrical and Computer Engineering, 2015, , 53-65.	0.3	0
125	Module Level Electroluminescence Imaging. Springer Briefs in Electrical and Computer Engineering, 2015, , 81-95.	0.3	0
126	Spatially Resolved Characterisation Techniques. Springer Briefs in Electrical and Computer Engineering, 2015, , 19-39.	0.3	1

#	Article	IF	CITATIONS
127	Camera-based angular resolved spectroscopy system for spatial measurements of scattered light. Applied Optics, 2014, 53, 4795.	0.9	8
128	Effect of Substrate Morphology Slope Distributions on Light Scattering, nc-Si:H Film Growth, and Solar Cell Performance. ACS Applied Materials & Interfaces, 2014, 6, 22061-22068.	4.0	17
129	EL inspection of thin-film PV modules in between field operation. , 2014, , .		2
130	Solution Processed Silver Nanoparticles in Dye-Sensitized Solar Cells. Journal of Nanomaterials, 2014, 2014, 1-11.	1.5	16
131	Modelling of diffraction grating based optical filters for fluorescence detection of biomolecules. Biomedical Optics Express, 2014, 5, 2285.	1.5	2
132	Amorphous silicon oxide window layers for high-efficiency silicon heterojunction solar cells. Journal of Applied Physics, 2014, 115, .	1.1	113
133	Optimization of interdigitated back contact geometry in silicon heterojunction solar cell. , 2014, , .		2
134	Prediction of defective regions in optimisation of surface textures in thin-film silicon solar cells using combined model of layer growth. Thin Solid Films, 2014, 573, 176-184.	0.8	23
135	Prediction and prevention of defective regions within thin-film silicon solar cells. , 2014, , .		0
136	Micro-scale textures for enhanced performance of organic solar cells. , 2014, , .		1
137	Light propagation in phosphor-filled matrices for photovoltaic PL down-shifting. , 2014, , .		0
138	Development of a Stochastic Hourly Solar Irradiation Model. International Journal of Photoenergy, 2014, 2014, 1-7.	1.4	8
139	Optimisation of Periodic Surface Textures in Thin-film Silicon Solar Cells Using Rigorous Optical Modelling by Considering Realistic Layer Growth. Energy Procedia, 2014, 44, 138-144.	1.8	4
140	Inkjet printing of sol–gel derived tungsten oxide inks. Solar Energy Materials and Solar Cells, 2014, 125, 87-95.	3.0	37
141	Parasitic absorption in the rear reflector of a silicon solar cell: Simulation and measurement of the sub-bandgap reflectance for common dielectric/metal reflectors. Solar Energy Materials and Solar Cells, 2014, 120, 426-430.	3.0	75
142	Outdoor ageing of the dye-sensitized solar cell under different operation regimes. Solar Energy Materials and Solar Cells, 2014, 120, 491-499.	3.0	35
143	Amorphous silicon/crystalline silicon heterojunction solar cells — Analysis of lateral conduction through the inversion layer. , 2014, , .		0
144	Recovery of dye-sensitized solar cell's performance by heat treatment. Physical Chemistry Chemical Physics, 2014, 16, 12940-12948.	1.3	9

#	Article	IF	CITATIONS
145	Optimization of Microtextured Light-Management Films for Enhanced Light Trapping in Organic Solar Cells Under Perpendicular and Oblique Illumination Conditions. IEEE Journal of Photovoltaics, 2014, 4, 639-646.	1.5	24
146	Micromorph silicon solar cell optical performance: Influence of intermediate reflector and front electrode surface texture. Solar Energy Materials and Solar Cells, 2014, 130, 401-409.	3.0	18
147	Ta2O5-based high-K dielectric thin films from solution processed at low temperatures. Materials Research Bulletin, 2014, 50, 323-328.	2.7	35
148	Measurement of electric field enhanced optical absorption in hydrogenated amorphous silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 200-205.	0.8	1
149	Efficiency limits in photovoltaics: Case of single junction solar cells. Facta Universitatis - Series Electronics and Energetics, 2014, 27, 631-638.	0.6	5
150	Electroluminescence as a spatial characterisation technique for dyeâ€sensitised solar cells. Progress in Photovoltaics: Research and Applications, 2013, 21, 1176-1180.	4.4	10
151	Sol-gel based TiO2 paste applied in screen-printed dye-sensitized solar cells and modules. Journal of Industrial and Engineering Chemistry, 2013, 19, 1464-1469.	2.9	36
152	Ageing of DSSC studied by electroluminescence and transmission imaging. Solar Energy Materials and Solar Cells, 2013, 117, 67-72.	3.0	33
153	Evaluation of the recombination processes in DSSC by measuring the open circuit voltage over a wide illumination intensity range. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1750-1757.	0.8	6
154	The Two Approaches of Surface-Texture Optimization in Thin-Film Silicon Solar Cells. IEEE Journal of Photovoltaics, 2013, 3, 1156-1162.	1.5	6
155	Low-temperature versus oxygen plasma treatment of water-based TiO2 paste for dye-sensitized solar cells. Journal of Sol-Gel Science and Technology, 2013, 68, 67-74.	1.1	4
156	Electroabsorption Modeling in Hydrogenated Amorphous Silicon. IEEE Transactions on Electron Devices, 2013, 60, 3973-3978.	1.6	0
157	Stability of plasmonic metal nanoparticles integrated in the back contact of ultra-thin Cu(In,Ga)S2 solar cells. Thin Solid Films, 2013, 527, 308-313.	0.8	20
158	Optimisation of the l–V measurement scan time through dynamic modelling of solar cells. IET Renewable Power Generation, 2013, 7, 63-70.	1.7	13
159	Infrared light management in high-efficiency silicon heterojunction and rear-passivated solar cells. Journal of Applied Physics, 2013, 113, .	1.1	270
160	Combined model of non-conformal layer growth for accurate optical simulation of thin-film silicon solar cells. Solar Energy Materials and Solar Cells, 2013, 119, 59-66.	3.0	48
161	Advanced approaches in optical simulations of thin-film solar cells. , 2013, , .		0
162	Analysis of lateral transport through the inversion layer in amorphous silicon/crystalline silicon heterojunction solar cells. Journal of Applied Physics, 2013, 114, 074504.	1.1	54

#	Article	IF	CITATIONS
163	Intercomparison of Temperature Sensors for Outdoor Monitoring of Photovoltaic Modules. Journal of Solar Energy Engineering, Transactions of the ASME, 2013, 135, .	1.1	26
164	Design for high out-coupling efficiency of white OLED using CROWM – a combined geometric/wave optics model. , 2013, , .		0
165	Thin film solar cell performance limits and potential. , 2013, , .		1
166	Analysis of electroluminescence images in small-area circular CdTe solar cells. Journal of Applied Physics, 2013, 114, .	1.1	16
167	Optical Properties and Modeling Approaches. , 2013, , 3-34.		2
168	One-Dimensional Semi-Coherent Optical Modeling. , 2013, , 35-64.		0
169	TWO APPROACHES FOR INCOHERENT PROPAGATION OF LIGHT IN RIGOROUS NUMERICAL SIMULATIONS. Progress in Electromagnetics Research, 2013, 137, 187-202.	1.6	35
170	Optimization of advanced surface-textures for thin-film silicon solar cells. , 2013, , .		1
171	Optimal <i>I-V</i> Curve Scan Time of Solar Cells and Modules in Light of Irradiance Level. International Journal of Photoenergy, 2012, 2012, 1-11.	1.4	49
172	Plasmonic effect in dye-sensitized solar cells. , 2012, , .		1
173	Advanced Light Management Approaches for Thin-Film Silicon Solar Cells. Energy Procedia, 2012, 15, 189-199.	1.8	40
174	Dye-Sensitized Solar Cells. , 2012, , 147-175.		2
175	Spatial characterization techniques for dye-sensitized solar cells. , 2012, , .		1
176	Light Management in Thin-Film Solar Cell. Springer Series in Optical Sciences, 2012, , 95-129.	0.5	3
177	Analysis of electron recombination in dye-sensitized solar cell. Current Applied Physics, 2012, 12, 238-246.	1.1	35
178	Orientation and Tilt Dependence of a Fixed PV Array Energy Yield Based on Measurements of Solar Energy and Ground Albedo – a Case Study of Slovenia. , 2011, , .		8
179	A simulation study of the effect of the diverse valence-band offset and the electronic activity at the grain boundaries on the performance of polycrystalline Cu(In,Ga)Se2 solar cells. Thin Solid Films, 2011, 519, 7497-7502.	0.8	11
180	Comparison of direct maximum power point tracking algorithms using EN 50530 dynamic test procedure. IET Renewable Power Generation, 2011, 5, 281.	1.7	56

#	Article	IF	CITATIONS
181	Pechini based titanium sol as a matrix in TiO2 pastes for dye-sensitized solar cell application. Journal of Sol-Gel Science and Technology, 2011, 59, 245-251.	1.1	11
182	Self-shading losses of fixed free-standing PV arrays. Renewable Energy, 2011, 36, 3211-3216.	4.3	55
183	Outdoor testing of PV module temperature and performance under different mounting and operational conditions. Solar Energy Materials and Solar Cells, 2011, 95, 373-376.	3.0	132
184	Modeling plasmonic scattering combined with thin-film optics. Nanotechnology, 2011, 22, 025204.	1.3	60
185	Experimental verification of optically optimized CuGaSe ₂ top cell for improving chalcopyrite tandems. EPJ Photovoltaics, 2010, 1, 10601.	0.8	10
186	Characterisation of hydrogenated silicon–carbon alloy filters with different carbon composition for on-chip fluorescence detection of biomolecules. Sensors and Actuators A: Physical, 2010, 163, 96-100.	2.0	20
187	Sponge-like TiO2 layers for dye-sensitized solar cells. Journal of Sol-Gel Science and Technology, 2010, 53, 647-654.	1.1	35
188	Potential of thin-film silicon solar cells by using high haze TCO superstrates. Thin Solid Films, 2010, 518, 3054-3058.	0.8	72
189	Mapping the performance of PV modules, effects of module type and data averaging. Solar Energy, 2010, 84, 324-338.	2.9	247
190	Optical and electrical modelling and characterization of dye-sensitized solar cells. Current Applied Physics, 2010, 10, S425-S430.	1.1	45
191	Preface/Editorial to the Proceedings of Inorganic and Nanostructured Photovoltaics (E-MRS 2009) Tj ETQq1 1 0	.784314 rş 1.8	gBT_/Overloc
192	Potential of advanced optical concepts in chalcopyrite-based solar cells. Energy Procedia, 2010, 2, 143-150.	1.8	3
193	Optimal design of periodic surface texture for thinâ€film aâ€6i:H solar cells. Progress in Photovoltaics: Research and Applications, 2010, 18, 160-167.	4.4	43
194	Analysis of thin-film silicon solar cells with white paint back reflectors. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, NA-NA.	0.8	18
195	Spectral selectivity constraints in fluo―rescence detection of biomolecules using amorphous silicon based detectors. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1156-1159.	0.8	2
196	Optical properties of intrinsic hydrogenated amorphous silicon at high electric field. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, NA-NA.	0.8	1
197	Modeling and optimization of white paint back reflectors for thin-film silicon solar cells. Journal of Applied Physics, 2010, 108, 103115.	1.1	31
198	One Step Preparation of TiO2 Layer for High Efficiency Dye-sensitized Solar Cell. Acta Chimica Slovenica, 2010, 57, 405-9.	0.2	11

#	Article	IF	CITATIONS
199	Active Instrument Controller With Script Interpreter. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3527-3533.	2.4	0
200	Unique TiO2 paste for high efficiency dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 379-381.	3.0	114
201	Analysis and optimisation of microcrystalline silicon solar cells with periodic sinusoidal textured interfaces by two-dimensional optical simulations. Journal of Applied Physics, 2009, 105, 083107.	1.1	52
202	Modulated photonic-crystal structures as broadband back reflectors in thin-film solar cells. Applied Physics Letters, 2009, 94, 153501.	1.5	46
203	Optical modeling of chalcopyrite-based tandems considering realistic layer properties. Applied Physics Letters, 2009, 94, 053507.	1.5	13
204	Impact of local non-uniformities on thin-film PV. , 2009, , .		2
205	Development of TiO2 pastes modified with Pechini sol–gel method for high efficiency dye-sensitized solar cell. Journal of Sol-Gel Science and Technology, 2008, 48, 156-162.	1.1	38
206	Simulation of losses in thinâ€film silicon modules for different configurations and front contacts. Progress in Photovoltaics: Research and Applications, 2008, 16, 479-488.	4.4	28
207	Numerical and experimental indication of thermally activated tunneling transport in CIS monograin layer solar cells. Solid-State Electronics, 2008, 52, 78-85.	0.8	6
208	Ionic liquid-based electrolyte solidified with SiO2 nanoparticles for dye-sensitized solar cells. Thin Solid Films, 2008, 516, 4645-4650.	0.8	44
209	Performance of dye-sensitized solar cells based on Ionic liquids: Effect of temperature and iodine concentration. Thin Solid Films, 2008, 516, 7155-7159.	0.8	54
210	Potential of diffraction gratings for implementation as a metal back reflector in thin-film silicon solar cells. Thin Solid Films, 2008, 516, 6963-6967.	0.8	17
211	Simulation study of the effects of grain shape and size on the performance of Cu(In,Ga)Se2 solar cells. Journal of Applied Physics, 2008, 104, .	1.1	9
212	Periodic Structures for Improved Light Management in Thin-film Silicon Solar Cells. Materials Research Society Symposia Proceedings, 2008, 1101, 1.	0.1	3
213	The effect of temperature on the performance of dye-sensitized solar cells based on a propyl-methyl-imidazolium iodide electrolyte. Solar Energy Materials and Solar Cells, 2007, 91, 821-828.	3.0	137
214	The potential of textured front ZnO and flat TCO/metal back contact to improve optical absorption in thin Cu(In,Ga)Se2 solar cells. Thin Solid Films, 2007, 515, 5968-5972.	0.8	49
215	Calibration and data fusion solution for the miniature attitude and heading reference system. Sensors and Actuators A: Physical, 2007, 138, 411-420.	2.0	196
216	Effective efficiency of PV modules under field conditions. Progress in Photovoltaics: Research and Applications, 2007, 15, 19-26.	4.4	40

#	Article	IF	CITATIONS
217	Optical and electrical modeling of Cu(In,Ga)Se2 solar cells. Optical and Quantum Electronics, 2007, 38, 1115-1123.	1.5	26
218	Performance Assessment of PV Modules - Relationship Between STC Rating and Field Performance. , 2006, , .		4
219	Optical modeling and simulation of thin-film Cu(In,Ga)Se2 solar cells. , 2006, , .		5
220	Noise characterization of a-Si:H pin diodes. Journal of Non-Crystalline Solids, 2006, 352, 1829-1831.	1.5	1
221	Advanced optical design of tandem micromorph silicon solar cells. Journal of Non-Crystalline Solids, 2006, 352, 1892-1895.	1.5	25
222	Potential of optical design in tandem micromorph silicon solar cells. , 2006, 6197, 10.		1
223	The effects of enhanced light trapping in tandem micromorph silicon solar cells. Solar Energy Materials and Solar Cells, 2006, 90, 3339-3344.	3.0	27
224	Band-gap engineering in CIGS solar cells using Nelder–Mead simplex optimization algorithm. Thin Solid Films, 2006, 511-512, 60-65.	0.8	13
225	Optical and Electrical Analysis of Tandem Micromorph Silicon Solar Cell to Achieve Record-High Efficiency. , 2006, , .		5
226	Optical simulation of the role of reflecting interlayers in tandem micromorph silicon solar cells. Solar Energy Materials and Solar Cells, 2005, 86, 537-550.	3.0	27
227	Preparation and Characterisation of Nano-Structured WO3-TiO2 Layers for Photoelectrochromic Devices. Journal of Sol-Gel Science and Technology, 2005, 36, 45-52.	1.1	41
228	A detailed study of monolithic contacts and electrical losses in a large-area thin-film module. Progress in Photovoltaics: Research and Applications, 2005, 13, 297-310.	4.4	41
229	Transport in tunneling recombination junctions: A combined computer simulation study. Journal of Applied Physics, 2004, 96, 7289-7299.	1.1	20
230	Optical modelling of thin-film silicon solar cells deposited on textured substrates. Thin Solid Films, 2004, 451-452, 298-302.	0.8	32
231	Performance of a solid-state photoelectrochromic device. Solar Energy Materials and Solar Cells, 2004, 84, 369-380.	3.0	51
232	Study of enhanced light scattering in microcrystalline silicon solar cells. Journal of Non-Crystalline Solids, 2004, 338-340, 673-676.	1,5	8
233	Dynamic properties of ultraviolet sensitive detectors. Journal of Non-Crystalline Solids, 2004, 338-340, 772-775.	1.5	3
234	Electron velocity in superlattices. European Physical Journal B, 2003, 35, 443-447.	0.6	4

#	Article	IF	CITATIONS
235	Effect of surface roughness of ZnO:Al films on light scattering in hydrogenated amorphous silicon solar cells. Thin Solid Films, 2003, 426, 296-304.	0.8	215
236	Analysis of light scattering in amorphous Si:H solar cells by a one-dimensional semi-coherent optical model. Progress in Photovoltaics: Research and Applications, 2003, 11, 15-26.	4.4	119
237	Potential of light trapping in microcrystalline silicon solar cells with textured substrates. Progress in Photovoltaics: Research and Applications, 2003, 11, 429-436.	4.4	54
238	Optical modeling ofa-Si:H solar cells deposited on textured glass/SnO2 substrates. Journal of Applied Physics, 2002, 92, 749-755.	1.1	106
239	Numerical and experimental study of a-Si:H based ultraviolet sensitive detectors. Journal of Non-Crystalline Solids, 2002, 299-302, 1229-1233.	1.5	1
240	Examination of transient behaviour and design of dynamic SPICE model of a-Si:H PIN structure. Journal of Non-Crystalline Solids, 2002, 299-302, 1295-1299.	1.5	2
241	Analysis of light scattering in a-Si:H-based solar cells with rough interfaces. Solar Energy Materials and Solar Cells, 2002, 74, 401-406.	3.0	7
242	Three-state regulator for electrochromic windows. Solar Energy Materials and Solar Cells, 2002, 71, 387-395.	3.0	7
243	Modeling charge-carrier transport and generation–recombination mechanisms in p+n+ a-Si tunnel junctions. Solar Energy Materials and Solar Cells, 2001, 66, 147-153.	3.0	1
244	Numerical modelling of trap-assisted tunnelling mechanism in a-Si:H and μc-Si n/p structures and tandem solar cells. Solar Energy Materials and Solar Cells, 2001, 66, 361-367.	3.0	9
245	Thin-Film UV Detectors Based on Hydrogenated Amorphous Silicon and Its Alloys. Physica Status Solidi A, 2001, 185, 121-127.	1.7	13
246	Adjustable ultraviolet-sensitive detectors based on amorphous silicon. Applied Physics Letters, 2001, 78, 2387-2389.	1.5	20
247	Colour Characterisation of a-Si:H-Based Three-Terminal Three-Channel Detector. Materials Research Society Symposia Proceedings, 2000, 609, 1251.	0.1	2
248	Transient properties of PINIP structures in three-terminal a-Si:H based three-color detectors. Journal of Non-Crystalline Solids, 2000, 266-269, 1178-1182.	1.5	5
249	Optical modelling of a-Si:H-based three-terminal three-colour detectors. Journal of Non-Crystalline Solids, 2000, 266-269, 1183-1187.	1.5	1
250	Tunnelling-assisted generation-recombination in pn a-Si junctions. Solid-State Electronics, 1999, 43, 1673-1676.	0.8	7
251	Optimization of a-Si:H-based three-terminal three-color detectors. IEEE Transactions on Electron Devices, 1999, 46, 1839-1845.	1.6	23
252	Charge carrier transport in n–i–p and p–i–n a-Si/c-Si heterojunction solar cells. Solar Energy Materials and Solar Cells, 1998, 53, 15-21.	3.0	5

#	Article	IF	CITATIONS
253	Stacked a-Si:H-based three-colour detectors. Journal of Non-Crystalline Solids, 1998, 227-230, 1326-1329.	1.5	11
254	Numerical analysis of a thin microcrystalline p layer in p-i-n a-Si:H solar cells. Journal of Applied Physics, 1998, 83, 4518-4521.	1.1	2
255	Investigation of a-Si:H PH(1)N Color Detector Operation. Materials Research Society Symposia Proceedings, 1998, 507, 389.	0.1	1
256	Analysis of front contact heterojunction in a-Si:H one-dimensional position sensitive detectors. Review of Scientific Instruments, 1997, 68, 1377-1381.	0.6	2
257	Hump-shaped internal collection efficiency of degraded a-Si:Hp-i-nsolar cells. Journal of Applied Physics, 1997, 82, 878-882.	1.1	1
258	Examination of blocking current-voltage behaviour through defect chalcopyrite layer in ZnO/CdS/Cu(In,Ga)Se2/Mo solar cell. Solar Energy Materials and Solar Cells, 1997, 49, 311-317.	3.0	53
259	Analysis of TCO/p(a-Si:C:H) heterojunction and its influence on p-i-n a-Si:H solar cell performance. Journal of Non-Crystalline Solids, 1996, 194, 312-318.	1.5	48
260	Stacked a-SiC:H/a-Si:H heterostructures for bias-controlled three-colour detectors. Journal of Non-Crystalline Solids, 1996, 198-200, 1180-1184.	1.5	10
261	Investigation of a-Si:H p-i-n Solar Cell Degradation. Materials Research Society Symposia Proceedings, 1996, 420, 221.	0.1	Ο
262	Examination of 1-D Position Sensitive Detector Performance Through Analysis of Front Contact Heterojunction. Materials Research Society Symposia Proceedings, 1996, 420, 171.	0.1	0
263	Analytical model of a-Si/c-Si Hit Solar Cell. Materials Research Society Symposia Proceedings, 1996, 420, 227.	0.1	3
264	Temperature dependence of p-i-n HIT solar cell characteristics. , 1996, , .		0
265	Smallâ€signal capacitance and conductance of biasedaâ€Si structures. Journal of Applied Physics, 1996, 80, 3854-3859.	1.1	6
266	Bandâ€gap engineering in CdS/Cu(In,Ga)Se2 solar cells. Journal of Applied Physics, 1996, 79, 8537-8540.	1.1	78
267	Effects of /spl mu/c-Si p-layer on p-i-n a-Si:H solar cell performance. , 1996, , .		Ο
268	New Bias-Controlled Three-Color Detectors using Stacked a-SiC:H/a-Si:H Heterostructures. Materials Research Society Symposia Proceedings, 1995, 377, 779.	0.1	8
269	Analysis of silicon solar cells incorporating an extra defect rich layer. Solar Energy Materials and Solar Cells, 1994, 35, 311-317.	3.0	3
270	Amorphous silicon solar cell computer model incorporating the effects of TCO/a-Si:C:H junction. Solar Energy Materials and Solar Cells, 1994, 34, 385-392.	3.0	27

#	Article	IF	CITATIONS
271	Effects of TCO/a-Si:C:H Interface Defect States on p-i-n a-Si:H Solar Cell Performance. Materials Research Society Symposia Proceedings, 1994, 336, 735.	0.1	2
272	Internal Electric Field in Light-Degraded p-i-n a-Si:H Solar Cells. Materials Research Society Symposia Proceedings, 1993, 297, 631.	0.1	3
273	Modelling of trap-assisted carrier transport in a-Si. , 0, , .		0
274	Correlation between TCO/p and p/i heterojunction and effect of n/TCO heterojunction on a-Si:H solar cell performance. , 0, , .		0
275	FM RDS PnP radio receiver. , 0, , .		0
276	Modelling and simulation of optoelectronic devices with ASPIN. , 0, , .		0
277	Analog circuit development system. , 0, , .		3
278	Low-frequency noise measurement of optoelectronic devices. , 0, , .		3
279	Characterization of front-end read-out electronics of thin-film on ASIC. , 0, , .		0
280	Automatic optimization of solar cells with spatially varied absorber's band-gap. , 0, , .		0
281	Subcell analysis in tandem solar cells using bichromatic light source. , 0, , .		0
282	Modelling Supported Design of Light Management Structures in Ultra-Thin Cigs Photovoltaic Devices. Informacije MIDEM, 0, , 183-190.	0.8	2