## **Uwe Rau**

## List of Publications by Citations

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#	Paper	IF	Citations
401	Reciprocity relation between photovoltaic quantum efficiency and electroluminescent emission of solar cells. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	698
400	Electronic properties of Cu(In,Ga)Se2 heterojunction solar cellsElecent achievements, current understanding, and future challenges. <i>Applied Physics A: Materials Science and Processing</i> , <b>1999</b> , 69, 131-	· <del>74</del> 7	457
399	Recombination via tail states in polythiophene:fullerene solar cells. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	312
398	Electronic properties of CuGaSe2-based heterojunction solar cells. Part I. Transport analysis. Journal of Applied Physics, <b>2000</b> , 87, 584-593	2.5	276
397	Open-Circuit Voltages Exceeding 1.26 V in Planar Methylammonium Lead Iodide Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 110-117	20.1	216
396	Electronic properties of ZnO/CdS/Cu(In,Ga)Se2 solar cells (aspects of heterojunction formation. <i>Thin Solid Films</i> , <b>2001</b> , 387, 141-146	2.2	204
395	Interdependence of absorber composition and recombination mechanism in Cu(In,Ga)(Se,S)2 heterojunction solar cells. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 2598-2600	3.4	204
394	Stability Issues of Cu(In,Ga)Se2-Based Solar Cells. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 4849-4862	3.4	204
393	Efficiency limitations of polycrystalline thin film solar cells: case of Cu(In,Ga)Se2. <i>Thin Solid Films</i> , <b>2005</b> , 480-481, 399-409	2.2	191
392	Efficiency Limits of Organic Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17958-17966	3.8	190
391	A new approach to high-efficiency solar cells by band gap grading in Cu(In,Ga)Se2 chalcopyrite semiconductors. <i>Solar Energy Materials and Solar Cells</i> , <b>2001</b> , 67, 145-150	6.4	184
390	Radiative efficiency limits of solar cells with lateral band-gap fluctuations. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 3735-3737	3.4	166
389	Model for electronic transport in Cu(In,Ga)Se2 solar cells <b>1998</b> , 6, 407-421		164
388	Influence of the Ga-content on the bulk defect densities of Cu(In,Ga)Se2. <i>Thin Solid Films</i> , <b>2001</b> , 387, 71-73	2.2	163
387	Oxygenation and air-annealing effects on the electronic properties of Cu(In,Ga)Se2 films and devices. <i>Journal of Applied Physics</i> , <b>1999</b> , 86, 497-505	2.5	162
386	Efficiency Potential of Photovoltaic Materials and Devices Unveiled by Detailed-Balance Analysis. <i>Physical Review Applied</i> , <b>2017</b> , 7,	4.3	154
385	High quality baseline for high efficiency, Cu(In1\(\mathbb{R}\),Gax)Se2 solar cells. <i>Progress in Photovoltaics:</i> Research and Applications, <b>2007</b> , 15, 507-519	6.8	152

# (2006-2000)

384	Influence of sodium on the growth of polycrystalline Cu(In,Ga)Se 2 thin films. <i>Thin Solid Films</i> , <b>2000</b> , 361-362, 161-166	2.2	152
383	Beyond Bulk Lifetimes: Insights into Lead Halide Perovskite Films from Time-Resolved Photoluminescence. <i>Physical Review Applied</i> , <b>2016</b> , 6,	4.3	144
382	Grain boundaries in Cu(In, Ga)(Se, S)2 thin-film solar cells. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 96, 221-234	2.6	142
381	Thermodynamics of light management in photovoltaic devices. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	137
380	Back surface band gap gradings in Cu(In,Ga)Se2 solar cells. <i>Thin Solid Films</i> , <b>2001</b> , 387, 11-13	2.2	123
379	Electronic Transport in Dye-Sensitized Nanoporous TiO2 Solar CellsComparison of Electrolyte and Solid-State Devices. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3556-3564	3.4	121
378	Tunneling-enhanced recombination in Cu(In, Ga)Se2 heterojunction solar cells. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 111-113	3.4	121
377	Optimization and characterization of amorphous/crystalline silicon heterojunction solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2002</b> , 10, 1-13	6.8	110
376	Phase segregation, Cu migration and junction formation in Cu(In,IGa)Se2. <i>EPJ Applied Physics</i> , <b>1999</b> , 6, 131-139	1.1	110
375	Multijunction Si photocathodes with tunable photovoltages from 2.0 V to 2.8 V for light induced water splitting. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 145-154	35.4	107
374	Internal voltages in GaInPtainAste multijunction solar cells determined by electroluminescence measurements. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 123502	3.4	107
373	Electronic loss mechanisms in chalcopyrite based heterojunction solar cells. <i>Thin Solid Films</i> , <b>2000</b> , 361-362, 298-302	2.2	106
372	What Makes a Good Solar Cell?. Advanced Energy Materials, 2018, 8, 1703385	21.8	104
371	Electrical characterization of Cu(In,Ga)Se2 thin-film solar cells and the role of defects for the device performance. <i>Solar Energy Materials and Solar Cells</i> , <b>2001</b> , 67, 137-143	6.4	100
370	Recombination mechanisms in amorphous silicon/crystalline silicon heterojunction solar cells. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 2639-2645	2.5	100
369	Microcrystalline siliconBxygen alloys for application in silicon solar cells and modules. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 119, 134-143	6.4	98
368	Plasmonic reflection grating back contacts for microcrystalline silicon solar cells. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 181105	3.4	97
367	Influence of Cu content on electronic transport and shunting behavior of Cu(In,Ga)Se2 solar cells. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 014906	2.5	96

366	Impact of Photon Recycling on the Open-Circuit Voltage of Metal Halide Perovskite Solar Cells. <i>ACS Energy Letters</i> , <b>2016</b> , 1, 731-739	20.1	96
365	Efficiency limits of photovoltaic fluorescent collectors. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 171101	3.4	94
364	How to Report Record Open-Circuit Voltages in Lead-Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902573	21.8	94
363	Understanding junction breakdown in multicrystalline solar cells. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 071101	2.5	92
362	Composition dependence of defect energies and band alignments in the Cu(In1\( \text{In1}\( \text{Igax}\))(Se1\( \text{IgSy}\))2 alloy system. Journal of Applied Physics, 2002, 91, 1391-1399	2.5	92
361	Cu(In,Ga)Se2 Solar Cells: Device Stability Based on Chemical Flexibility. <i>Advanced Materials</i> , <b>1999</b> , 11, 957-961	24	89
360	Mobility dependent efficiencies of organic bulk heterojunction solar cells: Surface recombination and charge transfer state distribution. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	88
359	Comparative study of electroluminescence from Cu(In,Ga)Se2 and Si solar cells. <i>Thin Solid Films</i> , <b>2007</b> , 515, 6238-6242	2.2	88
358	Electronic properties of CuGaSe2-based heterojunction solar cells. Part II. Defect spectroscopy. Journal of Applied Physics, <b>2000</b> , 87, 594-602	2.5	88
357	Persistent photoconductivity in Cu(In,Ga)Se2 heterojunctions and thin films prepared by sequential deposition. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 223-225	3.4	88
356	Detailed balance and reciprocity in solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 2737-2751	1.6	87
355	Interface redox engineering of Cu(In,Ga)Se 2 Ibased solar cells: oxygen, sodium, and chemical bath effects. <i>Thin Solid Films</i> , <b>2000</b> , 361-362, 353-359	2.2	87
354	Detailed balance theory of excitonic and bulk heterojunction solar cells. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	86
353	Defect generation in Cu(In,Ga)Se2 heterojunction solar cells by high-energy electron and proton irradiation. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 650-658	2.5	85
352	Light absorption and emission in semiconductors with band gap fluctuations A study on Cu(In,Ga)Se2 thin films. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 113519	2.5	84
351	Electroluminescence analysis of high efficiency Cu(In,Ga)Se2 solar cells. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 104510	2.5	79
350	Upscaling of integrated photoelectrochemical water-splitting devices to large areas. <i>Nature Communications</i> , <b>2016</b> , 7, 12681	17.4	76
349	Texture and electronic activity of grain boundaries in Cu(In,Ga)Se2 thin films. <i>Applied Physics A:</i> Materials Science and Processing, <b>2006</b> , 82, 1-7	2.6	76

348	Design of nanostructured plasmonic back contacts for thin-film silicon solar cells. <i>Optics Express</i> , <b>2011</b> , 19 Suppl 6, A1219-30	3.3	74	
347	Characterization and simulation of a-Si:H/ট-Si:H tandem solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 3318-3327	6.4	74	
346	Reciprocity between electroluminescence and quantum efficiency used for the characterization of silicon solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2009</b> , 17, 394-402	6.8	73	
345	Modeling extremely thin absorber solar cells for optimized design. <i>Progress in Photovoltaics:</i> Research and Applications, <b>2004</b> , 12, 573-591	6.8	73	
344	Resistive limitations to spatially inhomogeneous electronic losses in solar cells. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 6010-6012	3.4	72	
343	Quantitative electroluminescence analysis of resistive losses in Cu(In, Ga)Se2 thin-film modules. <i>Solar Energy Materials and Solar Cells</i> , <b>2010</b> , 94, 979-984	6.4	71	
342	Formation of transparent and ohmic ZnO:Al/MoSe2 contacts for bifacial Cu(In,Ga)Se2 solar cells and tandem structures. <i>Thin Solid Films</i> , <b>2005</b> , 480-481, 67-70	2.2	70	
341	Classification of metastabilities in the electrical characteristics of ZnO/CdS/Cu(In,Ga)Se2 solar cells. <i>Thin Solid Films</i> , <b>2001</b> , 387, 147-150	2.2	70	
340	Influence of the selenium flux on the growth of Cu(In,Ga)Se2 thin films. <i>Thin Solid Films</i> , <b>2003</b> , 431-432, 31-36	2.2	67	
339	Impact of Small Phonon Energies on the Charge-Carrier Lifetimes in Metal-Halide Perovskites. Journal of Physical Chemistry Letters, <b>2018</b> , 9, 939-946	6.4	66	
338	Influence of the Built-in Voltage on the Fill Factor of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 13258-13261	3.4	64	
337	Electro-optical modeling of bulk heterojunction solar cells. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 09451	<b>3</b> 2.5	63	
336	Analysis of short circuit current gains by an anti-reflective textured cover on silicon thin film solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2013</b> , 21, 1672-1681	6.8	62	
335	Role of the CdS buffer layer as an active optical element in Cu(In,Ga)Se2 thin-film solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2002</b> , 10, 457-463	6.8	62	
334	Quantitative analysis of the transient photoluminescence of CH3NH3PbI3/PC61BM heterojunctions by numerical simulations. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 1027-1034	5.8	61	
333	Fermi level pinning at CdS/Cu(In,Ga)(Se,S)2 interfaces: effect of chalcopyrite alloy composition. <i>Journal of Physics and Chemistry of Solids</i> , <b>2003</b> , 64, 1591-1595	3.9	61	
332	Open Circuit Voltage Limitations in CuIn1\( \text{IGaxSe2 Thin-Film Solar Cells IDependence on Alloy Composition. } Physica Status Solidi A, <b>2000</b> , 179, R7-R8		61	
331	Impact of Na and S incorporation on the electronic transport mechanisms of Cu(In, Ga)Se2 solar cells. <i>Solid State Communications</i> , <b>1998</b> , 107, 59-63	1.6	60	

330	Numerical simulation of carrier collection and recombination at grain boundaries in Cu(In,Ga)Se2 solar cells. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 094523	2.5	58
329	Low-temperature a-Si:H/ZnO/Al back contacts for high-efficiency silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2006</b> , 90, 1345-1352	6.4	57
328	Device Performance of Emerging Photovoltaic Materials (Version 1). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002774	21.8	56
327	Defects in Cu(In, Ga) Se2 semiconductors and their role in the device performance of thin-film solar cells <b>1997</b> , 5, 121-130		55
326	Compositional trends of defect energies, band alignments, and recombination mechanisms in the Cu(In,Ga)(Se,S)2 alloy system. <i>Thin Solid Films</i> , <b>2003</b> , 431-432, 158-162	2.2	55
325	Numerical simulation of grain boundary effects in Cu(In,Ga)Se2 thin-film solar cells. <i>Thin Solid Films</i> , <b>2005</b> , 480-481, 8-12	2.2	55
324	Modeling of spatially inhomogeneous solar cells by a multi-diode approach. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, 2920-2927	1.6	55
323	Material development for dye solar modules: results from an integrated approach. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2008</b> , 16, 489-501	6.8	54
322	Three-dimensional photonic crystal intermediate reflectors for enhanced light-trapping in tandem solar cells. <i>Advanced Materials</i> , <b>2011</b> , 23, 3896-900	24	53
321	Finite mobility effects on the radiative efficiency limit of pn-junction solar cells. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	53
320	Rugate filter for light-trapping in solar cells. <i>Optics Express</i> , <b>2008</b> , 16, 9332-43	3.3	52
319	Photogeneration and carrier recombination in graded gap Cu(In, Ga)Se/sub 2/solar cells. <i>IEEE Transactions on Electron Devices</i> , <b>2000</b> , 47, 2249-2254	2.9	52
318	Directional selectivity and ultra-light-trapping in solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 2831-2843	1.6	51
317	Cu(In,Ga)Se2 solar cells with a ZnSe buffer layer: interface characterization by quantum efficiency measurements <b>1999</b> , 7, 423-436		51
316	Effects of Thermochemical Treatment on CuSbS2 Photovoltaic Absorber Quality and Solar Cell Reproducibility. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 18377-18385	3.8	51
315	. IEEE Journal of Photovoltaics, <b>2012</b> , 2, 169-172	3.7	49
314	Decreasing Radiative Recombination Coefficients via an Indirect Band Gap in Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1265-1271	6.4	47
313	Theoretical and experimental analysis of photonic structures for fluorescent concentrators with increased efficiencies. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 2811-2821	1.6	45

# (2007-2015)

312	Application and modeling of an integrated amorphous silicon tandem based device for solar water splitting. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 140, 275-280	6.4	44
311	Silicon heterojunction solar cell with amorphous silicon oxide buffer and microcrystalline silicon oxide contact layers. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2012</b> , 6, 193-195	2.5	44
310	Understanding Transient Photoluminescence in Halide Perovskite Layer Stacks and Solar Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003489	21.8	44
309	Extracting Information about the Electronic Quality of Organic Solar-Cell Absorbers from Fill Factor and Thickness. <i>Physical Review Applied</i> , <b>2016</b> , 6,	4.3	44
308	Radiation resistance of Cu(In,Ga)Se2 solar cells under 1-MeV electron irradiation. <i>Thin Solid Films</i> , <b>2001</b> , 387, 228-230	2.2	43
307	Spectral dependence and Hall effect of persistent photoconductivity in polycrystalline Cu(In,Ga)Se2 thin films. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 5093-5099	2.5	43
306	Manipulating the Net Radiative Recombination Rate in Lead Halide Perovskite Films by Modification of Light Outcoupling. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 5084-5090	6.4	42
305	Disorder improves nanophotonic light trapping in thin-film solar cells. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 131102	3.4	42
304	Optimized amorphous silicon oxide buffer layers for silicon heterojunction solar cells with microcrystalline silicon oxide contact layers. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 134501	2.5	42
303	Characterization of a-Si:HĒ-Si interfaces by effective-lifetime measurements. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 093711	2.5	42
302	Selection Metric for Photovoltaic Materials Screening Based on Detailed-Balance Analysis. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	41
301	Diffusion Limitations to I[sub 3][sup I]/I[sup I]Electrolyte Transport Through Nanoporous TiO[sub 2] Networks. <i>Electrochemical and Solid-State Letters</i> , <b>2003</b> , 6, E11		40
300	Silicon solar cell of 16.8 h thickness and 14.7% efficiency. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 2998-3000	3.4	40
299	Advanced large area characterization of thin-film solar modules by electroluminescence and thermography imaging techniques. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 135, 35-42	6.4	38
298	Defect annealing in Cu(In,Ga)Se2 heterojunction solar cells after high-energy electron irradiation. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 2922-2924	3.4	38
297	Recovery of scaler time-delay systems from time series. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1996</b> , 211, 345-349	2.3	38
296	Preparation and measurement of highly efficient a-Si:H single junction solar cells and the advantages of E-SiOx:H n-layers. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2015</b> , 23, 939-948	6.8	37
295	Carrier collection in Cu(In,Ga)Se2 solar cells with graded band gaps and transparent ZnO:Al back contacts. <i>Solar Energy Materials and Solar Cells</i> , <b>2007</b> , 91, 689-695	6.4	37

294	Note on the interpretation of electroluminescence images using their spectral information. <i>Solar Energy Materials and Solar Cells</i> , <b>2008</b> , 92, 1621-1627	6.4	37
293	Classification of spontaneous oscillations at the onset of avalanche breakdown in p-type germanium. <i>Physical Review B</i> , <b>1991</b> , 43, 2255-2262	3.3	37
292	Development of Thin Film Amorphous Silicon Tandem Junction Based Photocathodes Providing High Open-Circuit Voltages for Hydrogen Production. <i>International Journal of Photoenergy</i> , <b>2014</b> , 2014, 1-10	2.1	36
291	Wide Gap Microcrystalline Silicon Oxide Emitter for a-SiOx:H/c-Si Heterojunction Solar Cells. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 122304	1.4	36
290	Metastable electrical transport in Cu(In,Ga)Se2 thin films and ZnO/CdS/Cu(In,Ga)Se2 heterostructures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics,</i> <b>1998</b> , 245, 489-493	2.3	36
289	Improvement of photon collection in Cu(In,Ga)Se2 solar cells and modules by fluorescent frequency conversion. <i>Thin Solid Films</i> , <b>2007</b> , 515, 5964-5967	2.2	36
288	Efficiency limits of Si/SiO2 quantum well solar cells from first-principles calculations. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 104511	2.5	35
287	Influence of damp heat on the electrical properties of Cu(In,Ga)Se2 solar cells. <i>Thin Solid Films</i> , <b>2000</b> , 361-362, 283-287	2.2	35
286	Statistics of the Auger Recombination of Electrons and Holes via Defect Levels in the Band Gap-Application to Lead-Halide Perovskites. <i>ACS Omega</i> , <b>2018</b> , 3, 8009-8016	3.9	34
285	a-Si:H/µc-Si:H tandem junction based photocathodes with high open-circuit voltage for efficient hydrogen production. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 2605-2614	2.5	34
284	Method to extract diffusion length from solar cell parameters Application to polycrystalline silicon. <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 5447-5455	2.5	34
283	Field-dependent exciton dissociation in organic heterojunction solar cells. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	32
282	20屆% efficient silicon solar cell with a low temperature rear side process using laser-fired contacts. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2006</b> , 14, 653-662	6.8	31
281	Electrical characterisation of dye sensitised nanocrystalline TiO2 solar cells with liquid electrolyte and solid-state organic hole conductor. <i>Thin Solid Films</i> , <b>2002</b> , 403-404, 242-246	2.2	31
280	A model for the open circuit voltage relaxation in Cu(In,Ga)Se2heterojunction solar cells. <i>EPJ Applied Physics</i> , <b>1999</b> , 8, 43-52	1.1	31
279	Reciprocity between Charge Injection and Extraction and Its Influence on the Interpretation of Electroluminescence Spectra in Organic Solar Cells. <i>Physical Review Applied</i> , <b>2016</b> , 5,	4.3	30
278	Analysis of sub-stoichiometric hydrogenated silicon oxide films for surface passivation of crystalline silicon solar cells. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 054905	2.5	30
277	Influence of heterointerfaces on the performance of Cu(In,Ga)Se2 solar cells with CdS and In(OHx,Sy) buffer layers. <i>Thin Solid Films</i> , <b>2003</b> , 431-432, 330-334	2.2	30

## (2017-1988)

276	Determination of electric transport properties in the pre- and post-breakdown regime ofp-germanium. <i>European Physical Journal B</i> , <b>1988</b> , 72, 225-233	1.2	30
275	The role of structural properties and defects for the performance of Cu-chalcopyrite-based thin-film solar cells. <i>Physica B: Condensed Matter</i> , <b>2001</b> , 308-310, 1081-1085	2.8	29
274	Classification of current instabilities during low-temperature breakdown in germanium. <i>Applied Physics A: Solids and Surfaces</i> , <b>1989</b> , 48, 155-160		29
273	A silicon carbide-based highly transparent passivating contact for crystalline silicon solar cells approaching efficiencies of 24%. <i>Nature Energy</i> , <b>2021</b> , 6, 529-537	62.3	29
272	Nanoscale observation of waveguide modes enhancing the efficiency of solar cells. <i>Nano Letters</i> , <b>2014</b> , 14, 6599-605	11.5	28
271	Photoluminescence Analysis of Thin-Film Solar Cells <b>2011</b> , 151-175		28
270	Interface Optimization via Fullerene Blends Enables Open-Circuit Voltages of 1.35 <sup>®</sup> in CH3NH3Pb(I0.8Br0.2)3 Solar Cells. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003386	21.8	28
269	Enhanced light trapping in thin-film solar cells by a directionally selective filter. <i>Optics Express</i> , <b>2010</b> , 18 Suppl 2, A133-8	3.3	27
268	Texture of Cu(In,Ga)Se2thin films and nanoscale cathodoluminescence. <i>Journal of Physics Condensed Matter</i> , <b>2004</b> , 16, S85-S89	1.8	27
267	The detailed balance principle and the reciprocity theorem between photocarrier collection and dark carrier distribution in solar cells. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 6412-6418	2.5	27
266	Exemplary locking sequence during self-generated quasiperiodicity of extrinsic germanium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>1987</b> , 124, 335-339	2.3	27
265	Light-induced degradation of adapted quadruple junction thin film silicon solar cells for photoelectrochemical water splitting. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 145, 142-147	6.4	26
264	Solution-Based Silicon in Thin-Film Solar Cells. Advanced Energy Materials, 2014, 4, 1301871	21.8	26
263	Characterization of the CdS/Cu(In,Ga)Se2 interface by electron beam induced currents. <i>Thin Solid Films</i> , <b>2007</b> , 515, 6163-6167	2.2	26
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