

Ruud E I Schropp

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

429
papers

10,295
citations

47
h-index

85
g-index

463
ext. papers

11,348
ext. citations

4.3
avg, IF

6.3
L-index

#	Paper	IF	Citations
429	Nanoepitaxy Growth of Sb ₂ Se ₃ Nanorod Arrays on Mixed-Oriented Transparent Conducting Oxide-Coated Glass for Efficient and Quasiomnidirectional Solar Cells. <i>Solar Rrl</i> , 2022 , 6, 2100869	7.1	
428	Interpenetrating structure for efficient Sb ₂ Se ₃ nanorod array solar cells loaded with CuInSe ₂ QDs sensitizer. <i>Journal of Energy Chemistry</i> , 2021 , 68, 521-521	12	2
427	Thin-Film Silicon PV Technology 2021 ,		
426	3D-Printing for Solar Cells 2021 , 249-272		0
425	Efficient and Stable Planar n-i-p SbSe Solar Cells Enabled by Oriented 1D Trigonal Selenium Structures. <i>Advanced Science</i> , 2020 , 7, 2001013	13.6	34
424	1D/3D Alloying Induced Phase Transition in Light Absorbers for Highly Efficient Sb ₂ Se ₃ Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000054	7.1	12
423	Tailoring C for Efficient Inorganic CsPbI ₃ Br Perovskite Solar Cells and Modules. <i>Advanced Materials</i> , 2020 , 32, e1907361	24	54
422	Corrigendum #2 to Expanding Thermal Plasma Chemical Vapour Deposition of ZnO:Al Layers for CIGS Solar Cells <i>International Journal of Photoenergy</i> , 2020 , 2020, 1-1	2.1	
421	Fabrication Strategy for Efficient 2D/3D Perovskite Solar Cells Enabled by Diffusion Passivation and Strain Compensation. <i>Advanced Energy Materials</i> , 2020 , 10, 2002004	21.8	47
420	Crystallographic Orientation Control of 1D Sb ₂ Se ₃ Nanorod Arrays for Photovoltaic Application by In Situ Back-Contact Engineering. <i>Solar Rrl</i> , 2020 , 4, 2000294	7.1	11
419	Fundamentals for Studying the Physics of Cat-CVD and Difference from PECVD 2019 , 11-39		
418	Cat-doping: A Novel Low-Temperature Impurity Doping Technology 2019 , 377-409		
417	Fundamentals for Analytical Methods for Revealing Chemical Reactions in Cat-CVD 2019 , 41-75		
416	Physics and Chemistry of Cat-CVD 2019 , 77-103		
415	Properties of Inorganic Films Prepared by Cat-CVD 2019 , 105-177		
414	Organic Polymer Synthesis by Cat-CVD-Related Technology [Initiated CVD (iCVD) 2019 , 179-247		1
413	Physics and Technologies for Operating Cat-CVD Apparatus 2019 , 249-291		

412 Application of Cat-CVD Technologies **2019**, 293-342

411 Radicals Generated in Cat-CVD Apparatus and Their Application **2019**, 343-376

410 Inorganic halide perovskite materials and solar cells. *APL Materials*, **2019**, 7, 120702

5.7 11

409 Structurally Reconstructed CsPbI₂Br Perovskite for Highly Stable and Square-Centimeter All-Inorganic Perovskite Solar Cells. *Advanced Energy Materials*, **2019**, 9, 1803572

21.8 149

408 9.2%-efficient core-shell structured antimony selenide nanorod array solar cells. *Nature Communications*, **2019**, 10, 125

17.4 268

407 **2019**,

10

406 In situ induced core/shell stabilized hybrid perovskites via gallium(III) acetylacetonate intermediate towards highly efficient and stable solar cells. *Energy and Environmental Science*, **2018**, 11, 286-293

35.4 66

405 Thermodynamically Self-Healing 1D/1D Hybrid Perovskite Solar Cells. *Advanced Energy Materials*, **2018**, 8, 1703421

21.8 107

404 Nanoparticles for Luminescent Solar Concentrators - A review. *Optical Materials*, **2018**, 84, 636-645

3.3 79

403 Decoupling high surface recombination velocity and epitaxial growth for silicon passivation layers on crystalline silicon. *Journal Physics D: Applied Physics*, **2017**, 50, 065305

3 4

402 Towards the implementation of atomic layer deposited In₂O₃:H in silicon heterojunction solar cells. *Solar Energy Materials and Solar Cells*, **2017**, 163, 43-50

6.4 22

401 Concepts for external light trapping and its utilization in colored and image displaying photovoltaic modules. *Progress in Photovoltaics: Research and Applications*, **2017**, 25, 553-568

6.8 4

400 Benchmarking photoactive thin-film materials using a laser-induced steady-state photocarrier grating. *Progress in Photovoltaics: Research and Applications*, **2017**, 25, 605-613

6.8 3

399 Compensation of self-absorption losses in luminescent solar concentrators by increasing luminophore concentration. *Solar Energy Materials and Solar Cells*, **2017**, 167, 133-139

6.4 42

398 Microscopic studies of polycrystalline nanoparticle growth in free space. *Journal of Crystal Growth*, **2017**, 467, 137-144

1.6 2

397 Textured and micropillar silicon heterojunction solar cells with hot-wire deposited passivation layers. *Thin Solid Films*, **2017**, 635, 66-72

2.2 7

396 Atomic Layer Deposition Enabled Perovskite/PEDOT Solar Cells in a Regular n-i-p Architectural Design. *Advanced Materials Interfaces*, **2017**, 4, 1700043

4.6 20

395 Comprehensive characterisation and analysis of PV module performance under real operating conditions. *Progress in Photovoltaics: Research and Applications*, **2017**, 25, 218-232

6.8 42

394	Ultra-thin MoOx as cathode buffer layer for the improvement of all-inorganic CsPbIBr2 perovskite solar cells. <i>Nano Energy</i> , 2017 , 41, 75-83	17.1	153
393	Geospatial analysis of the energy yield and environmental footprint of different photovoltaic module technologies. <i>Solar Energy</i> , 2017 , 155, 1339-1353	6.8	9
392	Note: Laser-cut molybdenum grids for a retarding field energy analyzer. <i>Review of Scientific Instruments</i> , 2017 , 88, 066108	1.7	2
391	Recombination reduction at the c-Si/RCA oxide interface through Ar-H2 plasma treatment. <i>Applied Surface Science</i> , 2017 , 396, 1226-1230	6.7	
390	High-efficiency humidity-stable planar perovskite solar cells based on atomic layer architecture. <i>Energy and Environmental Science</i> , 2017 , 10, 91-100	35.4	184
389	Exploration of external light trapping for photovoltaic modules. <i>Optics Express</i> , 2016 , 24, A1158-75	3.3	5
388	Carrier Diffusion Lengths in Hybrid Perovskites: Processing, Composition, Aging, and Surface Passivation Effects. <i>Chemistry of Materials</i> , 2016 , 28, 5259-5263	9.6	74
387	Comparison of batch and in-line PECVD of a-Si:H passivation layers for silicon heterojunction solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016 , 10, 725-729	2.5	3
386	Optimizing the parameter space for increased crystallinity of silicon nanoparticles grown in the gas phase (Phys. Status Solidi A 70016). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 2008-2008	1.6	
385	Ion bombardment measurements and simulations of a low temperature VHF PECVD SiH4/H2 discharge in the a-Si:H to μ -Si:H transition regime. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1680-1685	1.6	2
384	Optimizing the parameter space for increased crystallinity of silicon nanoparticles grown in the gas phase. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1826-1830	1.6	
383	A cost roadmap for silicon heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 147, 295-314	6.4	155
382	Double-layered Ag/Al back reflector on stainless steel substrate for a-Si:H thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 145, 368-374	6.4	10
381	Plasmonic Scattering Back Reflector for Light Trapping in Flat Nano-Crystalline Silicon Solar Cells. <i>ACS Photonics</i> , 2016 , 3, 685-691	6.3	18
380	Silicon heterojunction solar cell passivation in combination with nanocrystalline silicon oxide emitters. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1932-1936	1.6	9
379	Chemical sputtering by H2+ and H3+ ions during silicon deposition. <i>Journal of Applied Physics</i> , 2016 , 120, 053304	2.5	7
378	Very thin and stable thin-film silicon alloy triple junction solar cells by hot wire chemical vapor deposition. <i>Applied Physics Letters</i> , 2016 , 109, 093902	3.4	3
377	Re-assessment of net energy production and greenhouse gas emissions avoidance after 40 years of photovoltaics development. <i>Nature Communications</i> , 2016 , 7, 13728	17.4	125

376	Ultrathin tandem solar cells on nanorod morphology with 35-nm thick hydrogenated amorphous silicon germanium bottom cell absorber layer. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 158, 209-213	6.4	8
375	3D-printed external light trap for solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2016 , 24, 623-633	6.8	20
374	Multi-layered hydrogenated p-type microcrystalline silicon windows for a-Si:H thin film solar cells on opaque substrates. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 6240-6246	6.7	4
373	Gas phase grown silicon germanium nanocrystals. <i>Chemical Physics Letters</i> , 2016 , 661, 185-190	2.5	2
372	Atomic Layer Deposited ZnO: B As Transparent Conductive Oxide for Increased Short Circuit Current Density in Silicon Heterojunction Solar Cells. <i>Energy Procedia</i> , 2016 , 92, 624-632	2.3	7
371	3D-printed concentrator arrays for external light trapping on thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 139, 19-26	6.4	26
370	Optical Response of Silver Nanoneedles on a Mirror. <i>Plasmonics</i> , 2015 , 10, 1089-1096	2.4	2
369	Er(3+)/Yb(3+) upconverters for InGaP solar cells under concentrated broadband illumination. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11234-43	3.6	18
368	Gas phase synthesis of two ensembles of silicon nanoparticles. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 375201	3	6
367	Industrialization of Hot Wire Chemical Vapor Deposition for thin film applications. <i>Thin Solid Films</i> , 2015 , 595, 272-283	2.2	33
366	Design of 4-terminal Solar Modules Combining Thin-film Wide-Bandgap Top Cells and c-Si Bottom Cells. <i>Energy Procedia</i> , 2015 , 77, 500-507	2.3	17
365	Size control of gas phase grown silicon nanoparticles by varying the plasma OFF time in silane pulsed plasma. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1803, 1		2
364	p-type nc-SiO _x :H emitter layer for silicon heterojunction solar cells grown by rf-PECVD. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1770, 7-12		1
363	Preparation and measurement of highly efficient a-Si:H single junction solar cells and the advantages of n-SiO _x :H n-layers. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 939-948	6.8	37
362	Efficient nanorod-based amorphous silicon solar cells with advanced light trapping. <i>Journal of Applied Physics</i> , 2015 , 118, 185307	2.5	8
361	Amorphous silicon solar cells on nano-imprinted commodity paper without sacrificing efficiency. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 622-626	2.5	11
360	Life-cycle greenhouse gas emissions and energy payback time of current and prospective silicon heterojunction solar cell designs. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1406-1428	6.8	40
359	Corrigendum to Expanding Thermal Plasma Chemical Vapour Deposition of ZnO:Al Layers for CIGS Solar Cells <i>International Journal of Photoenergy</i> , 2015 , 2015, 1-1	2.1	

358	Optimization of hydrogenated amorphous silicon germanium thin films and solar cells deposited by hot wire chemical vapor deposition. <i>Thin Solid Films</i> , 2015 , 595, 226-230	2.2	24
357	Hetero- and homogeneous three-dimensional hierarchical tungsten oxide nanostructures by hot-wire chemical vapor deposition. <i>Thin Solid Films</i> , 2015 , 575, 76-83	2.2	9
356	Using hot wire and initiated chemical vapor deposition for gas barrier thin film encapsulation. <i>Thin Solid Films</i> , 2015 , 575, 67-71	2.2	29
355	Formation and Photoluminescence of Cauliflower Silicon Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11042-11047	3.8	13
354	Identifying parasitic current pathways in CIGS solar cells by modelling dark J-V response. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 1516-1525	6.8	55
353	Amorphous and Microcrystalline Silicon Solar Cells 2014 , 85-111		1
352	Utilization of geometric light trapping in thin film silicon solar cells: simulations and experiments. <i>Progress in Photovoltaics: Research and Applications</i> , 2014 , 22, 540-547	6.8	14
351	Identifying parasitic current pathways in CIGS solar cells by modelling dark JV response 2014 ,		2
350	Synthesis of SnS/In ₂ S ₃ core-shell nanoparticles. <i>Chemical Physics Letters</i> , 2014 , 612, 306-308	2.5	4
349	Fabrication of SnS quantum dots for solar-cell applications: Issues of capping and doping. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 1309-1321	1.3	10
348	Moisture barrier enhancement by spontaneous formation of silicon oxide interlayers in hot wire chemical vapor deposition of silicon nitride on poly(glycidyl methacrylate). <i>Canadian Journal of Physics</i> , 2014 , 92, 593-596	1.1	1
347	Luminescent Solar Concentrators: The route to 10% efficiency 2014 ,		4
346	Hydrogenated amorphous silicon germanium by Hot Wire CVD as an alternative for microcrystalline silicon in tandem and triple junction solar cells. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1666, 42		3
345	Expanding Thermal Plasma Chemical Vapour Deposition of ZnO:Al Layers for CIGS Solar Cells. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-9	2.1	6
344	Probing periodic oscillations in a silane dusty plasma in a very high-frequency plasma enhanced chemical vapor deposition process. <i>Canadian Journal of Physics</i> , 2014 , 92, 744-748	1.1	2
343	Switching CdSe quantum dot luminescence with a-Si:H. <i>Nanotechnology</i> , 2013 , 24, 315202	3.4	
342	Microcrystalline silicon-oxygen alloys for application in silicon solar cells and modules. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 119, 134-143	6.4	98
341	Upconversion in solar cells. <i>Nanoscale Research Letters</i> , 2013 , 8, 81	5	164

340	Elongated nanostructures for radial junction solar cells. <i>Reports on Progress in Physics</i> , 2013 , 76, 106502	14.4	33
339	All hot wire chemical vapor deposition low substrate temperature transparent thin film moisture barrier. <i>Thin Solid Films</i> , 2013 , 532, 84-88	2.2	17
338	Hot-wire chemical vapor deposition of WO ₃ thin films of various oxygen contents. <i>Materials Chemistry and Physics</i> , 2013 , 140, 89-96	4.4	19
337	Tackling self-absorption in luminescent solar concentrators with type-II colloidal quantum dots. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 111, 57-65	6.4	116
336	Synthesis and conductivity mapping of SnS quantum dots for photovoltaic applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 656-659	3.1	10
335	Polymer Layers by Initiated CVD for Thin Film Gas Barrier Encapsulation 2013 , 255-289		1
334	Increased Upconversion Response in a-Si:H Solar Cells With Broad-Band Light. <i>IEEE Journal of Photovoltaics</i> , 2013 , 3, 17-21	3.7	32
333	Exploration of parameters influencing the self-absorption losses in luminescent solar concentrators with an experimentally validated combined ray-tracing/Monte-Carlo model 2013 ,		4
332	Conductivity measurement of individual SnS nanoparticles by Peak Force AFM. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1557, 1		
331	Design and photovoltaic performance of nanorod solar cells with amorphous silicon absorber layer thickness of only 25 nm 2013 ,		1
330	Cost analysis of two Silicon Heterojunction solar cell designs 2013 ,		1
329	Self-assembled isolated monodisperse NiO _{1+n} nanoparticles as catalytic templates for nanomaterials synthesis. <i>Materials Chemistry and Physics</i> , 2012 , 135, 38-45	4.4	2
328	Changes in the structural and electrical properties of vacuum post-annealed tungsten- and titanium-doped indium oxide films deposited by radio frequency magnetron sputtering. <i>Thin Solid Films</i> , 2012 , 520, 2096-2101	2.2	23
327	Metallic Tungsten Nanostructures and Highly Nanostructured Thin Films by Deposition of Tungsten Oxide and Subsequent Reduction in a Single Hot-Wire CVD Process. <i>Chemical Vapor Deposition</i> , 2012 , 18, 70-75		5
326	Plasmonic nano-antenna a-Si:H solar cell. <i>Optics Express</i> , 2012 , 20, 27327-36	3.3	18
325	Plasmonic light trapping in thin-film Si solar cells. <i>Journal of Optics (United Kingdom)</i> , 2012 , 14, 024002	1.7	250
324	Thin-Film Silicon PV Technology 2012 , 389-398		4
323	Fabrication and characterization of nanorod solar cells with an ultrathin a-Si:H absorber layer. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2209-2213	3.9	13

322	A calibration method for accurate prediction of amorphous to nanocrystalline transition from line intensities of optical emission spectrum. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1995-1999	3.9	1
321	Boron-doped hydrogenated microcrystalline silicon oxide (β -SiO _x :H) for application in thin-film silicon solar cells. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1962-1965	3.9	39
320	Improving the performance of amorphous and crystalline silicon heterojunction solar cells by monitoring surface passivation. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2245-2248	3.9	22
319	A novel structured plastic substrate for light confinement in thin film silicon solar cells by a geometric optical effect. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 2308-2312	3.9	5
318	Conductivity mapping of nanoparticles by torsional resonance tunneling atomic force microscopy. <i>Applied Physics Letters</i> , 2012 , 101, 083107	3.4	9
317	Solar Spectrum Conversion for Photovoltaics Using Nanoparticles 2012 ,		7
316	Excellent organic/inorganic transparent thin film moisture barrier entirely made by hot wire CVD at 100 °C. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 151-153	2.5	39
315	Scattering, Diffraction, and Geometric Light Trapping in Thin Film Amorphous Silicon Solar Cells on Plastic Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1426, 155-160		1
314	All Hot Wire CVD Organic/Inorganic Hybrid Barrier Layers for Thin Film Encapsulation. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1447, 19		4
313	Very Thin Micromorph Tandem Solar Cells Deposited at Low Substrate Temperature. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1426, 45-49		1
312	An optical analysis tool for avoiding dust formation in very-high frequency hydrogen diluted silane plasmas at low substrate temperatures. <i>Physics of Plasmas</i> , 2012 , 19, 020703	2.1	2
311	Large-Area Thin-Film Silicon: Synergy between Displays and Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 03CA07	1.4	4
310	Large-Area Thin-Film Silicon: Synergy between Displays and Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 03CA07	1.4	1
309	Thin-Film Silicon PV Technology 2012 , 325-334		
308	Upconverter solar cells: materials and applications. <i>Energy and Environmental Science</i> , 2011 , 4, 4835	35.4	309
307	Electrical properties of vacuum-annealed titanium-doped indium oxide films. <i>Applied Surface Science</i> , 2011 , 257, 9461-9465	6.7	21
306	Optimized spatial correlations for broadband light trapping nanopatterns in high efficiency ultrathin film a-Si:H solar cells. <i>Nano Letters</i> , 2011 , 11, 4239-45	11.5	306
305	Low temperature silicon nitride by hot wire chemical vapour deposition for the use in impermeable thin film encapsulation on flexible substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 8202-5	1.3	11

304	Growth process conditions of tungsten oxide thin films using hot-wire chemical vapor deposition. <i>Materials Chemistry and Physics</i> , 2011 , 131, 375-386	4.4	20
303	. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 2014-2021	2.9	13
302	Thinner silicon-based tandem solar cell with high efficiency made by hot wire CVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 3002-3004		1
301	Nanorod solar cell with an ultrathin a-Si:H absorber layer. <i>Applied Physics Letters</i> , 2011 , 98, 113111	3.4	70
300	Polymer layers by initiated chemical vapor deposition for thin film gas barrier encapsulation. <i>Thin Solid Films</i> , 2011 , 519, 4479-4482	2.2	17
299	Synthesis of poly(meta-diethynyl benzene) with initiated chemical vapour deposition. <i>Thin Solid Films</i> , 2011 , 519, 4418-4420	2.2	7
298	Thermal annealing of protocrystalline a-Si:H. <i>Thin Solid Films</i> , 2011 , 519, 4462-4465	2.2	3
297	Comparison of surface passivation of crystalline silicon by a-Si:H with and without atomic hydrogen treatment using hot-wire chemical vapor deposition. <i>Thin Solid Films</i> , 2011 , 519, 4476-4478	2.2	24
296	High quality crystalline silicon surface passivation by combined intrinsic and n-type hydrogenated amorphous silicon. <i>Applied Physics Letters</i> , 2011 , 99, 203503	3.4	28
295	Excellent crystalline silicon surface passivation by amorphous silicon irrespective of the technique used for chemical vapor deposition. <i>Applied Physics Letters</i> , 2011 , 98, 153514	3.4	54
294	Thin Film Silicon Solar Cells Under Moderate Concentration. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1321, 9		
293	Electrical and Optical Properties of Indium and Aluminium Doped Zinc Oxide Films Prepared by RF Magnetron Sputtering. <i>Advanced Materials Research</i> , 2011 , 194-196, 2272-2275	0.5	1
292	Temperature Dependence of the Ion Energy Distribution in a Hydrogen Diluted Silane VHF Plasma 2011 ,		2
291	Synthesis of nanocrystalline silicon thin films using the increase of the deposition pressure in the hot-wire chemical vapour deposition technique. <i>South African Journal of Science</i> , 2010 , 105,	1.3	2
290	Nanoparticles for solar spectrum conversion 2010 ,		4
289	Oxygenated Protocrystalline Silicon Thin Films for Wide Bandgap Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1245, 1		4
288	Photogating effect as a defect probe in hydrogenated nanocrystalline silicon solar cells. <i>Journal of Applied Physics</i> , 2010 , 108, 014509	2.5	2
287	The statistical shift of the chemical potential causing anomalous conductivity in hydrogenated microcrystalline silicon. <i>Journal of Applied Physics</i> , 2010 , 108, 063714	2.5	7

286	Optimizing Quantum Dot Solar Concentrators with Thin Film Solar Cells. <i>Advances in Science and Technology</i> , 2010 , 74, 176-181	0.1	2
285	Above-CMOS a-Si and CIGS solar cells for powering autonomous microsystems 2010 ,		7
284	Light trapping in ultrathin plasmonic solar cells. <i>Optics Express</i> , 2010 , 18 Suppl 2, A237-45	3.3	494
283	Plasmonic light trapping for thin film A-Si:H solar cells 2010 ,		3
282	Synthesis of WO ₃ Nanogranular Thin Films by Hot-Wire CVD. <i>Chemical Vapor Deposition</i> , 2010 , 16, 179-184		18
281	Transparent conducting oxide layers for thin film silicon solar cells. <i>Thin Solid Films</i> , 2010 , 518, e129-e135.2		33
280	Fabrication of thin film silicon solar cells on plastic substrate by very high frequency PECVD. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 1534-1541	6.4	57
279	Towards upconversion for amorphous silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 1919-1922	6.4	108
278	Enhanced near-infrared response of a-Si:H solar cells with Er^{3+} (2%) upconversion phosphors. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2395-2398	6.4	218
277	Degradation of thin film nanocrystalline silicon solar cells with 1 MeV protons. <i>Energy Procedia</i> , 2010 , 2, 221-226	2.3	8
276	Doping of oligo(phenyl acetylene) with iodine vapour. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 647-650	1.6	6
275	High hydrogen dilution and low substrate temperature cause columnar growth of hydrogenated amorphous silicon. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 525-529	1.6	6
274	High deposition rate nanocrystalline silicon with enhanced homogeneity. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 530-534	1.6	5
273	Employing the effective medium approximation to model the optical properties of crystallized a-Si:H obtained by MIC. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		1
272	Using amorphous silicon solar cells to boost the viability of luminescent solar concentrators. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		2
271	Nanoparticles for Solar Spectrum Conversion 2010 , 351-390		1
270	Exploring dark current voltage characteristics of micromorph silicon tandem cells with computer simulations. <i>Journal of Applied Physics</i> , 2009 , 106, 014502	2.5	18
269	Potential of Hot Wire CVD for active matrix TFT manufacturing. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1153, 1		

268	Gas phase conditions for obtaining device quality amorphous silicon at low temperature and high deposition rate. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1153, 1		3
267	Hot Wire Chemical Vapor Deposition: Recent Progress, Present State of the Art and Competitive Opportunities. <i>ECS Transactions</i> , 2009 , 25, 3-14	1	8
266	Ultrafast deposition of silicon nitride and semiconductor silicon thin films by hot wire chemical vapor deposition. <i>Thin Solid Films</i> , 2009 , 517, 3039-3042	2.2	8
265	Continuous hot-wire chemical vapor deposition on moving glass substrates. <i>Thin Solid Films</i> , 2009 , 517, 3588-3590	2.2	8
264	Gas phase considerations for the growth of device quality nanocrystalline silicon at high rate. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 159-160, 38-43	3.1	10
263	Compensation of decreased ion energy by increased hydrogen dilution in plasma deposition of thin film silicon solar cells at low substrate temperatures. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 159-160, 53-56	3.1	9
262	Heat transfer model of an iCVD reactor. <i>Thin Solid Films</i> , 2009 , 517, 3555-3558	2.2	7
261	Frontiers in HWCVD. <i>Thin Solid Films</i> , 2009 , 517, 3415-3419	2.2	30
260	Reversibility of silicidation of Ta filaments in HWCVD of thin film silicon. <i>Thin Solid Films</i> , 2009 , 517, 3431-3434	2.2	10
259	Formation of isolated carbon nanofibers with hot-wire CVD using nanosphere lithography as catalyst patterning technique. <i>Thin Solid Films</i> , 2009 , 517, 3566-3569	2.2	11
258	Effect of ammonia on Ta filaments in the hot wire CVD process. <i>Thin Solid Films</i> , 2009 , 517, 3435-3438	2.2	1
257	The effect of composition on the bond structure and refractive index of silicon nitride deposited by HWCVD and PECVD. <i>Thin Solid Films</i> , 2009 , 517, 3499-3502	2.2	31
256	Hot wire CVD deposition of nanocrystalline silicon solar cells on rough substrates. <i>Thin Solid Films</i> , 2009 , 517, 3476-3480	2.2	8
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