

Ruud E I Schropp

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429
papers

10,295
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47
h-index

85
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463
ext. papers

11,348
ext. citations

4.3
avg, IF

6.3
L-index

#	Paper	IF	Citations
429	Light trapping in ultrathin plasmonic solar cells. <i>Optics Express</i> , 2010 , 18 Suppl 2, A237-45	3.3	494
428	Upconverter solar cells: materials and applications. <i>Energy and Environmental Science</i> , 2011 , 4, 4835	35.4	309
427	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
426	9.2%-efficient core-shell structured antimony selenide nanorod array solar cells. <i>Nature Communications</i> , 2019 , 10, 125	17.4	268
425	Plasmonic light trapping in thin-film Si solar cells. <i>Journal of Optics (United Kingdom)</i> , 2012 , 14, 024002	1.7	250
424	Improved red-response in thin film a-Si:H solar cells with soft-imprinted plasmonic back reflectors. <i>Applied Physics Letters</i> , 2009 , 95, 183503	3.4	225
423	Enhanced near-infrared response of a-Si:H solar cells with $\text{NaYF}_4:\text{Yb}^{3+}$ (18%), Er^{3+} (2%) upconversion phosphors. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 2395-2398	6.4	218
422	Optical modeling of a-Si:H solar cells with rough interfaces: Effect of back contact and interface roughness. <i>Journal of Applied Physics</i> , 2000 , 88, 6436-6443	2.5	199
421	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
420	Upconversion in solar cells. <i>Nanoscale Research Letters</i> , 2013 , 8, 81	5	164
419	Amorphous and Microcrystalline Silicon Solar Cells: Modeling, Materials and Device Technology 1998 ,		156
418	A cost roadmap for silicon heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 147, 295-314	6.4	155
417	Ultra-thin MoOx as cathode buffer layer for the improvement of all-inorganic CsPbI ₂ Br ₂ perovskite solar cells. <i>Nano Energy</i> , 2017 , 41, 75-83	17.1	153
416	Enhancing solar cell efficiency by using spectral converters. <i>Solar Energy Materials and Solar Cells</i> , 2005 , 87, 395-409	6.4	153
415	Structurally Reconstructed CsPbI ₂ Br Perovskite for Highly Stable and Square-Centimeter All-Inorganic Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803572	21.8	149
414	Crystalline silicon cell performance at low light intensities. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 1471-1481	6.4	131
413	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

412	Device-quality polycrystalline and amorphous silicon films by hot-wire chemical vapour deposition. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1997 , 76, 309-321		119
411	Structural defects caused by a rough substrate and their influence on the performance of hydrogenated nano-crystalline silicon n ⁺ solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 338-349	6.4	117
410	Understanding light trapping by light scattering textured back electrodes in thin film n-i-p-type silicon solar cells. <i>Journal of Applied Physics</i> , 2007 , 102, 014503	2.5	117
409	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
408	Towards upconversion for amorphous silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 1919-1922	6.4	108
407	Thermodynamically Self-Healing 1DBD Hybrid Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018 , 8, 1703421	21.8	107
406	Properties of conductive zinc oxide films for transparent electrode applications prepared by rf magnetron sputtering. <i>Journal of Applied Physics</i> , 1989 , 66, 2027-2031	2.5	100
405	Microcrystalline siliconoxygen alloys for application in silicon solar cells and modules. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 119, 134-143	6.4	98
404	Incorporation of p-type microcrystalline silicon films in amorphous silicon based solar cells in a superstrate structure. <i>Solar Energy Materials and Solar Cells</i> , 1998 , 53, 189-203	6.4	82
403	Surface textured ZnO films for thin film solar cell applications by expanding thermal plasma CVD. <i>Thin Solid Films</i> , 2001 , 392, 226-230	2.2	82
402	Nanoparticles for Luminescent Solar Concentrators - A review. <i>Optical Materials</i> , 2018 , 84, 636-645	3.3	79
401	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
400	Nanorod solar cell with an ultrathin a-Si:H absorber layer. <i>Applied Physics Letters</i> , 2011 , 98, 113111	3.4	70
399	Deposition of amorphous silicon films by hot-wire chemical vapor deposition. <i>Journal of Applied Physics</i> , 1999 , 85, 6843-6852	2.5	70
398	A new modular multichamber plasma enhanced chemical vapor deposition system. <i>Applied Surface Science</i> , 1993 , 70-71, 716-721	6.7	67
397	In situ induced core/shell stabilized hybrid perovskites via gallium(III) acetylacetonate intermediate towards highly efficient and stable solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 286-293	35.4	66
396	Amorphous silicon solar cells on natively textured ZnO grown by PECVD. <i>Thin Solid Films</i> , 2001 , 392, 315-319	2.1	64
395	Hot-Wire CVD Poly-Silicon Films for Thin Film Devices. <i>Materials Research Society Symposia Proceedings</i> , 1998 , 507, 879		62

394	Present status of micro- and polycrystalline silicon solar cells made by hot-wire chemical vapor deposition. <i>Thin Solid Films</i> , 2004 , 451-452, 455-465	2.2	60
393	Characterization of Photonic Colloidal Single Crystals by Microradian X-ray Diffraction. <i>Advanced Materials</i> , 2006 , 18, 1662-1666	24	58
392	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
391	Stable amorphous-silicon thin-film transistors. <i>Applied Physics Letters</i> , 1997 , 70, 2681-2683	3.4	57
390	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
389	Self-Assembly of Monolayers of Semiconductor Nanocrystallites. <i>Chemistry of Materials</i> , 1997 , 9, 2969-2982	3.4	55
388	Photoinduced charge separation and recombination in a conjugated polymer-semiconductor nanocrystal composite. <i>Chemical Physics Letters</i> , 1998 , 290, 297-303	2.5	55
387	Photovoltaic effects in porphyrin polymer films and heterojunctions. <i>Journal of Applied Physics</i> , 1996 , 80, 3381-3389	2.5	55
386	Tailoring C for Efficient Inorganic CsPbI Br Perovskite Solar Cells and Modules. <i>Advanced Materials</i> , 2020 , 32, e1907361	24	54
385	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
384	Purely Intrinsic Poly-silicon Films for n-i-p Solar Cells. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 5436-5443	3.4	53
383	Charge Dynamics following Dye Photoinjection into a TiO ₂ Nanocrystalline Network. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 766-769	3.4	53
382	A compact equivalent circuit for the dark current-voltage characteristics of nonideal solar cells. <i>Journal of Applied Physics</i> , 2006 , 100, 084513	2.5	47
381	Modeling improvement of spectral response of solar cells by deployment of spectral converters containing semiconductor nanocrystals. <i>Semiconductors</i> , 2004 , 38, 962-969	0.7	47
380	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
379	Amorphous Silicon Carbide/Crystalline Silicon Heterojunction Solar Cells: A Comprehensive Study of the Photocarrier Collection. <i>Japanese Journal of Applied Physics</i> , 1998 , 37, 3926-3932	1.4	46
378	Performance of heterojunction p+ microcrystalline silicon n crystalline silicon solar cells. <i>Journal of Applied Physics</i> , 1997 , 82, 6089-6095	2.5	45
377	Hydrogen microstructure in hydrogenated amorphous silicon. <i>Physical Review B</i> , 1996 , 54, 17759-17762	3.3	43

376	Compensation of self-absorption losses in luminescent solar concentrators by increasing luminophore concentration. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 167, 133-139	6.4	42
375	Comprehensive characterisation and analysis of PV module performance under real operating conditions. <i>Progress in Photovoltaics: Research and Applications</i> , 2017 , 25, 218-232	6.8	42
374	Microcrystalline n-i-p tunnel junction in a-Si:H/a-Si:H tandem cells. <i>Journal of Applied Physics</i> , 2001 , 89, 4010-4018	2.5	42
373	Amorphous Silicon, Microcrystalline Silicon, and Thin-Film Polycrystalline Silicon Solar Cells. <i>MRS Bulletin</i> , 2007 , 32, 219-224	3.2	41
372	Amorphous-silicon thin-film transistors deposited by VHF-PECVD and hot-wire CVD. <i>Journal of Non-Crystalline Solids</i> , 2002 , 299-302, 1340-1344	3.9	41
371	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
370	Growth process and properties of silicon nitride deposited by hot-wire chemical vapor deposition. <i>Journal of Applied Physics</i> , 2003 , 93, 2618-2625	2.5	40
369	Water splitting with silver chloride photoanodes and amorphous silicon solar cells. <i>Photochemical and Photobiological Sciences</i> , 2004 , 3, 1017-25	4.2	40
368	Boron-doped hydrogenated microcrystalline silicon oxide (μ -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
367	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
366	Significance of tunneling in p+ amorphous silicon carbide n crystalline silicon heterojunction solar cells. <i>Applied Physics Letters</i> , 1998 , 73, 2609-2611	3.4	39
365	Unambiguous determination of Fourier-transform infrared spectroscopy proportionality factors: The case of silicon nitride. <i>Physical Review B</i> , 2006 , 73,	3.3	39
364	High-efficiency μ c-Si solar cells made by very high-frequency plasma-enhanced chemical vapor deposition. <i>Progress in Photovoltaics: Research and Applications</i> , 2006 , 14, 305-311	6.8	39
363	The influence of different catalyzers in hot-wire CVD for the deposition of polycrystalline silicon thin films. <i>Thin Solid Films</i> , 2001 , 395, 194-197	2.2	39
362	Instability mechanism in hydrogenated amorphous silicon thin-film transistors. <i>Applied Physics Letters</i> , 1987 , 50, 185-187	3.4	39
361	A self-consistent analysis of temperature-dependent field-effect measurements in hydrogenated amorphous silicon thin-film transistors. <i>Journal of Applied Physics</i> , 1986 , 60, 643-649	2.5	38
360	Preparation and measurement of highly efficient a-Si:H single junction solar cells and the advantages of μ -SiO _x :H n-layers. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 939-948	6.8	37
359	New challenges in thin film transistor (TFT) research. <i>Journal of Non-Crystalline Solids</i> , 2002 , 299-302, 1304-1310	3.9	37

358	Reduction of Tin Oxide by Hydrogen Radicals. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 6219-6224	3.4	36
357	Computer-aided band gap engineering and experimental verification of amorphous silicon/germanium solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2004 , 81, 73-86	6.4	35
356	Growth mechanism of microcrystalline silicon at high pressure conditions. <i>Journal of Non-Crystalline Solids</i> , 2004 , 338-340, 56-60	3.9	35
355	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
354	Influence on cell performance of bulk defect density in microcrystalline silicon grown by VHF PECVD. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1868-1871	3.9	34
353	Status of Cat-CVD (Hot-Wire CVD) research in Europe. <i>Thin Solid Films</i> , 2001 , 395, 17-24	2.2	34
352	Novel profiled thin-film polycrystalline silicon solar cells on stainless steel substrates. <i>IEEE Transactions on Electron Devices</i> , 1999 , 46, 2069-2071	2.9	34
351	Industrialization of Hot Wire Chemical Vapor Deposition for thin film applications. <i>Thin Solid Films</i> , 2015 , 595, 272-283	2.2	33
350	Elongated nanostructures for radial junction solar cells. <i>Reports on Progress in Physics</i> , 2013 , 76, 106502	14.4	33
349	Transparent conducting oxide layers for thin film silicon solar cells. <i>Thin Solid Films</i> , 2010 , 518, e129-e135	2	33
348	Improvement in the spectral response at long wavelength of a-SiGe:H solar cells by exponential band gap design of the i-layer. <i>Journal of Non-Crystalline Solids</i> , 2002 , 299-302, 1131-1135	3.9	33
347	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
346	The influence of the filament temperature on the structure of hot-wire deposited silicon. <i>Thin Solid Films</i> , 2003 , 430, 46-49	2.2	32
345	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
344	Frontiers in HWCVD. <i>Thin Solid Films</i> , 2009 , 517, 3415-3419	2.2	30
343	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
342	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
341	Influence of Pressure and Plasma Potential on High Growth Rate Microcrystalline Silicon Grown by Very High Frequency Plasma Enhanced Chemical Vapour Deposition. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 6166-6172	1.4	28

340	Protocrystalline Silicon at High Rate from Undiluted Silane. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 808, 425		28
339	Heterogeneous growth of microcrystalline silicon germanium. <i>Solar Energy Materials and Solar Cells</i> , 2002 , 74, 553-560	6.4	28
338	Temperature-dependent effects in field-effect measurements on hydrogenated amorphous silicon thin-film transistors. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1988 , 58, 389-410		28
337	On the quality of contacts in a-Si:H staggered electrode thin-film transistors. <i>IEEE Transactions on Electron Devices</i> , 1985 , 32, 1757-1760	2.9	28
336	Advances in solar cells made with hot wire chemical vapor deposition (HWCVD): superior films and devices at low equipment cost. <i>Thin Solid Films</i> , 2002 , 403-404, 17-25	2.2	27
335	Stability of hot-wire deposited amorphous-silicon thin-film transistors. <i>Applied Physics Letters</i> , 1996 , 69, 1062-1064	3.4	27
334	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
333	Optimization of n ⁺ p protocrystalline SiGe:H thin film solar cells for application in thin film multijunction solar cells. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1941-1944	3.9	26
332	Thin-film transistors deposited by hot-wire chemical vapor deposition. <i>Thin Solid Films</i> , 2003 , 430, 220-225		26
331	Growth mechanism of nanocrystalline silicon at the phase transition and its application in thin film solar cells. <i>Journal of Crystal Growth</i> , 2009 , 311, 760-764	1.6	25
330	Initiated chemical vapour deposition (iCVD) of thermally stable poly-glycidyl methacrylate. <i>Surface and Coatings Technology</i> , 2007 , 201, 9422-9425	4.4	25
329	Silicon nitride at high deposition rate by Hot Wire Chemical Vapor Deposition as passivating and antireflection layer on multicrystalline silicon solar cells. <i>Thin Solid Films</i> , 2006 , 501, 51-54	2.2	25
328	Detailed structural study of low temperature mixed-phase Si films by X-TEM and ambient conductive AFM. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1011-1015	3.9	25
327	Low degradation and fast annealing effects of amorphous silicon multilayer processed through alternate hydrogen dilution. <i>Journal of Applied Physics</i> , 2000 , 88, 4881	2.5	25
326	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
325	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
324	Photocarrier collection in a-SiC:H/c-Si heterojunction solar cells. <i>Journal of Non-Crystalline Solids</i> , 1998 , 227-230, 1291-1294	3.9	24
323	Tandem solar cells deposited using hot-wire chemical vapor deposition. <i>Journal of Non-Crystalline Solids</i> , 2004 , 338-340, 655-658	3.9	24

322	Hot-wire silicon nitride for thin-film transistors. <i>Thin Solid Films</i> , 2001 , 395, 339-342	2.2	24
321	Profiled Poly-Silicon Films by Hot-Wire Chemical Vapour Deposition for Solar Cells on Cheap Metal Substrate. <i>Solid State Phenomena</i> , 1999 , 67-68, 465-470	0.4	24
320	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
319	Thin film silicon n^+p solar cells deposited by VHF PECVD at 100°C substrate temperature. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 680-683	6.4	23
318	Hydrogenated amorphous and polycrystalline silicon TFTs by hot-wire CVD. <i>Journal of Non-Crystalline Solids</i> , 1998 , 227-230, 1202-1206	3.9	23
317	A comparison of grain nucleation and grain growth during crystallization of HWCVD and PECVD a-Si:H films. <i>Thin Solid Films</i> , 2008 , 516, 529-532	2.2	23
316	Beneficial effects of sputtered ZnO:Al protection layer on SnO ₂ :F for high-deposition rate hot-wire CVD p^+n solar cells. <i>Thin Solid Films</i> , 2006 , 501, 47-50	2.2	23
315	The inverse Meyer-Neldel rule in thin-film transistors with intrinsic heterogeneous silicon. <i>Applied Physics Letters</i> , 1999 , 74, 1012-1014	3.4	23
314	Towards the implementation of atomic layer deposited In ₂ O ₃ :H in silicon heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 163, 43-50	6.4	22
313	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
312	Nanostructured thin films for multibandgap silicon triple junction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 1129-1133	6.4	22
311	Controlling the quality of nanocrystalline silicon made by hot-wire chemical vapor deposition by using a reverse H ₂ profiling technique. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2087-2091	3.9	22
310	New developments in amorphous thin-film silicon solar cells. <i>IEEE Transactions on Electron Devices</i> , 1999 , 46, 2086-2092	2.9	22
309	Electrical properties of vacuum-annealed titanium-doped indium oxide films. <i>Applied Surface Science</i> , 2011 , 257, 9461-9465	6.7	21
308	Low-temperature deposition of polycrystalline silicon thin films by hot-wire CVD. <i>Solar Energy Materials and Solar Cells</i> , 1997 , 48, 269-277	6.4	21
307	Multi-crystalline Si solar cells with very fast deposited (180 nm/min) passivating hot-wire CVD silicon nitride as antireflection coating. <i>Progress in Photovoltaics: Research and Applications</i> , 2007 , 15, 563-573	6.8	21
306	Beneficial effect of a low deposition temperature of hot-wire deposited intrinsic amorphous silicon for solar cells. <i>Journal of Applied Physics</i> , 2003 , 93, 121-125	2.5	21
305	Atomic Layer Deposition Enabled Perovskite/PEDOT Solar Cells in a Regular n^+p Architectural Design. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700043	4.6	20

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	Property control of expanding thermal plasma deposited textured zinc oxide with focus on thin film solar cell applications. <i>Thin Solid Films</i> , 2005 , 492, 298-306	2.2	20
302	Application of hot-wire chemical vapor-deposited Si:H films in thin film transistors and solar cells. <i>Thin Solid Films</i> , 2001 , 395, 320-329	2.2	20
301	Microcrystalline Silicon for Solar Cells at High Deposition Rates by Hot Wire Cvd. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 715, 2631		20
300	Role of the buffer layer in the active junction in amorphous-crystalline silicon heterojunction solar cells. <i>Journal of Applied Physics</i> , 2000 , 88, 293-299	2.5	20
299	3D-printed external light trap for solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2016 , 24, 623-633	6.8	20
298	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
297	High-density silicon nitride deposited at low substrate temperature with high deposition rate using hot wire chemical vapour deposition. <i>Surface and Coatings Technology</i> , 2007 , 201, 9285-9288	4.4	19
296	Highly stable hydrogenated amorphous silicon germanium solar cells. <i>IEEE Transactions on Electron Devices</i> , 2002 , 49, 949-952	2.9	19
295	Incorporation of amorphous and microcrystalline silicon in n ⁺ solar cells. <i>Thin Solid Films</i> , 2003 , 430, 216-219	2.2	19
294	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
293	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
292	Plasmonic nano-antenna a-Si:H solar cell. <i>Optics Express</i> , 2012 , 20, 27327-36	3.3	18
291	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
290	Synthesis of WO ₃ Nanogranular Thin Films by Hot-Wire CVD. <i>Chemical Vapor Deposition</i> , 2010 , 16, 179-184		18
289	Microcrystalline silicon for solar cells deposited at high rates by hot-wire CVD. <i>Thin Solid Films</i> , 2003 , 430, 212-215	2.2	18
288	Using computer modeling analysis in single junction a-SiGe:H p ⁺ solar cells. <i>Journal of Applied Physics</i> , 2002 , 91, 2409-2416	2.5	18
287	Interpretation of the silicon-hydrogen stretching doublet in a-Si:H hydrogenated amorphous silicon. <i>Applied Physics Letters</i> , 1994 , 65, 204-206	3.4	18

286	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
285	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
284	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
283	Nanostructured thin films for multiband-gap silicon triple junction solar cells. <i>Thin Solid Films</i> , 2008 , 516, 6818-6823	2.2	17
282	Amorphous and microcrystalline silicon tandem cells with high open-circuit voltage. <i>Solar Energy Materials and Solar Cells</i> , 2005 , 87, 251-259	6.4	17
281	Ultrafast vibrational dynamics and stability of deuterated amorphous silicon. <i>Physical Review Letters</i> , 2002 , 89, 125504	7.4	17
280	Defect and Band Gap Engineering of Amorphous Silicon Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 1993 , 297, 797		17
279	Improving tunneling junction in amorphous silicon tandem solar cells. <i>Applied Physics Letters</i> , 1990 , 56, 1871-1873	3.4	17
278	Thin film silicon modules on plastic superstrates. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2381-2385	3.9	16
277	Improved stability of intrinsic nanocrystalline Si thin films deposited by hot-wire chemical vapour deposition technique. <i>Thin Solid Films</i> , 2007 , 515, 8040-8044	2.2	16
276	All hot wire CVD TFTs with high deposition rate silicon nitride (3 nm/s). <i>Solid-State Electronics</i> , 2008 , 52, 427-431	1.7	16
275	Internal structure of mixed phase hydrogenated silicon thin films made at 39°C. <i>Applied Physics Letters</i> , 2006 , 89, 051922	3.4	16
274	Mechanism of Shunting of Nanocrystalline Silicon Solar Cells Deposited on Rough Ag/ZnO Substrates. <i>Solid State Phenomena</i> , 2007 , 131-133, 27-32	0.4	16
273	Transport in tunneling recombination junctions: A combined computer simulation study. <i>Journal of Applied Physics</i> , 2004 , 96, 7289-7299	2.5	16
272	Deposition of HWCVD poly-Si films at a high growth rate. <i>Thin Solid Films</i> , 2003 , 430, 67-72	2.2	16
271	Hot-wire amorphous silicon thin-film transistors on glass. <i>Thin Solid Films</i> , 2001 , 383, 125-128	2.2	16
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