

Lambertz Andreas

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.

81
papers

2,149
citations

22
h-index

45
g-index

90
ext. papers

2,381
ext. citations

5.9
avg, IF

4.42
L-index

#	Paper	IF	Citations
81	Effect of oxygen and hydrogen flow ratio on indium tin oxide films in rear-junction silicon heterojunction solar cells. <i>Solar Energy</i> , 2022 , 231, 578-585	6.8	1
80	Light-induced performance of SHJ solar modules under 2000 h illumination. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 235, 111459	6.4	1
79	The Impact of Reflectance Variation in Silicon Heterojunction Solar Cells and Modules on the Perception of Color Differences. <i>IEEE Journal of Photovoltaics</i> , 2021 , 11, 306-311	3.7	
78	A silicon carbide-based highly transparent passivating contact for crystalline silicon solar cells approaching efficiencies of 24%. <i>Nature Energy</i> , 2021 , 6, 529-537	62.3	29
77	Transparent-conductive-oxide-free front contacts for high-efficiency silicon heterojunction solar cells. <i>Joule</i> , 2021 , 5, 1535-1547	27.8	9
76	Low-resistivity p-type a-Si:H/AZO hole contact in high-efficiency silicon heterojunction solar cells. <i>Applied Surface Science</i> , 2021 , 542, 148749	6.7	8
75	Influence of Oxygen on Sputtered Titanium-Doped Indium Oxide Thin Films and Their Application in Silicon Heterojunction Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2000501	7.1	6
74	Improved Infrared Light Management with Transparent Conductive Oxide/Amorphous Silicon Back Reflector in High-Efficiency Silicon Heterojunction Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2000576	7.1	6
73	Function Analysis of the Phosphine Gas Flow for n-Type Nanocrystalline Silicon Oxide Layer in Silicon Heterojunction Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 7544-7551	6.1	1
72	Phosphorus Catalytic Doping on Intrinsic Silicon Thin Films for the Application in Silicon Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 56615-56621	9.5	2
71	Development of Conductive SiC:H as a New Hydrogenation Technique for Tunnel Oxide Passivating Contacts. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 29986-29992	9.5	1
70	Front contact optimization for rear-junction SHJ solar cells with ultra-thin n-type nanocrystalline silicon oxide. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 209, 110471	6.4	19
69	Improved tissue integration of a new elastic intraperitoneal stoma mesh prosthesis. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 2250-2257	3.5	
68	Optimization of Transparent Passivating Contact for Crystalline Silicon Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2020 , 10, 46-53	3.7	11
67	Influence of Room Temperature Sputtered Al-Doped Zinc Oxide on Passivation Quality in Silicon Heterojunction Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 1485-1491	3.7	9
66	Improved biocompatibility of profiled sutures through lower macrophages adhesion. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 1772-1778	3.5	6
65	Porcine-derived biomaterials in tissue engineering and reconstructive surgery: Considerations and alternatives in Muslim patients. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019 , 13, 253-260	4.4	0

64	Versatility of doped nanocrystalline silicon oxide for applications in silicon thin-film and heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 174, 196-201	6.4	36
63	Development of a Transparent Passivated Contact as a Front Side Contact for Silicon Heterojunction Solar Cells 2018 ,		5
62	Application of Room Temperature Sputtered Al-doped Zinc Oxide in Silicon Heterojunction Solar Cells 2018 ,		1
61	Temperature and hydrogen diffusion length in hydrogenated amorphous silicon films on glass while scanning with a continuous wave laser at 532 nm wavelength. <i>Journal of Applied Physics</i> , 2018 , 124, 153103	2.5	4
60	Biocompatibility and biomechanical analysis of elastic TPU threads as new suture material. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 99-106	3.5	21
59	Analysis of parasitic losses due to intermediate reflectors in silicon tandem solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 163, 185-190	6.4	3
58	Photovoltaics: Nanoengineered Materials and Their Functionality in Solar Cells 2017 , 181-206		1
57	Post-deposition catalytic-doping of microcrystalline silicon thin layer for application in silicon heterojunction solar cell. <i>Thin Solid Films</i> , 2017 , 635, 63-65	2.2	5
56	Selective Dry Etching of p-Type Si Films for Photolithography Processing of Interdigitated Back Contact Silicon Heterojunction Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2017 , 7, 1292-1297	3.7	3
55	Light-induced degradation of adapted quadruple junction thin film silicon solar cells for photoelectrochemical water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 145, 142-147	6.4	26
54	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> , 2016 , 9, 145-154	35.4	107
53	High Stabilized Efficiency Single and Multi-junction Thin Film Silicon Solar Cells. <i>Energy Procedia</i> , 2016 , 102, 64-69	2.3	6
52	Elastic mesh with thermoplastic polyurethane filaments preserves effective porosity of textile implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 2654-60	5.4	13
51	Influence of gentamicin-coded PVDF suture material on the healing of intestinal anastomosis in a rat model. <i>International Journal of Colorectal Disease</i> , 2015 , 30, 1571-80	3	1
50	Polyvinylidene Fluoride as a Suture Material: Evaluation of Comet Tail-Like Infiltrate and Foreign Body Granuloma. <i>European Surgical Research</i> , 2015 , 55, 1-11	1.1	18
49	Preparation and measurement of highly efficient a-Si:H single junction solar cells and the advantages of β -SiO _x :H n-layers. <i>Progress in Photovoltaics: Research and Applications</i> , 2015 , 23, 939-948	6.8	37
48	Novel interconnection scheme for thin-film silicon solar modules with conductive intermediate reflector. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 103-107	2.5	2
47	Electronic and Structural Properties of N-Type Microcrystalline Silicon Oxide (Mc-SiO _x :H) Films for Applications in Thin Film Silicon Solar Cells. <i>Energy Procedia</i> , 2015 , 84, 71-77	2.3	5

46	Impact of doped microcrystalline silicon oxide layers on crystalline silicon surface passivation. <i>Canadian Journal of Physics</i> , 2014 , 92, 758-762	1.1	7
45	Laser-induced drug release for local tumor control--a proof of concept. <i>Journal of Surgical Research</i> , 2014 , 192, 312-6	2.5	8
44	p- and n-type microcrystalline silicon oxide (μ -SiO _x :H) for applications in thin film silicon tandem solar cells. <i>Canadian Journal of Physics</i> , 2014 , 92, 932-935	1.1	21
43	Bifacial microcrystalline silicon solar cells with improved performance due to μ -SiO _x :H doped layers. <i>Canadian Journal of Physics</i> , 2014 , 92, 913-916	1.1	5
42	Optical and Electrical Effects of p-type μ -SiO _x :H in Thin-Film Silicon Solar Cells on Various Front Textures. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-10	2.1	5
41	Advancing tandem solar cells by spectrally selective multilayer intermediate reflectors. <i>Optics Express</i> , 2014 , 22 Suppl 5, A1270-7	3.3	20
40	Development of Thin Film Amorphous Silicon Tandem Junction Based Photocathodes Providing High Open-Circuit Voltages for Hydrogen Production. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-10	2.1	36
39	Novel series connection concept for thin film solar modules. <i>Progress in Photovoltaics: Research and Applications</i> , 2013 , 21, 972-979	6.8	10
38	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> , 2013 , 21, 1672-1681	6.8	62
37	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
36	Thin-film silicon solar cells applying optically decoupled back reflectors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 645-650	3.1	9
35	Microcrystalline silicon absorber layers prepared at high deposition rates for thin-film tandem solar cells. <i>EPJ Photovoltaics</i> , 2013 , 4, 45201	0.7	2
34	Spectrally selective intermediate reflectors for tandem thin-film silicon solar cells 2013 ,		4
33	Microcrystalline silicon oxide (μ -SiO _x :H) alloys: A versatile material for application in thin film silicon single and tandem junction solar cells. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1954-1957	3.9	43
32	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
31	Characterization and simulation of a-Si:H/ μ -Si:H tandem solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 3318-3327	6.4	74
30	Tension of knotted surgical sutures shows tissue specific rapid loss in a rodent model. <i>BMC Surgery</i> , 2011 , 11, 36	2.3	24
29	Hydrogenated amorphous silicon oxide containing a microcrystalline silicon phase and usage as an intermediate reflector in thin-film silicon solar cells. <i>Journal of Applied Physics</i> , 2011 , 109, 113109	2.5	98

28	N-type Microcrystalline Silicon Oxide (μ -SiOx:H) Window Layers with Combined Anti-reflection Effects for n-i-p Thin Film Silicon Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1245, 1		2
27	3D photonic crystals for photon management in solar cells 2010 ,		1
26	The effect of aging on the dark conductivity and 1/f noise in hydrogenated microcrystalline silicon thin films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		1
25	Microcrystalline silicon n-i-p solar cells prepared with microcrystalline silicon oxide (μ -SiOx:H) n-layer. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		28
24	Window layer development for microcrystalline silicon solar cells in n-i-p configuration. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		10
23	Defects and structure of μ c-SiOx:H deposited by PECVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		7
22	N-type hydrogenated amorphous silicon oxide containing a microcrystalline silicon phase as an intermediate reflector in silicon thin film solar cells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010 , 7, NA-NA		12
21	Oxygen and nitrogen impurities in microcrystalline silicon deposited under optimized conditions: Influence on material properties and solar cell performance. <i>Journal of Applied Physics</i> , 2009 , 105, 074509 ⁵		37
20	Electrical detection of electron spin resonance in microcrystalline silicon pin solar cells. <i>Philosophical Magazine</i> , 2009 , 89, 2655-2676	1.6	13
19	Improved homogeneity of microcrystalline absorber layer in thin-film silicon tandem solar cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 159-160, 44-47 ^{3.1}		18
18	Performance of superstrate multijunction amorphous silicon-based solar cells using optical layers for current management. <i>Solar Energy Materials and Solar Cells</i> , 2009 , 93, 973-975	6.4	7
17	Structure of the ESR spectra of thin film silicon after electron bombardment. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 2329-2332	3.9	5
16	A constructive combination of antireflection and intermediate-reflector layers for a-Si μ -Si thin film solar cells. <i>Applied Physics Letters</i> , 2008 , 92, 053509	3.4	59
15	3D photonic crystal intermediate reflector for micromorph thin-film tandem solar cell. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 2796-2810	1.6	67
14	Electron spin resonance in thin film silicon after low temperature electron irradiation. <i>Thin Solid Films</i> , 2007 , 515, 7513-7516	2.2	7
13	Electron spin resonance studies of microcrystalline and amorphous silicon irradiated with high energy electrons. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 1020-1023	3.9	16
12	Microcrystalline silicon solar cells deposited at high rates. <i>Journal of Applied Physics</i> , 2005 , 97, 114913	2.5	152
11	Determination of the optical properties of non-uniformly thick non-hydrogenated sputtered silicon thin films on glass. <i>Thin Solid Films</i> , 2004 , 460, 247-255	2.2	17

10	Conductance fluctuations in VHF-PECVD grown hydrogenated microcrystalline silicon thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2003 , 14, 731-732	2.1	1
9	Changes in electric and optical properties of intrinsic microcrystalline silicon upon variation of the structural composition. <i>Journal of Non-Crystalline Solids</i> , 2002 , 299-302, 772-777	3.9	27
8	Thickness dependence of microcrystalline silicon solar cell properties. <i>Solar Energy Materials and Solar Cells</i> , 2001 , 66, 345-351	6.4	57
7	Spin Density and Conductivity in Thin Silicon Films upon Transition from Microcrystalline to Amorphous Growth. <i>Physica Status Solidi A</i> , 2001 , 186, R4-R6		18
6	Development of highly efficient thin film silicon solar cells on texture-etched zinc oxide-coated glass substrates. <i>Solar Energy Materials and Solar Cells</i> , 2001 , 66, 275-281	6.4	81
5	N-side illuminated microcrystalline silicon solar cells. <i>Applied Physics Letters</i> , 2001 , 79, 2841-2843	3.4	18
4	Measurement of Impurity Profiles in Microcrystalline Silicon Solar Cells by SIMS. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 609, 1351		
3	Intrinsic microcrystalline silicon: A new material for photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2000 , 62, 97-108	6.4	507
2	Role of bandgap grading for the performance of a-SiGe:H based solar cells 1996 ,		4
1	How Thin Practical Silicon Heterojunction Solar Cells Could Be? Experimental Study under 1 Sun and under Indoor Illumination. <i>Solar Rrl</i> , 2100594	7.1	1