

# Nicolas Wyrsh

## List of Publications by Citations

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44  
papers

1,893  
citations

15  
h-index

43  
g-index

45  
ext. papers

2,158  
ext. citations

6  
avg. IF

4.42  
L-index

#	Paper	IF	Citations
44	Photovoltaic technology: the case for thin-film solar cells. <i>Science</i> , <b>1999</b> , 285, 692-8	33.3	968
43	Influence of plasma excitation frequency for a-Si:H thin film deposition. <i>Plasma Chemistry and Plasma Processing</i> , <b>1987</b> , 7, 267-273	3.6	154
42	High-rate deposition of amorphous hydrogenated silicon: effect of plasma excitation frequency. <i>Electronics Letters</i> , <b>1987</b> , 23, 228-230	1.1	127
41	Review: Progress in solar cells from hydrogenated amorphous silicon. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 76, 1497-1523	16.2	95
40	Nanocrystalline Silicon Carrier Collectors for Silicon Heterojunction Solar Cells and Impact on Low-Temperature Device Characteristics. <i>IEEE Journal of Photovoltaics</i> , <b>2016</b> , 6, 1654-1662	3.7	61
39	Mobility lifetime product: A tool for correlating a-Si:H film properties and solar cell performances. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 9361-9368	2.5	60
38	The impact of silicon solar cell architecture and cell interconnection on energy yield in hot & sunny climates. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1196-1206	35.4	49
37	Hole drift mobility in $\mu$ -Si:H. <i>Journal of Applied Physics</i> , <b>2001</b> , 89, 4971-4974	2.5	40
36	Techno-economic analysis of battery storage and curtailment in a distribution grid with high PV penetration. <i>Journal of Energy Storage</i> , <b>2018</b> , 17, 73-83	7.8	33
35	Ambipolar diffusion length and photoconductivity measurements on $\mu$ idgap $\mu$ hydrogenated microcrystalline silicon. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 5111-5115	2.5	29
34	Plastic and elastic strain fields in GaAs/Si core-shell nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 1859-64	11.5	28
33	Control algorithm for a residential photovoltaic system with storage. <i>Applied Energy</i> , <b>2017</b> , 202, 78-87	10.7	25
32	Evaluation of building technology for mass producible millimetre-sized robots using flexible printed circuit boards. <i>Journal of Micromechanics and Microengineering</i> , <b>2009</b> , 19, 075011	2	25
31	Radiation hardness of amorphous silicon particle sensors. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1797-1800	3.9	20
30	Subbandgap absorption spectra of slightly doped a-Si:H measured with constant photocurrent method (CPM) and photothermal deflection spectroscopy (PDS). <i>Solid State Communications</i> , <b>1993</b> , 85, 219-222	1.6	19
29	Hybrid axial and radial Si-GaAs heterostructures in nanowires. <i>Nanoscale</i> , <b>2013</b> , 5, 9633-9	7.7	15
28	Unsupervised algorithm for disaggregating low-sampling-rate electricity consumption of households. <i>Sustainable Energy, Grids and Networks</i> , <b>2019</b> , 19, 100244	3.6	13

27	Review of amorphous silicon based particle detectors: the quest for single particle detection. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 103005	1.8	13
26	Rule-based scheduling of air conditioning using occupancy forecasting. <i>Energy and AI</i> , <b>2020</b> , 2, 100022	12.6	13
25	Deep reinforcement learning control of electric vehicle charging in the presence of photovoltaic generation. <i>Applied Energy</i> , <b>2021</b> , 301, 117504	10.7	11
24	Hydrogenated Amorphous Silicon Sensor Deposited on Integrated Circuit for Radiation Detection. <i>IEEE Transactions on Nuclear Science</i> , <b>2008</b> , 55, 802-811	1.7	10
23	Field test and electrode optimization of electrodynamic cleaning systems for solar panels. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2019</b> , 27, 1020-1033	6.8	8
22	Fabrication and characterization of monolithically integrated microchannel plates based on amorphous silicon. <i>Scientific Reports</i> , <b>2014</b> , 4, 4597	4.9	8
21	Optimised Heat Pump Management for Increasing Photovoltaic Penetration into the Electricity Grid. <i>Energies</i> , <b>2019</b> , 12, 1571	3.1	7
20	Amorphous silicon-based microchannel plates. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2012</b> , 695, 74-77	1.2	7
19	Mitigating the impact of distributed PV in a low-voltage grid using electricity tariffs. <i>Electric Power Systems Research</i> , <b>2020</b> , 189, 106763	3.5	7
18	FEEdBACK: An ICT-Based Platform to Increase Energy Efficiency through Buildings Consumer Engagement. <i>Energies</i> , <b>2021</b> , 14, 1524	3.1	6
17	Charge collection in amorphous silicon solar cells: Cell analysis and simulation of high-efficiency pin devices. <i>Journal of Non-Crystalline Solids</i> , <b>2012</b> , 358, 2187-2189	3.9	5
16	Limits of the Constant Photocurrent Method (CPM) for the determination of the deep defect density in amorphous hydrogenated silicon (a-Si:H). <i>Journal of Non-Crystalline Solids</i> , <b>1993</b> , 164-166, 427-430	3.9	5
15	Drift mobility and Staebler-Wronski effect in hydrogenated amorphous silicon. <i>Solid State Communications</i> , <b>1991</b> , 80, 807-809	1.6	5
14	Modeling a Thick Hydrogenated Amorphous Silicon Substrate for Ionizing Radiation Detectors. <i>Frontiers in Physics</i> , <b>2020</b> , 8,	3.9	4
13	Micro-Channel Plate Detectors Based on Hydrogenated Amorphous Silicon. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1245, 1		4
12	High Spatial Resolution of Thin-Film-on-ASIC Particle Detectors. <i>IEEE Transactions on Nuclear Science</i> , <b>2012</b> , 59, 2614-2621	1.7	3
11	THE GRIDPIX DETECTOR: HISTORY AND PERSPECTIVE. <i>Modern Physics Letters A</i> , <b>2013</b> , 28, 1340021	1.3	3
10	A highly sensitive a-Si photodetector array with integrated filter for optical detection in MEMS. <i>Procedia Chemistry</i> , <b>2009</b> , 1, 1367-1370		3

9	Performance and Transient Behavior of Vertically Integrated Thin-film Silicon Sensors. <i>Sensors</i> , <b>2008</b> , 8, 4656-4668	3.8	3
8	Deep defect determination by the constant photocurrent method (CPM) in annealed or light soaked amorphous hydrogenated silicon ( $\alpha$ -Si:H). <i>Solar Energy Materials and Solar Cells</i> , <b>1994</b> , 34, 533-539	6.4	2
7	Real-World Implementation of an ICT-Based Platform to Promote Energy Efficiency. <i>Energies</i> , <b>2021</b> , 14, 2416	3.1	2
6	Micro Photovoltaic Modules for Micro Systems. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1066, 1		1
5	A Blockchain-Supported Framework for Charging Management of Electric Vehicles. <i>Energies</i> , <b>2021</b> , 14, 7144	3.1	1
4	A 3D indicator for guiding AI applications in the energy sector. <i>Energy and AI</i> , <b>2022</b> , 9, 100167	12.6	1
3	Fabrication of a Hydrogenated Amorphous Silicon Detector in 3-D Geometry and Preliminary Test on Planar Prototypes. <i>Instruments</i> , <b>2021</b> , 5, 32	1.2	0
2	Routing of Electric Vehicles With Intermediary Charging Stations: A Reinforcement Learning Approach. <i>Frontiers in Big Data</i> , <b>2021</b> , 4, 586481	2.8	0
1	Photovoltaic power generation. <i>Plasma Physics and Controlled Fusion</i> , <b>1992</b> , 34, 1837-1844	2	