

# paola Delli Veneri

## List of Publications by Citations

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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.

64

papers

788

citations

16

h-index

26

g-index

70

ext. papers

883

ext. citations

3.7

avg, IF

3.93

L-index

#	Paper	IF	Citations
64	Silicon oxide based n-doped layer for improved performance of thin film silicon solar cells. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 023512	3.4	84
63	Nanosphere lithography for optical fiber tip nanoprobes. <i>Light: Science and Applications</i> , <b>2017</b> , 6, e16229	16.7	74
62	SWCNT nano-composite optical sensors for VOC and gas trace detection. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 138, 351-361	8.5	66
61	Thin film silicon photovoltaics: Architectural perspectives and technological issues. <i>Applied Energy</i> , <b>2009</b> , 86, 1836-1844	10.7	58
60	Improved micromorph solar cells by means of mixed-phase n-doped silicon oxide layers. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2013</b> , 21, 148-155	6.8	41
59	First and second-order Raman scattering in Si nanostructures within silicon nitride. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 153112	3.4	33
58	Self-organized broadband light trapping in thin film amorphous silicon solar cells. <i>Nanotechnology</i> , <b>2013</b> , 24, 225201	3.4	25
57	Properties of mixed phase n-doped silicon oxide layers and application in micromorph solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 119, 67-72	6.4	24
56	PECVD in-situ growth of silicon quantum dots in silicon nitride from silane and nitrogen. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2009</b> , 159-160, 77-79	3.1	24
55	Combined effect of double antireflection coating and reversible molecular doping on performance of few-layer graphene/n-silicon Schottky barrier solar cells. <i>Solar Energy</i> , <b>2016</b> , 127, 198-205	6.8	21
54	Charge transfer effects on the sensing properties of fiber optic chemical nano-sensors based on single-walled carbon nanotubes. <i>Carbon</i> , <b>2009</b> , 47, 782-788	10.4	21
53	Deposition pressure effects on material structure and performance of micromorph tandem solar cells. <i>Renewable Energy</i> , <b>2008</b> , 33, 42-47	8.1	21
52	Doped SiO <sub>x</sub> emitter layer in amorphous/crystalline silicon heterojunction solar cell. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 115, 705-712	2.6	18
51	Light trapping efficiency of periodic and quasiperiodic back-reflectors for thin film solar cells: A comparative study. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 063103	2.5	18
50	Effects of different graphene dopants on double antireflection coatings/graphene/n-silicon heterojunction solar cells. <i>Thin Solid Films</i> , <b>2018</b> , 646, 21-27	2.2	17
49	VHF PECVD microcrystalline silicon: from material to solar cells. <i>Thin Solid Films</i> , <b>2004</b> , 451-452, 269-273	2.2	16
48	Graphene as non conventional transparent conductive electrode in silicon heterojunction solar cells. <i>Applied Surface Science</i> , <b>2020</b> , 525, 146443	6.7	15

47	The Role of Graphene-Based Derivative as Interfacial Layer in Graphene/n-Si Schottky Barrier Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1800555	1.6	15
46	Potentials of mixed-phase doped layers in p-type Si heterojunction solar cells with ZnO:Al. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 169, 113-121	6.4	14
45	Annealing effects on PECVD-grown Si rich . <i>Energy Procedia</i> , <b>2010</b> , 2, 159-164	2.3	14
44	Photoluminescence properties of partially phase separated silicon nitride films. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 093512	2.5	11
43	Correlation between structural properties and performances of microcrystalline silicon solar cells. <i>Thin Solid Films</i> , <b>2005</b> , 487, 174-178	2.2	11
42	Advances in Thin-Film Si Solar Cells by Means of SiOx Alloys. <i>Energies</i> , <b>2016</b> , 9, 218	3.1	11
41	Broadband near-field effects for improved thin film Si solar cells on randomly textured substrates. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 112, 163-167	6.4	10
40	Metal versus dielectric back reflector for thin-film Si solar cells with impact of front electrode surface texture. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2016</b> , 24, 968-977	6.8	9
39	Focused ion beam strategy for nanostructure milling in doped silicon oxide layer for light trapping applications. <i>Vacuum</i> , <b>2014</b> , 99, 135-142	3.7	8
38	Structural and optical properties of silicon quantum dots in silicon nitride grown in situ by PECVD using different gas precursors. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2009</b> , 159-160, 74-76	3.1	8
37	Impedance Spectroscopy for the Characterization of the All-Carbon Graphene-Based Solar Cell. <i>Energies</i> , <b>2020</b> , 13, 1908	3.1	7
36	Optical Performance of Ag-based Back Reflectors with different Spacers in Thin Film Si Solar Cells. <i>Energy Procedia</i> , <b>2015</b> , 84, 221-227	2.3	7
35	Influence of microcrystalline silicon bottom cell on micromorph tandem solar cell performance. <i>Thin Solid Films</i> , <b>2008</b> , 516, 6979-6983	2.2	7
34	RFID tag for vegetable ripening evaluation using an auxiliary smart gas sensor <b>2014</b> ,		6
33	ZnO nanorods/AZO photoanode for perovskite solar cells fabricated in ambient air. <i>Materials Research Express</i> , <b>2017</b> , 4, 085025	1.7	6
32	Improvement of NO <sub>2</sub> Detection: Graphene Decorated With ZnO Nanoparticles. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 8751-8757	4	5
31	TCO Optimization in Si Heterojunction Solar Cells on p-type Wafers with n-SiOx Emitter. <i>Energy Procedia</i> , <b>2015</b> , 84, 134-140	2.3	5
30	Laser-assisted chemical vapor deposition of thick poly-Si layers for solar cells. <i>Thin Solid Films</i> , <b>2002</b> , 403-404, 302-306	2.2	5

29	Properties of Poly-Si Obtained by Solid Phase Crystallization of Differently Produced a:Si:H Thin Films. <i>Solid State Phenomena</i> , <b>1999</b> , 67-68, 199-204	0.4	5
28	Interfacial electronic features in methyl-ammonium lead iodide and p-type oxide heterostructures: new insights for inverted perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 28401-28413	3.6	5
27	Evaporated MoOx as General Back-Side Hole Collector for Solar Cells. <i>Coatings</i> , <b>2020</b> , 10, 763	2.9	5
26	Changes of hydrogen evolution thermodynamics induced by He and H2 dilution in PECVD a-Si:H films: influence on thermal crystallization. <i>Journal of Non-Crystalline Solids</i> , <b>2000</b> , 266-269, 635-639	3.9	4
25	Silicon solar cells: materials, technologies, architectures <b>2020</b> , 35-57		4
24	Fabrication and characterization of nanoscale n-channel (PDI8-CN2) organic two-terminal planar devices. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	3
23	Plasmonic Light Trapping in Thin-Film Solar Cells: Impact of Modeling on Performance Prediction. <i>Materials</i> , <b>2015</b> , 8, 3648-3670	3.5	3
22	Vocs Sensors Based on Polyaniline/Graphene-Nanosheets Bilayer. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 197-201	0.2	2
21	Auxiliary smart gas sensor prototype plugged in a rfid active tag for ripening evaluation <b>2015</b> ,		2
20	Self-Organized Nanoscale Roughness Engineering for Broadband Light Trapping in Thin Film Solar Cells. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 355	2.6	2
19	Light-management potential of dual-function n-SiO in the top junction of micromorph solar cells with different front electrodes. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 136, 32-37	6.4	2
18	Application of Nd:YLF laser to amorphous silicon crystallization process. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2000</b> , 69-70, 227-231	3.1	2
17	Cold Wall CVD Graphene-Based Transparent Electrode for Solar Cells. <i>Key Engineering Materials</i> , <b>2019</b> , 813, 310-315	0.4	1
16	Tinynose, an Auxiliary Smart Gas Sensor for RFID Tag in Vegetables Ripening Monitoring During Refrigerated Cargo Transport. <i>Lecture Notes in Electrical Engineering</i> , <b>2015</b> , 217-221	0.2	1
15	MoOx as hole-selective collector in p-type Si heterojunction solar cells <b>2018</b> ,		1
14	P-type SiOx front emitters for Si heterojunction solar cells <b>2019</b> ,		1
13	Hybrid a-Si/nc-Si solar cells fabricated on a directly-deposited textured zinc oxide transparent conductor <b>2009</b> ,		1
12	Influence of deposition conditions for bottom cell on micromorph tandem device performance. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 2478-2482	3.9	1

11	Amorphous/porous heterojunction on thin microcrystalline silicon. <i>Journal of Non-Crystalline Solids</i> , <b>2000</b> , 266-269, 1044-1048	3.9	1
10	Monolithic Perovskite/Silicon-Heterojunction Tandem Solar Cells with Nanocrystalline Si/SiO <sub>x</sub> Tunnel Junction. <i>Energies</i> , <b>2021</b> , 14, 7684	3.1	1
9	The effect of storage cycle on improvement in the photovoltaic parameters of planar triple cation perovskite solar cells. <i>Materials Advances</i> , <b>2021</b> , 2, 5396-5405	3.3	1
8	Outstanding NO <sub>2</sub> Sensing Performance of Sensors Based on TiO <sub>2</sub> /Graphene Hybrid. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 349-355	0.2	0
7	Effect of bottom cell properties on micromorph tandem device performance. <i>Philosophical Magazine</i> , <b>2009</b> , 89, 2645-2654	1.6	
6	Laser treatment of amorphous silicon junction field effect transistor channel. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 299-302, 1326-1329	3.9	
5	Development of SnO <sub>2</sub> Composites as Electron Transport Layer in Unencapsulated CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Solar Cells. <i>Solids</i> , <b>2021</b> , 2, 407-419	0	
4	Impedance Spectroscopy Characterization of a Graphene-Based Solar Cell with Improved Contacts. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 363-373	0.2	
3	Graphene Patterning via Photolithography. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 357-363	0.2	
2	Titanium Dioxide Doped Graphene for Ethanol Detection at Room Temperature. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 107-112	0.2	
1	Forward bias capacitance investigation as a powerful tool to monitor graphene/silicon interfaces. <i>Solar Energy</i> , <b>2021</b> , 226, 1-8	6.8	