paola Delli Veneri

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.

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	Development of SnO2 Composites as Electron Transport Layer in Unencapsulated CH3NH3PbI3 Solar Cells. *Solids*, **2021**, 2, 407-419	0	
63	Monolithic Perovskite/Silicon-Heterojunction Tandem Solar Cells with Nanocrystalline Si/SiOx Tunnel Junction. *Energies*, **2021**, 14, 7684	3.1	1
62	Titanium Dioxide Doped Graphene for Ethanol Detection at Room Temperature. *Lecture Notes in Electrical Engineering*, **2021**, 107-112	0.2	
61	Forward bias capacitance investigation as a powerful tool to monitor graphene/silicon interfaces. *Solar Energy*, **2021**, 226, 1-8	6.8	
60	The effect of storage cycle on improvement in the photovoltaic parameters of planar triple cation perovskite solar cells. *Materials Advances*, **2021**, 2, 5396-5405	3.3	1
59	Graphene as non conventional transparent conductive electrode in silicon heterojunction solar cells. *Applied Surface Science*, **2020**, 525, 146443	6.7	15
58	Impedance Spectroscopy for the Characterization of the All-Carbon Graphene-Based Solar Cell. *Energies*, **2020**, 13, 1908	3.1	7
57	Outstanding NO2 Sensing Performance of Sensors Based on TiO2/Graphene Hybrid. *Lecture Notes in Electrical Engineering*, **2020**, 349-355	0.2	0
56	Impedance Spectroscopy Characterization of a Graphene-Based Solar Cell with Improved Contacts. *Lecture Notes in Electrical Engineering*, **2020**, 363-373	0.2	
55	Graphene Patterning via Photolithography. *Lecture Notes in Electrical Engineering*, **2020**, 357-363	0.2	
54	Silicon solar cells: materials, technologies, architectures **2020**, 35-57		4
53	Interfacial electronic features in methyl-ammonium lead iodide and p-type oxide heterostructures: new insights for inverted perovskite solar cells. *Physical Chemistry Chemical Physics*, **2020**, 22, 28401-28413	3.6	5
52	Evaporated MoOx as General Back-Side Hole Collector for Solar Cells. *Coatings*, **2020**, 10, 763	2.9	5
51	Cold Wall CVD Graphene-Based Transparent Electrode for Solar Cells. *Key Engineering Materials*, **2019**, 813, 310-315	0.4	1
50	Improvement of NO2 Detection: Graphene Decorated With ZnO Nanoparticles. *IEEE Sensors Journal* , **2019**, 19, 8751-8757	4	5
49	P-type SiOx front emitters for Si heterojunction solar cells **2019**,		1
48	The Role of Graphene-Based Derivative as Interfacial Layer in Graphene/n-Si Schottky Barrier Solar Cells. *Physica Status Solidi (A) Applications and Materials Science*, **2019**, 216, 1800555	1.6	15

47	MoOx as hole-selective collector in p-type Si heterojunction solar cells **2018**,		1
46	Effects of different graphene dopants on double antireflection coatings/graphene/n-silicon heterojunction solar cells. *Thin Solid Films*, **2018**, 646, 21-27	2.2	17
45	Nanosphere lithography for optical fiber tip nanoprobes. *Light: Science and Applications*, **2017**, 6, e16229	16.7	74
44	Potentials of mixed-phase doped layers in p-type Si heterojunction solar cells with ZnO:Al. *Solar Energy Materials and Solar Cells*, **2017**, 169, 113-121	6.4	14
43	Fabrication and characterization of nanoscale n-channel (PDI8-CN2) organic two-terminal planar devices. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	3
42	ZnO nanorods/AZO photoanode for perovskite solar cells fabricated in ambient air. *Materials Research Express*, **2017**, 4, 085025	1.7	6
41	Self-Organized Nanoscale Roughness Engineering for Broadband Light Trapping in Thin Film Solar Cells. *Applied Sciences (Switzerland)*, **2017**, 7, 355	2.6	2
40	Combined effect of double antireflection coating and reversible molecular doping on performance of few-layer graphene/n-silicon Schottky barrier solar cells. *Solar Energy*, **2016**, 127, 198-205	6.8	21
39	Advances in Thin-Film Si Solar Cells by Means of SiOx Alloys. *Energies*, **2016**, 9, 218	3.1	11
38	Metal versus dielectric back reflector for thin-film Si solar cells with impact of front electrode surface texture. *Progress in Photovoltaics: Research and Applications*, **2016**, 24, 968-977	6.8	9
37	Vocs Sensors Based on Polyaniline/Graphene-Nanosheets Bilayer. *Lecture Notes in Electrical Engineering*, **2015**, 197-201	0.2	2
36	Tinynose, an Auxiliary Smart Gas Sensor for RFID Tag in Vegetables Ripening Monitoring During Refrigerated Cargo Transport. *Lecture Notes in Electrical Engineering*, **2015**, 217-221	0.2	1
35	Auxiliary smart gas sensor prototype plugged in a rfid active tag for ripening evaluation **2015**,		2
34	TCO Optimization in Si Heterojunction Solar Cells on p-type Wafers with n-SiOx Emitter. *Energy Procedia*, **2015**, 84, 134-140	2.3	5
33	Plasmonic Light Trapping in Thin-Film Solar Cells: Impact of Modeling on Performance Prediction. *Materials*, **2015**, 8, 3648-3670	3.5	3
32	Optical Performance of Ag-based Back Reflectors with different Spacers in Thin Film Si Solar Cells. *Energy Procedia*, **2015**, 84, 221-227	2.3	7
31	Light-management potential of dual-function n-SiO in the top junction of micromorph solar cells with different front electrodes. *Solar Energy Materials and Solar Cells*, **2015**, 136, 32-37	6.4	2
30	Focused ion beam strategy for nanostructure milling in doped silicon oxide layer for light trapping applications. *Vacuum*, **2014**, 99, 135-142	3.7	8

29	Doped SiO x emitter layer in amorphous/crystalline silicon heterojunction solar cell. *Applied Physics A: Materials Science and Processing*, **2014**, 115, 705-712	2.6	18
28	RFID tag for vegetable ripening evaluation using an auxiliary smart gas sensor **2014**,		6
27	Improved micromorph solar cells by means of mixed-phase n-doped silicon oxide layers. *Progress in Photovoltaics: Research and Applications*, **2013**, 21, 148-155	6.8	41
26	Broadband near-field effects for improved thin film Si solar cells on randomly textured substrates. *Solar Energy Materials and Solar Cells*, **2013**, 112, 163-167	6.4	10
25	Properties of mixed phase n-doped silicon oxide layers and application in micromorph solar cells. *Solar Energy Materials and Solar Cells*, **2013**, 119, 67-72	6.4	24
24	Light trapping efficiency of periodic and quasiperiodic back-reflectors for thin film solar cells: A comparative study. *Journal of Applied Physics*, **2013**, 114, 063103	2.5	18
23	Self-organized broadband light trapping in thin film amorphous silicon solar cells. *Nanotechnology*, **2013**, 24, 225201	3.4	25
22	Photoluminescence properties of partially phase separated silicon nitride films. *Journal of Applied Physics*, **2011**, 109, 093512	2.5	11
21	Silicon oxide based n-doped layer for improved performance of thin film silicon solar cells. *Applied Physics Letters*, **2010**, 97, 023512	3.4	84
20	First and second-order Raman scattering in Si nanostructures within silicon nitride. *Applied Physics Letters*, **2010**, 97, 153112	3.4	33
19	Annealing effects on PECVD-grown Si rich . *Energy Procedia*, **2010**, 2, 159-164	2.3	14
18	Effect of bottom cell properties on micromorph tandem device performance. *Philosophical Magazine*, **2009**, 89, 2645-2654	1.6	
17	SWCNT nano-composite optical sensors for VOC and gas trace detection. *Sensors and Actuators B: Chemical*, **2009**, 138, 351-361	8.5	66
16	Thin film silicon photovoltaics: Architectural perspectives and technological issues. *Applied Energy*, **2009**, 86, 1836-1844	10.7	58
15	Structural and optical properties of silicon quantum dots in silicon nitride grown in situ by PECVD using different gas precursors. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2009**, 159-160, 74-76	3.1	8
14	PECVD in-situ growth of silicon quantum dots in silicon nitride from silane and nitrogen. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2009**, 159-160, 77-79	3.1	24
13	Charge transfer effects on the sensing properties of fiber optic chemical nano-sensors based on single-walled carbon nanotubes. *Carbon*, **2009**, 47, 782-788	10.4	21
12	Hybrid a-Si/nc-Si solar cells fabricated on a directly-deposited textured zinc oxide transparent conductor **2009**,		1

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11	Influence of deposition conditions for bottom cell on micromorph tandem device performance. *Journal of Non-Crystalline Solids*, **2008**, 354, 2478-2482	3.9	1
10	Deposition pressure effects on material structure and performance of micromorph tandem solar cells. *Renewable Energy*, **2008**, 33, 42-47	8.1	21
9	Influence of microcrystalline silicon bottom cell on micromorph tandem solar cell performance. *Thin Solid Films*, **2008**, 516, 6979-6983	2.2	7
8	Correlation between structural properties and performances of microcrystalline silicon solar cells. *Thin Solid Films*, **2005**, 487, 174-178	2.2	11
7	VHF PECVD microcrystalline silicon: from material to solar cells. *Thin Solid Films*, **2004**, 451-452, 269-273	2.2	16
6	Laser-assisted chemical vapor deposition of thick poly-Si layers for solar cells. *Thin Solid Films*, **2002**, 403-404, 302-306	2.2	5
5	Laser treatment of amorphous silicon junction field effect transistor channel. *Journal of Non-Crystalline Solids*, **2002**, 299-302, 1326-1329	3.9	
4	Application of Nd:YLF laser to amorphous silicon crystallization process. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2000**, 69-70, 227-231	3.1	2
3	Changes of hydrogen evolution thermodynamics induced by He and H2 dilution in PECVD a-Si:H films: influence on thermal crystallization. *Journal of Non-Crystalline Solids*, **2000**, 266-269, 635-639	3.9	4
2	Amorphous/porous heterojunction on thin microcrystalline silicon. *Journal of Non-Crystalline Solids*, **2000**, 266-269, 1044-1048	3.9	1
1	Properties of Poly-Si Obtained by Solid Phase Crystallization of Differently Produced a:Si:H Thin Films. *Solid State Phenomena*, **1999**, 67-68, 199-204	0.4	5