

Andr Santarosa Ferlauto

List of Publications by Citations

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100
papers

2,511
citations

25
h-index

48
g-index

104
ext. papers

2,786
ext. citations

4.9
avg, IF

4.4
L-index

#	Paper	IF	Citations
100	Analytical model for the optical functions of amorphous semiconductors from the near-infrared to ultraviolet: Applications in thin film photovoltaics. <i>Journal of Applied Physics</i> , 2002 , 92, 2424-2436	2.5	401
99	Evolution of microstructure and phase in amorphous, protocrystalline, and microcrystalline silicon studied by real time spectroscopic ellipsometry. <i>Solar Energy Materials and Solar Cells</i> , 2003 , 78, 143-180	6.4	263
98	Evolutionary phase diagrams for plasma-enhanced chemical vapor deposition of silicon thin films from hydrogen-diluted silane. <i>Applied Physics Letters</i> , 1999 , 75, 2286-2288	3.4	132
97	On the growth and electrical characterization of CuO nanowires by thermal oxidation. <i>Journal of Applied Physics</i> , 2009 , 106, 034303	2.5	122
96	Surface properties of oxidized and aminated multi-walled carbon nanotubes. <i>Journal of the Brazilian Chemical Society</i> , 2012 , 23, 1078-1086	1.5	77
95	Purity evaluation of carbon nanotube materials by thermogravimetric, TEM, and SEM methods. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3477-86	1.3	66
94	Oxidative desulfurization of dibenzothiophene over titanate nanotubes. <i>Fuel</i> , 2014 , 132, 53-61	7.1	64
93	Deformation induced semiconductor-metal transition in single wall carbon nanotubes probed by electric force microscopy. <i>Physical Review Letters</i> , 2008 , 100, 256804	7.4	57
92	Vapor-Solid-Solid Growth Mechanism Driven by Epitaxial Match between Solid AuZn Alloy Catalyst Particles and ZnO Nanowires at Low Temperatures. <i>Advanced Materials</i> , 2008 , 20, 1499-1504	24	54
91	Advances in plasma-enhanced chemical vapor deposition of silicon films at low temperatures. <i>Current Opinion in Solid State and Materials Science</i> , 2002 , 6, 425-437	12	54
90	Nafion-based composite electrolytes for proton exchange membrane fuel cells operating above 120°C with titania nanoparticles and nanotubes as fillers. <i>Journal of Power Sources</i> , 2011 , 196, 1061-1068	8.9	52
89	Nanostructured 3-D collagen/nanotube biocomposites for future bone regeneration scaffolds. <i>Nano Research</i> , 2009 , 2, 462-473	10	51
88	Self-assembled films of multi-wall carbon nanotubes used in gas sensors to increase the sensitivity limit for oxygen detection. <i>Carbon</i> , 2012 , 50, 1953-1958	10.4	48
87	Extended phase diagrams for guiding plasma-enhanced chemical vapor deposition of silicon thin films for photovoltaics applications. <i>Applied Physics Letters</i> , 2002 , 80, 2666-2668	3.4	45
86	Light Induced Defect Creation Kinetics in Thin Film Protocrystalline Silicon Materials and Their Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 715, 1341		45
85	Nafion-Titanate Nanotube Composite Membranes for PEMFC Operating at High Temperature. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B1358	3.9	42
84	Dependence of open-circuit voltage in hydrogenated protocrystalline silicon solar cells on carrier recombination in p/i interface and bulk regions. <i>Applied Physics Letters</i> , 2000 , 77, 3093-3095	3.4	42

83	Morphological and magnetic properties of carbon/nickel nanocomposite thin films. <i>Journal of Applied Physics</i> , 2005 , 97, 044313	2.5	41
82	Recent progress in thin film growth analysis by multichannel spectroscopic ellipsometry. <i>Applied Surface Science</i> , 2000 , 154-155, 217-228	6.7	38
81	Maximization of the open circuit voltage for hydrogenated amorphous silicon n/p solar cells by incorporation of protocrystalline silicon p-type layers. <i>Applied Physics Letters</i> , 2002 , 81, 1258-1260	3.4	36
80	Real time analysis of amorphous and microcrystalline silicon film growth by multichannel ellipsometry. <i>Thin Solid Films</i> , 2000 , 364, 129-137	2.2	36
79	Asymmetric effect of oxygen adsorption on electron and hole mobilities in bilayer graphene: long- and short-range scattering mechanisms. <i>ACS Nano</i> , 2013 , 7, 6597-604	16.7	28
78	Analytical model for the optical functions of amorphous semiconductors and its applications for thin film solar cells. <i>Thin Solid Films</i> , 2004 , 455-456, 388-392	2.2	28
77	Direct production of carbon nanotubes/metal nanoparticles hybrids from a redox reaction between metal ions and reduced carbon nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2104-6	9.5	27
76	Thermal properties of Nafion [®] /TiO ₂ composite electrolytes for PEM fuel cell. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 97, 591-594	4.1	25
75	Chemical vapor deposition of multi-walled carbon nanotubes from nickel/yttria-stabilized zirconia catalysts. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 84, 271-276	2.6	25
74	Gene expression and biochemical responses in brain of zebrafish <i>Danio rerio</i> exposed to organic nanomaterials: carbon nanotubes (SWCNT) and fullereneol (C ₆₀ (OH) ₁₈₋₂₂ (OK ₄)). <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2013 , 165, 460-7	2.6	24
73	Generation of reactive oxygen species in titanate nanotubes induced by hydrogen peroxide and their application in catalytic degradation of methylene blue dye. <i>Journal of Molecular Catalysis A</i> , 2014 , 394, 316-323		23
72	Calibration and data reduction for a UV-extended rotating-compensator multichannel ellipsometer. <i>Thin Solid Films</i> , 2004 , 455-456, 132-137	2.2	21
71	Evaluation of compositional depth profiles in mixed-phase (amorphous+crystalline) silicon films from real time spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2004 , 455-456, 665-669	2.2	21
70	Nafion [®] /titanate nanotubes composites prepared by in situ crystallization and casting for direct ethanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 1859-1867	6.7	20
69	Synthesis and characterization of SnO ₂ thin films prepared by dip-coating method. <i>Physics Procedia</i> , 2012 , 28, 22-27		20
68	In Situ Fabrication of Nafion [®] /titanate Hybrid Electrolytes for High-Temperature Direct Ethanol Fuel Cell. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 16863-16870	3.8	20
67	The role of hydrogen partial pressure on the annealing of copper substrates for graphene CVD synthesis. <i>Materials Research Express</i> , 2016 , 3, 045602	1.7	20
66	Neurotoxicity in zebrafish exposed to carbon nanotubes: Effects on neurotransmitters levels and antioxidant system. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2019 , 218, 30-35	3.2	19

65	Kinetics of silicon film growth and the deposition phase diagram. <i>Journal of Non-Crystalline Solids</i> , 2004 , 338-340, 13-18	3.9	18
64	Evolutionary phase diagrams for the deposition of silicon films from hydrogen-diluted silane. <i>Journal of Non-Crystalline Solids</i> , 2000 , 266-269, 43-47	3.9	18
63	Identification of the mechanism-limiting nitrogen diffusion in metallic alloys by in situ photoemission electron spectroscopy. <i>Journal of Applied Physics</i> , 2003 , 94, 5435	2.5	17
62	Modeling the dielectric functions of silicon-based films in the amorphous, nanocrystalline and microcrystalline regimes. <i>Journal of Non-Crystalline Solids</i> , 2000 , 266-269, 269-273	3.9	17
61	Applications of real-time and mapping spectroscopic ellipsometry for process development and optimization in hydrogenated silicon thin-film photovoltaics technology. <i>Solar Energy Materials and Solar Cells</i> , 2014 , 129, 32-56	6.4	16
60	Buckypapers of carbon nanotubes and cellulose nanofibrils: Foldable and flexible electrodes for redox supercapacitors. <i>Electrochimica Acta</i> , 2020 , 349, 136241	6.7	15
59	Thermal behavior of carbon nanotubes decorated with gold nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 105, 953-959	4.1	15
58	One-pot in situ photochemical synthesis of graphene oxide/gold nanorod nanocomposites for surface-enhanced Raman spectroscopy. <i>RSC Advances</i> , 2015 , 5, 46552-46557	3.7	14
57	Flash Sintering Samaria-Doped Ceria/Carbon Nanotube Composites. <i>Ceramics</i> , 2019 , 2, 64-73	1.7	13
56	Determination of the epitaxial growth of zinc oxide nanowires on sapphire by grazing incidence synchrotron x-ray diffraction. <i>Applied Physics Letters</i> , 2007 , 90, 181929	3.4	13
55	Study of the Amorphous-to-Microcrystalline Transition during Silicon Film Growth at Increased Rates: Extensions of the Evolutionary Phase Diagram. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 609, 221		13
54	Optics of textured amorphous silicon surfaces. <i>Journal of Non-Crystalline Solids</i> , 2000 , 266-269, 279-283	3.9	13
53	High-yield synthesis of bundles of double- and triple-walled carbon nanotubes on aluminum flakes. <i>Carbon</i> , 2018 , 133, 53-61	10.4	11
52	Graphene chemical vapor deposition at very low pressure: The impact of substrate surface self-diffusion in domain shape. <i>Applied Physics Letters</i> , 2014 , 105, 073104	3.4	11
51	Fabrication of gas nanosensors and microsensors via local anodic oxidation. <i>Langmuir</i> , 2009 , 25, 602-5	4	11
50	Protocrystalline Si:H p-type Layers for Maximization of the Open Circuit Voltage in a-Si:H n-i-p Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 715, 611		11
49	Monolayer and bilayer graphene on polydimethylsiloxane as a composite membrane for gas-barrier applications. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45521	2.9	10
48	Carbothermal reduction of the YSZ/In ₂ O ₃ solid oxide fuel cell anode precursor by carbon-based materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 97, 157-161	4.1	10

47	Mixed ionic-electronic conductivity in yttria-stabilized zirconia/carbon nanotube composites. <i>Applied Physics Letters</i> , 2007 , 91, 243107	3.4	10
46	Probing the Electronic Properties of Monolayer MoS ₂ via Interaction with Molecular Hydrogen. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800591	6.4	10
45	Real time spectroscopic ellipsometry for analysis and control of thin film polycrystalline semiconductor deposition in photovoltaics. <i>Thin Solid Films</i> , 2014 , 571, 442-446	2.2	9
44	Evolution of the Mobility Gap with Thickness in Hydrogen-Diluted Intrinsic Si:H Materials in the Phase Transition Region and Its Effect on p-i-n Solar Cell Characteristics. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 664, 1641		9
43	Influence of annealing temperature and Sn doping on the optical properties of hematite thin films determined by spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , 2016 , 119, 245104	2.5	9
42	New material for low-dose brachytherapy seeds: Xe-doped amorphous carbon films with post-growth neutron activated ¹²⁵ I. <i>Applied Radiation and Isotopes</i> , 2011 , 69, 118-21	1.7	8
41	Application of spectral and temporal weighted error functions for data analysis in real-time spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2004 , 455-456, 106-111	2.2	8
40	Phase Diagrams for the Optimization of rf Plasma Enhanced Chemical Vapor Deposition of a-Si:H: Variations in Plasma Power and Substrate Temperature. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 664, 541		8
39	Enhanced electrochemical activity using vertically aligned carbon nanotube electrodes grown on carbon fiber. <i>Materials Research</i> , 2011 , 14, 403-407	1.5	6
38	Hydrogen sensing in titanate nanotubes associated with modulation in protonic conduction. <i>Nanotechnology</i> , 2011 , 22, 235501	3.4	6
37	Real Time Optics of p-Type Microcrystalline Silicon Deposition on Specular and Textured ZnO-Coated Glass. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 609, 1961		6
36	Exsolution of Nickel Nanoparticles from Mixed-Valence Metal Oxides: A Quantitative Evaluation by Magnetic Measurements. <i>Particle and Particle Systems Characterization</i> , 2020 , 37, 1900472	3.1	5
35	Phase diagrams for Si:H film growth by plasma-enhanced chemical vapor deposition. <i>Journal of Non-Crystalline Solids</i> , 2002 , 299-302, 68-73	3.9	5
34	Mobility gap profiles in Si:H intrinsic layers prepared by H ₂ -dilution of SiH ₄ : effects on the performance of p-i-n solar cells. <i>Journal of Non-Crystalline Solids</i> , 2002 , 299-302, 1136-1141	3.9	5
33	Real Time Optics of Amorphous Silicon Solar Cellfabrication on Textured Tin-Oxide-Coated Glass. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 557, 719		5
32	Alumina coating for dispersion management in ultra-high Q microresonators. <i>APL Photonics</i> , 2020 , 5, 116107	5.2	5
31	Synthesis of silica nanowires by active oxidation of silicon substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 791-5	1.3	4
30	Co-Sputtered Carbon-Nickel Nanocomposite Thin Films. <i>Journal of Metastable and Nanocrystalline Materials</i> , 2004 , 20-21, 700-704	0.2	4

29	Optical Simulations of the Effects of Transparent Conducting Oxide Interface Layers on Amorphous Silicon Solar Cell Performance. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 664, 2461		4
28	A systematic study of multifunctional xTiO ₂ /(100-x)SiO ₂ thin films prepared by sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2019 , 89, 380-391	2.3	4
27	Influence of substrate on the structure of predominantly anatase TiO films grown by reactive sputtering.. <i>RSC Advances</i> , 2018 , 8, 7062-7071	3.7	3
26	Determination of the band alignment of multi-walled carbon nanotubes decorated with cadmium sulfide. <i>Applied Surface Science</i> , 2014 , 321, 283-288	6.7	3
25	Evolution of Crystallinity in Mixed-Phase (a+β)-Si:H as Determined by Real Time Spectroscopic Ellipsometry. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 762, 5101		3
24	Advances in multichannel ellipsometric techniques for in-situ and real-time characterization of thin films. <i>Thin Solid Films</i> , 2004 , 469-470, 38-46	2.2	3
23	Microcrystalline Silicon Tunnel Junctions for Amorphous Silicon-Based Multijunction Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 557, 579		3
22	Optimization of a-Si:H p-i-n solar cells through development of n-layer growth evolution diagram and large area mapping 2013 ,		2
21	Temperature dependence of the electrical properties of hydrogen titanate nanotubes. <i>Journal of Applied Physics</i> , 2014 , 116, 184307	2.5	2
20	On the elastic constants of amorphous carbon nitride. <i>Diamond and Related Materials</i> , 2008 , 17, 1850-1853	3.2	2
19	Structural properties of amorphous carbon nitride films prepared by ion beam assisted deposition. <i>Journal of Non-Crystalline Solids</i> , 2004 , 338-340, 486-489	3.9	2
18	Polymer Blend for Electrolyte and Electrode Coatings. <i>Macromolecular Symposia</i> , 2005 , 229, 160-167	0.8	2
17	Microstructurally engineered p-layers for obtaining high open-circuit voltages in a-Si:H n-i-p solar cells		2
16	The role of phase transitions between amorphous and microcrystalline silicon on the performance of protocrystalline Si:H solar cells		2
15	Real Time Characterization of Non-Ideal Surfaces and Thin Film Growth by Advanced Ellipsometric Spectroscopies. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 569, 43		2
14	A NEW METHOD FOR STUDYING SEMICONDUCTING SURFACES IN AIR BY SCANNING TUNNELING MICROSCOPY. <i>Modern Physics Letters B</i> , 1996 , 10, 1189-1195	1.6	2
13	Microstructure and Optical Functions of Transparent Conductors and their Impact on Collection in Amorphous Silicon Solar Cells. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 762, 1461		2
12	Room temperature observation of the correlation between atomic and electronic structure of graphene on Cu(110). <i>RSC Advances</i> , 2016 , 6, 98001-98009	3.7	2

11	Aerosol-Printed MoS Ink as a High Sensitivity Humidity Sensor.. <i>ACS Omega</i> , 2022 , 7, 9388-9396	3.9	2
10	Comparison of Phase Diagrams for vhf and rf Plasma-Enhanced Chemical Vapor Deposition of Si:H Films. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 808, 299		1
9	Thickness evolution of the microstructural and optical properties of Si:H films in the amorphous-to-microcrystalline phase transition region		1
8	Real time optics of p-type silicon deposition on specular and textured ZnO surfaces		1
7	From thin films to shaped platelets: effects of temperature gradient on SnS synthesis. <i>Thin Solid Films</i> , 2021 , 721, 138507	2.2	1
6	Process of production of CVD graphene membrane for desalination and water treatment: a review of experimental research results. <i>Brazilian Journal of Chemical Engineering</i> , 2021 , 38, 423-434	1.7	1
5	Oxide-cladding aluminum nitride photonic crystal slab: Design and investigation of material dispersion and fabrication induced disorder. <i>Journal of Applied Physics</i> , 2016 , 119, 023107	2.5	1
4	Characterization and application of niobium-doped titanium dioxide thin films prepared by sol-gel process. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	1
3	Direct Conversion of Methane to C Hydrocarbons in Solid-State Membrane Reactors at High Temperatures.. <i>Chemical Reviews</i> , 2021 ,	68.1	1
2	Chemical vapor deposition graphene transfer onto asymmetric PMMA support. <i>Journal of Applied Polymer Science</i> , 51590	2.9	0
1	Synthesis of iron pyrite thin films by Russian Doll sulfurization apparatus. <i>Thin Solid Films</i> , 2016 , 616, 303-310	2.2	