

Emanuele Francesco Pecora

List of Publications by Year in descending order

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32
papers

769
citations

430874

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501196

28
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32
all docs

32
docs citations

32
times ranked

1310
citing authors

#	ARTICLE	IF	CITATIONS
1	Photonicâ€“Plasmonic Coupling of GaAs Single Nanowires to Optical Nanoantennas. Nano Letters, 2014, 14, 2271-2278.	9.1	73
2	Sub-250 nm room-temperature optical gain from AlGaIn/AlN multiple quantum wells with strong band-structure potential fluctuations. Applied Physics Letters, 2012, 100, 061111.	3.3	52
3	Antireflection High-Index Metasurfaces Combining Mie and Fabry-PÃ©rot Resonances. ACS Photonics, 2019, 6, 453-459.	6.6	51
4	Mechanism of Boron Diffusion in Amorphous Silicon. Physical Review Letters, 2008, 100, 155901.	7.8	44
5	Control of growth mechanisms and orientation in epitaxial Si nanowires grown by electron beam evaporation. Nanotechnology, 2009, 20, 135601.	2.6	42
6	Vertical â€œIIIâ€“Vâ€œV-Shaped Nanomembranes Epitaxially Grown on a Patterned Si[001] Substrate and Their Enhanced Light Scattering. ACS Nano, 2012, 6, 10982-10991.	14.6	41
7	Broadband Antireflection Coatings Employing Multiresonant Dielectric Metasurfaces. ACS Photonics, 2018, 5, 4456-4462.	6.6	39
8	Size-dependent second-harmonic generation from gold nanoparticles. Physical Review B, 2014, 89, .	3.2	38
9	Nanoscale amorphization, bending and recrystallization in silicon nanowires. Applied Physics A: Materials Science and Processing, 2011, 102, 13-19.	2.3	33
10	Development of AlGaIn-based graded-index-separate-confinement-heterostructure deep UV emitters by molecular beam epitaxy. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, .	1.2	33
11	Role of the Si excess on the excitation of Er doped SiOx. Applied Physics Letters, 2007, 90, 183102.	3.3	31
12	Nanopatterning of silicon nanowires for enhancing visible photoluminescence. Nanoscale, 2012, 4, 2863.	5.6	30
13	Kinetics of Si and Ge nanowires growth through electron beam evaporation. Nanoscale Research Letters, 2011, 6, 162.	5.7	28
14	Rare earth doped Si-rich ZnO for multiband near-infrared light emitting devices. Applied Physics Letters, 2012, 101, 191115.	3.3	27
15	Deep-Ultraviolet Emitting AlGaIn Multiple Quantum Well Graded-Index Separate-Confinement Heterostructures Grown by MBE on SiC Substrates. IEEE Photonics Journal, 2017, 9, 1-9.	2.0	27
16	Sub-250â€“nm light emission and optical gain in AlGaIn materials. Journal of Applied Physics, 2013, 113, .	2.5	24
17	Generation of second harmonic radiation from sub-stoichiometric silicon nitride thin films. Applied Physics Letters, 2013, 102, 141114.	3.3	21
18	Heteroepitaxial Growth and Faceting of Ge Nanowires on Si(111) by Electron-Beam Evaporation. Electrochemical and Solid-State Letters, 2010, 13, K53.	2.2	18

#	ARTICLE	IF	CITATIONS
19	Deep-UV optical gain in AlGa _N -based graded-index separate confinement heterostructure. <i>Optical Materials Express</i> , 2015, 5, 809.	3.0	17
20	Temperature dependence and aging effects on silicon nanowires photoluminescence. <i>Optics Express</i> , 2012, 20, 1483.	3.4	16
21	Enhanced second harmonic generation from InAs nano-wing structures on silicon. <i>Nanoscale</i> , 2013, 5, 10163.	5.6	15
22	Effect of indium in Al _{0.65} Ga _{0.35} N/Al _{0.8} Ga _{0.2} N MQWs for the development of deep-UV laser structures in the form of graded-index separate confinement heterostructure (GRINSCH). <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1165-1169.	1.8	15
23	Polarization Properties of Deep-Ultraviolet Optical Gain in Al-Rich AlGa _N Structures. <i>Applied Physics Express</i> , 2012, 5, 032103.	2.4	13
24	Ion beam-induced bending of silicon nanowires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1074-1077.	2.7	9
25	Er-based materials for Si microphotronics. <i>Optical Materials</i> , 2009, 31, 1269-1274.	3.6	8
26	Influence of O contamination and Au cluster properties on the structural features of Si nanowires. <i>Thin Solid Films</i> , 2010, 518, 2562-2564.	1.8	7
27	Photonic-plasmonic-coupled nanoantennas for polarization-controlled multispectral nanofocusing. <i>Optics Letters</i> , 2013, 38, 4861.	3.3	7
28	Experimental investigations of boron diffusion mechanisms in crystalline and amorphous silicon. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 154-155, 240-246.	3.5	3
29	Heteroepitaxial Growth of Ge Nanowires on Si Substrates. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-5.	2.5	3
30	Generation and Self-Organization of Bimetallic Pd/Au Nanoparticles on SiO ₂ by Sequential Sputtering Depositions and Annealing Processes. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8537-8545.	0.9	3
31	Indirect Diffusion Mechanism of Boron Atoms in Crystalline and Amorphous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1070, 1.	0.1	1
32	Sub-250nm room temperature optical gain from AlGa _N /AlN multiple quantum wells structures. , 2012, , .		0