Luca Francaviglia

List of Publications by Year
in descending order

25	363	840585 11	794469 19
papers	citations	h-index	g-index

25	25	25	677
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Agâ€“Diamond Coreâ€“Shell Nanostructures Incorporated with Silicon-Vacancy Centers. ACS Materials Au, 2022, 2, 85-93.	2.6	3
2	Excitonic absorption and defect-related emission in three-dimensional MoS₂ pyramids. Nanoscale, 2022, 14, 1179-1186.	2.8	3
3	Optimizing cathodoluminescence microscopy of buried interfaces through nanoscale heterostructure design. Nanoscale, 2022, 14, 7569-7578.	2.8	2
4	Autonomous scanning probe microscopy investigations over WS2 and Au{111}. Npj Computational Materials, 2022, 8, .	3.5	6
5	GaAs nanoscale membranes: prospects for seamless integration of IIIâ€“Vs on silicon. Nanoscale, 2020, 12, 815-824.	2.8	12
6	Quantitative Nanoscale Absorption Mapping: A Novel Technique To Probe Optical Absorption of Two-Dimensional Materials. Nano Letters, 2020, 20, 567-576.	4.5	22
7	3D Ordering at the Liquidâ€“Solid Polar Interface of Nanowires. Advanced Materials, 2020, 32, e2001030.	11.1	10
8	Formation, electronic structure, and optical properties of self-assembled quantum-dot single-photon emitters in Ga(N,As,P) nanowires. Physical Review Materials, 2020, 4, .	0.9	4
9	Increasing N content in GaNAsP nanowires suppresses the impact of polytypism on luminescence. Nanotechnology, 2019, 30, 405703.	1.3	6
10	IIIâ€“V Integration on Si(100): Vertical Nanospades. ACS Nano, 2019, 13, 5833-5840.	7.3	24
11	Tuning adatom mobility and nanoscale segregation by twin formation and polytypism. Nanotechnology, 2019, 30, 054006.	1.3	3
12	Segregation scheme of indium in AlGaInAs nanowire shells. Physical Review Materials, 2019, 3, .	0.9	11
13	Bistability of Contact Angle and Its Role in Achieving Quantum-Thin Self-Assisted GaAs nanowires. Nano Letters, 2018, 18, 49-57.	4.5	62
14	Anisotropic-Strain-Induced Band Gap Engineering in Nanowire-Based Quantum Dots. Nano Letters, 2018, 18, 2393-2401.	4.5	10
15	Optimizing the yield of A-polar GaAs nanowires to achieve defect-free zinc blende structure and enhanced optical functionality. Nanoscale, 2018, 10, 17080-17091.	2.8	31
16	Dopant-Induced Modifications of Ga_xIn_(1â€“x)P Nanowire-Based pâ€“n Junctions Monolithically Integrated on Si(111). ACS Applied Materials & Interfaces, 2018, 10, 32588-32596.	4.0	18
17	Photophysics behind highly luminescent two-dimensional hybrid perovskite (CH3(CH2)2NH3)2(CH3NH3)2Pb3Br10 thin films. Journal of Materials Chemistry C, 2018, 6, 6216-6221.	2.7	12
18	Bi-stability of contact angle and its role in tuning the morphology of self-assisted GaAs nanowires. , 2018, , .		0

#	Article	IF	Citations
19	Surface passivation and self-regulated shell growth in selective area-grown GaNâ€“(Al,Ga)N coreâ€“shell nanowires. Nanoscale, 2017, 9, 7179-7188.	2.8	21
20	Nanoporous silicon tubes: the role of geometry in nanostructure formation and application to light emitting diodes. Journal Physics D: Applied Physics, 2017, 50, 265101.	1.3	1
21	Quantum Dots in Nanowires. Semiconductors and Semimetals, 2016, , 159-184.	0.4	3
22	Strain-Induced Band Gap Engineering in Selectively Grown GaNâ€“(Al,Ga)N Coreâ€“Shell Nanowire Heterostructures. Nano Letters, 2016, 16, 7098-7106.	4.5	41
23	Quantum dots in the GaAs/AlxGa1â^'xAs core-shell nanowires: Statistical occurrence as a function of the shell thickness. Applied Physics Letters, 2015, 107, .	1.5	13
24	Three-dimensional nanoscale study of Al segregation and quantum dot formation in GaAs/AlGaAs core-shell nanowires. Applied Physics Letters, 2014, 105, .	1.5	45
25	10.1063/1.4904952.1. , 2014, , .		0