Giorgio Pettinari

List of Publications by Year
in descending order

88	1,416	331538	377752
papers	citations	21 h-index	34 g-index

91	91	91	1297
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selective Effects of the Host Matrix in Hydrogenated InGaAsN Alloys: Toward an Integrated Matrix/Defect Engineering Paradigm. Advanced Functional Materials, 2022, 32, 2108862.	7.8	0
2	Millimetric Sardinia radio Telescope Receiver based on Array of Lumped elements kids. EPJ Web of Conferences, 2022, 257, 00012.	0.1	2
3	Vibrational Properties in Highly Strained Hexagonal Boron Nitride Bubbles. Nano Letters, 2022, 22, 1525-1533.	4.5	30
4	Tailoring the optical properties of 2D transition metal dichalcogenides by strain. Optical Materials, 2022, 125, 112087.	1.7	9
5	Mechanical, Elastic, and Adhesive Properties of Twoâ€Dimensional Materials: From Straining Techniques to Stateâ€ofâ€theâ€Art Local Probe Measurements. Advanced Materials Interfaces, 2022, 9, .	1.9	24
6	Total power horn-coupled 150 GHz LEKID array for space applications. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 009.	1.9	2
7	A chemically etched corrugated feedhorn array for D-band CMB observations. Experimental Astronomy, 2021, 51, 249-272.	1.6	5
8	Tailoring the optical properties of dilute nitride semiconductors at the nanometer scale. Nanotechnology, 2021, 32, 185301.	1.3	0
9	Reducing the impact of radioactivity on quantum circuits in a deep-underground facility. Nature Communications, 2021, 12, 2733.	5.8	65
10	Strain-tuning of the electronic, optical, and vibrational properties of two-dimensional crystals. Applied Physics Reviews, 2021, 8, .	5.5	67
11	Photonic Jet Writing of Quantum Dots Selfâ€Aligned to Dielectric Microspheres. Advanced Quantum Technologies, 2021, 4, 2100045.	1.8	6
12	Final results of CALDER: kinetic inductance light detectors to search for rare events. European Physical Journal C, 2021, 81, 1.	1.4	5
13	Experimental Adhesion Energy in van der Waals Crystals and Heterostructures from Atomically Thin Bubbles. Physical Review Letters, 2021, 127, 046101.	2.9	36
14	Exceptional Elasticity of Microscale Constrained MoS₂ Domes. ACS Applied Materials & Interfaces, 2021, 13, 48228-48238.	4.0	13
15	W-band Lumped Element Kinetic Inductance Detector Array for Large Ground-Based Telescopes. Journal of Low Temperature Physics, 2020, 199, 130-137.	0.6	6
16	Nanoscale Measurements of Elastic Properties and Hydrostatic Pressure in H₂â€Bulged MoS₂ Membranes. Advanced Materials Interfaces, 2020, 7, 2001024.	1.9	26
17	Cryogenic Light Detectors for Background Suppression: The CALDER Project. Journal of Low Temperature Physics, 2020, 200, 206-212.	0.6	3
18	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">N</mml:mi><mml:mtext>â^’</mml:mtext><mml:mi>n</mml:mi><mml:mi mathvariant="normal">H</mml:mi></mml:math> complexes in GaAs studied at the atomic scale by cross-sectional scanning tunneling microscopy. Physical Review B, 2020, 102, .	1.1	4

#	Article	IF	Citations
19	The first flight of the OLIMPO experiment: instrument performance. Journal of Physics: Conference Series, 2020, 1548, 012018.	0.3	5
20	Imaging shape and strain in nanoscale engineered semiconductors for photonics by coherent x-ray diffraction. Communications Materials, 2020, 1, .	2.9	2
21	Broadband enhancement of light-matter interaction in photonic crystal cavities integrating site-controlled quantum dots. Physical Review B, 2020, 101, .	1.1	14
22	Engineered Creation of Periodic Giant, Nonuniform Strains in MoS₂ Monolayers. Advanced Materials Interfaces, 2020, 7, 2000621.	1.9	38
23	In-Flight Performance of the LEKIDs of the OLIMPO Experiment. Journal of Low Temperature Physics, 2020, 199, 491-501.	0.6	14
24	BULLKID: BULky and Low-Threshold Kinetic Inductance Detectors. Journal of Low Temperature Physics, 2020, 199, 593-597.	0.6	9
25	Pulse Response of a Kinetic Inductance Detector in the Nonlinear Regime. Journal of Low Temperature Physics, 2020, 199, 639-645.	0.6	2
26	Evidence of the direct-to-indirect band gap transition in strained two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>WS</mml:mi></mml:mrow><mml:mn>2</m , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mn>2</r , and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mn>2</r	1.3	100
27	Kinetic Inductance Detectors and readout electronics for the OLIMPO experiment. Journal of Physics: Conference Series, 2019, 1182, 012005.	0.3	12
28	Kinetic Inductance Detectors for the OLIMPO experiment: in-flight operation and performance. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 003-003.	1.9	23
29	Phonon and light read out of a $$hbox {Li}_{2}hbox {MoO}_{4}$$ crystal with multiplexed kinetic inductance detectors. European Physical Journal C, 2019, 79, 1.	1.4	11
30	High-TC Superconducting Kinetic Inductance Detectors for Terahertz Imaging. , 2019, , .		0
31	Controlled Micro/Nanodome Formation in Protonâ€Irradiated Bulk Transitionâ€Metal Dichalcogenides. Advanced Materials, 2019, 31, e1903795.	11.1	60
32	Planar chiral plasmonic 2D metamaterial: Design and fabrication. AIP Conference Proceedings, 2019, , .	0.3	2
33	Measurements and Simulations of Athermal Phonon Transmission from Silicon Absorbers to Aluminum Sensors. Physical Review Applied, 2019, 11, .	1.5	19
34	Strain related relaxation of the GaAs-like Raman mode selection rules in hydrogenated GaAs1â^'xNx layers. Journal of Applied Physics, 2019, 125, 175701.	1.1	3
35	Plasmon-assisted bandgap engineering in dilute nitrides. Nanophotonics, 2019, 8, 1465-1476.	2.9	4
36	Kinetic inductance detectors for the OLIMPO experiment: design and pre-flight characterization. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 039-039.	1.9	24

#	Article	IF	Citations
37	Coupled Photonic Crystal Nanocavities as a Tool to Tailor and Control Photon Emission. Ceramics, 2019, 2, 34-55.	1.0	2
38	Vacuum ultraviolet quarter wave plates based on SnTe/Al bilayer: Design, fabrication, optical and ellipsometric characterization. Applied Surface Science, 2019, 463, 75-81.	3.1	7
39	Status of the CALDER project: Cryogenic light detectors for background suppression. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 166-168.	0.7	0
40	High circular dichroism and robust performance in planar plasmonic metamaterial made of nano-comma-shaped resonators. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3079.	0.9	8
41	Spatially Selective Hydrogen Irradiation/Removal of Dilute Nitrides: A Versatile Nanofabrication Tool for Photonic Applications. , 2019, , .		0
42	Spatially selective hydrogen irradiation of dilute nitride semiconductors: a brief review. Semiconductor Science and Technology, 2018, 33, 053001.	1.0	5
43	Siteâ€Controlled Singleâ€Photon Emitters Fabricated by Nearâ€Field Illumination. Advanced Materials, 2018, 30, e1705450.	11.1	23
44	EUV polarimetry for thin film and surface characterization and EUV phase retarder reflector development. Review of Scientific Instruments, 2018, 89, 015108.	0.6	7
45	Gallium clustering and structural effects of hydrogenation in InGaN/GaN nanostructures. Journal of Applied Physics, 2018, 124, 165709.	1.1	3
46	Quantum Dots: Site-Controlled Single-Photon Emitters Fabricated by Near-Field Illumination (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	11.1	0
47	Site-Controlled Quantum Emitters in Dilute Nitrides and their Integration in Photonic Crystal Cavities. Photonics, 2018, 5, 10.	0.9	12
48	A lithographic approach for quantum dot-photonic crystal nanocavity coupling in dilute nitrides. Microelectronic Engineering, 2017, 174, 16-19.	1.1	10
49	A table top polarimetric facility for the EUV spectral range: implementations and characterization. Proceedings of SPIE, 2017, , .	0.8	4
50	Optical Spectroscopy of Dark and Bright Excitons in CdSe Nanocrystals in High Magnetic Fields. Journal of Physical Chemistry C, 2017, 121, 23693-23704.	1.5	17
51	Electron effective mass enhancement in Ga(AsBi) alloys probed by cyclotron resonance spectroscopy. Physical Review B, 2016, 94, .	1.1	10
52	Genesis of â€œSolitary Cationsâ€•Induced by Atomic Hydrogen. Advanced Functional Materials, 2015, 25, 5353-5359.	7.8	6
53	Carrier masses and band-gap temperature sensitivity in Ga(AsBi) alloys. Semiconductor Science and Technology, 2015, 30, 094002.	1.0	11
54	Peculiarities of the hydrogenated In(AsN) alloy. Semiconductor Science and Technology, 2015, 30, 105030.	1.0	4

#	Article	IF	Citations
55	Single photon emitters in dilute nitrides: Towards a determinist approach of quantum dot-photonic crystal nanocavity coupling. , 2015, , .		0
56	Synchrotron x-ray diffraction study of micro-patterns obtained by spatially selective hydrogenation of GaAsN. Applied Physics Letters, 2015, 106, 051905.	1.5	3
57	Quantitative determination of In clustering in In-rich In_xGa_{1â^'x}N thin films. Journal Physics D: Applied Physics, 2014, 47, 415301.	1.3	4
58	Hydrogen effects in dilute III-N-V alloys: From defect engineering to nanostructuring. Journal of Applied Physics, 2014, 115, 012011.	1.1	9
59	Tunable spectral response by hydrogen irradiation of Ga(AsN) superlattice diodes. Applied Physics Letters, 2014, 104, 242110.	1.5	1
60	Effects of Bi incorporation on the electronic properties of GaAs: Carrier masses, hole mobility, and Biâ€induced acceptor states. Physica Status Solidi (B): Basic Research, 2013, 250, 779-786.	0.7	18
61	Tuning of the optical properties of In-rich In[sub x]Ga[sub 1â^'x]N (x=0.82â^'0.49) alloys by light-ion irradiation at low energy. , 2013, , .		0
62	Effects of hydrogen irradiation on the optical and electronic properties of site-controlled InGaAsN V-groove quantum wires. , 2013, , .		1
63	Nonresonant hydrogen dopants in In(AsN): A route to high electron concentrations and mobilities. Physical Review B, 2013, 87, .	1.1	10
64	Effects of hydrogen irradiation on the optical and electronic properties of siteâ€controlled InGaAsN Vâ€groove quantum wires. Physica Status Solidi C: Current Topics in Solid State Physics, 2013, 10, 556-560.	0.8	0
65	A micrometer-size movable light emitting area in a resonant tunneling light emitting diode. Applied Physics Letters, 2013, 103, .	1.5	3
66	Identification of four-hydrogen complexes in In-rich In<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mi>x</mml:mi></mml:msub></mml:math>Ga<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>N		

#	Article	IF	Citations
73	Fabrication of Siteâ€€Controlled Quantum Dots by Spatially Selective Incorporation of Hydrogen in Ga(AsN)/GaAs Heterostructures. Advanced Materials, 2011, 23, 2706-2710.	11.1	41
74	Compositional dependence of the exciton reduced mass inGaAs1âˆ'xBix(x=0â€“10%). Physical Review B, 2010, 81, .	1.1	48
75	Carrier mass measurements in degenerate indium nitride. Physical Review B, 2009, 79, .	1.1	25
76	Zero-phonon lines of nitrogen-cluster states in GaNxAs1âˆ'x: H identified by time-resolved photoluminescence. Journal of Materials Science, 2008, 43, 4344-4347.	1.7	2
77	Photoluminescence under magnetic field and hydrostatic pressure for probing the electronic properties of GaAsN. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 107-113.	0.8	4
78	Experimental evidence of different hydrogen donors in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>n</mml:mi></mml:math>-type InN. Physical Review B, 2008, 77, .	1.1	35
79	Influence of bismuth incorporation on the valence and conduction band edges of GaAs1âˆ'xBix. Applied Physics Letters, 2008, 92, 262105.	1.5	92
80	Role of strain and properties of N clusters at the onset of the alloy limit inGaAs1âˆ'xNx. Physical Review B, 2008, 77, .	1.1	18
81	Time-Resolved Photoluminescence of Nitrogen-Cluster States in Dilute Ga(NAs)/GaAs Heterostructures. , 2007, , .		0
82	Electron Mass in Dilute Nitrides and its Anomalous Dependence on Hydrostatic Pressure. Physical Review Letters, 2007, 98, 146402.	2.9	42
83	Hydrogen-induced Nitrogen Passivation in Dilute Nitrides: A Novel Approach to Defect Engineering. Materials Research Society Symposia Proceedings, 2007, 994, 1.	0.1	0
84	Photoluminescence under magnetic field and hydrostatic pressure in GaAs1âˆ'xNx for probing the compositional dependence of carrier effective mass and gyromagnetic ratio. AIP Conference Proceedings, 2007, , .	0.3	0
85	In-Plane Band Gap Engineering by Hydrogenation of Dilute Nitride Semiconductors. AIP Conference Proceedings, 2007, , .	0.3	0
86	Behavior of hydrogen in InN investigated in real time exploiting spectroscopic ellipsometry. Applied Physics Letters, 2007, 91, 081917.	1.5	9
87	Influence of nitrogen-cluster states on the gyromagnetic factor of electrons inGaAs1âˆ'xNx. Physical Review B, 2006, 74, .	1.1	46
88	Interaction between conduction band edge and nitrogen states probed by carrier effective-mass measurements inGaAs1âˆ'xNx. Physical Review B, 2006, 73, .	1.1	106