Alessandra Di Gaspare

List of Publications by Year
in descending order

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61	971	567281 15	434195 31
papers	citations	h-index	g-index

62	62	62	1534
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spatial coherence of electrically pumped random terahertz lasers. Photonics Research, 2022, 10, 524.	7.0	3
2	Self-mixing interferometry and near-field nanoscopy in quantum cascade random lasers at terahertz frequencies. Nanophotonics, 2021, 10, 1495-1503.	6.0	14
3	Terahertz Near-field Nanoscopy Based on Self-mixing Interferometry with Quantum Cascade Resonators. , 2021, , .		0
4	Polarization analysis of random THz lasers. APL Photonics, 2021, 6, 070805.	5.7	2
5	Tunable, Gratingâ€Gated, Grapheneâ€Onâ€Polyimide Terahertz Modulators. Advanced Functional Materials, 2021, 31, 2008039.	14.9	31
6	Fourier Transform Infrared Spectroscopy as a useful tool for the automated classification of cancer cell-derived exosomes obtained under different culture conditions. Analytica Chimica Acta, 2020, 1140, 219-227.	5.4	21
7	Terahertz Tuning of Dirac Plasmons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m Topological Insulator. Physical Review Letters, 2020, 124, 226403.	7.8	27
8	Homogeneous quantum cascade lasers operating as terahertz frequency combs over their entire operational regime. Nanophotonics, 2020, 10, 181-186.	6.0	10
9	Terahertz plasmonic excitations in Bi₂Se₃topological insulator. Journal of Physics Condensed Matter, 2017, 29, 183002.	1.8	19
10	Coupling of terahertz radiation to two-dimensional plasmons in a resonant cavity via an on-chip integrated cross-dipole antenna. , 2016, , .		0
11	Topologically protected Dirac plasmons and their evolution across the quantum phase transition in a (Bi_{1â^'x}In_x)₂Se₃topological insulator. Nanoscale, 2016, 8, 4667-4671.	5.6	13
12	Graphene-based field effect transistors for radiation-induced field sensing. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 392-393.	1.6	3
13	Plasmonâ€“Phonon Interactions in Topological Insulator Microrings. Advanced Optical Materials, 2015, 3, 1257-1263.	7.3	72
14	Detailed Investigation of the Low-Energy Secondary Electron Yield (LE-SEY) of Clean Polycrystalline Cu and of Its Technical Counterpart. IEEE Transactions on Plasma Science, 2015, 43, 2954-2960.	1.3	4
15	Downconversion of terahertz radiation due to intrinsic hydrodynamic nonlinearity of a two-dimensional electron plasma. Physical Review B, 2015, 91, .	3.2	21
16	Three-dimensional fabrication of free-standing epitaxial semiconductor nanostructures obtained by focused ion beam. Microelectronic Engineering, 2015, 141, 168-172.	2.4	7
17	Observation of Magnetoplasmons in Bi₂Se₃ Topological Insulator. ACS Photonics, 2015, 2, 1231-1235.	6.6	48
18	Detailed investigation of the low energy secondary electron yield of technical Cu and its relevance for the LHC. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	39

#	Article	IF	Citations
19	Terahertz plasmon cavity modes in a heterostructure transistor. , 2014, , .		0
20	Subharmonic mixing at 0.6 THz in an AlGaAs/InGaAs/AlGaAs field effect transistor. , 2014, , .		0
21	Terahertz plasmonic excitations in Bi<inf>2</inf>Se<inf>3</inf> topological insulator. , 2014, , .		0
22	Superconductivity-Induced Transparency in Terahertz Metamaterials. ACS Photonics, 2014, 1, 570-575.	6.6	47
23	Observation of Dirac plasmons in a topological insulator. Nature Nanotechnology, 2013, 8, 556-560.	31.5	332
24	Field distribution and quality factor of surface plasmon resonances of metal meshes for mid-infrared sensing. Plasmonics, 2013, 8, 851-858.	3.4	10
25	Heterodyne and subharmonic mixing at 0.6â€‰THz in an AlGaAs/InGaAs/AlGaAs heterostructure field effect transistor. Applied Physics Letters, 2013, 103, 093505.	3.3	15
26	Mid-Infrared Surface Plasmon Polariton Sensors Resonant with the Vibrational Modes of Phospholipid Layers. Journal of Physical Chemistry C, 2013, 117, 19119-19126.	3.1	22
27	The SPARC linear accelerator based terahertz source. Applied Physics Letters, 2013, 102, .	3.3	57
28	Antenna-coupled heterostructure field effect transistors for integrated terahertz heterodyne mixers. , 2013, , .		2
29	Fabrication of air-bridge sub-micron Schottky junctions on Ge/SOI for THz detection. Microelectronic Engineering, 2013, 110, 470-473.	2.4	1
30	Spectroscopic study of plasma wave resonances of a two-dimensional electron gas in a microcavity at low temperatures. Journal of Optics (United Kingdom), 2013, 15, 114012.	2.2	4
31	Intrinsic linewidth of the plasmonic resonance in a micrometric metal mesh. Optics Express, 2013, 21, 15401.	3.4	4
32	Differential Fano interference spectroscopy of subwavelength hole arrays for mid-infrared mass sensors. , 2013, , .		1
33	Intrinsic linewidth of the Fano resonance in a micrometric metal mesh. , 2013, , .		0
34	Plasmonic excitations in Bi<inf>2</inf>Se<inf>3</inf> topological insulator. , 2013, , .		1
35	Responsivity at 0.27 THz of a heterostructure field effect transistor detector in a quasi-optical package. , 2013, , .		0
36	Sub-harmonic mixing at 591 GHz in AlGaAs/InGaAs two-dimensional electron gas transistors. , 2013, , .		0

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37	Dark and bright surface plasmon resonances of metal meshes for mid-infrared sensing at the nanoscale. , 2012, , .		0
38	Terahertz current oscillations in a gated two-dimensional electron gas with antenna integrated at the channel ends. Applied Physics Letters, 2012, 100, .	3.3	19
39	Fabrication and Characterization of Quasi-Optical Terahertz Nanorectifiers with Integrated Antennas. Journal of Physics: Conference Series, 2012, 359, 012017.	0.4	3
40	Weak antilocalization and spin-orbit interaction in a two-dimensional electron gas. Physical Review B, 2012, 85, .	3.2	19
41	Mid-infrared nanoantenna arrays on silicon and CaF2 substrates for sensing applications. Microelectronic Engineering, 2012, 97, 197-200.	2.4	21
42	A terahertz oscillator based on GaN-HFET with integrated antenna for frequency mixing and rectification. , 2012, , .		0
43	Asymmetric double grating gate detector fabricated on industrial pseudomorphic AlGaAs/InGaAs/AlGaAs heterostructure. , 2012, , .		0
44	A Fast Terahertz Spectrometer Based on Frequency Selective Surface Filters. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 505-512.	2.2	12
45	Towards substrate removal in quasi-optical Schottky detector arrays. , 2011, , .		1
46	Fabrication and quantitative comparison of quasi-optical terahertz rectifiers with integrated antennas. , 2011, , .		0
47	Magnetotransport investigation of conducting channels and spin splitting in high-density AlGaN/AlN/GaN two-dimensional electron gas. Physical Review B, 2011, 83, .	3.2	5
48	Quantum transport in low-dimensional AlGaN/GaN systems. Journal of Nanoparticle Research, 2011, 13, 5699-5704.	1.9	4
49	Scaling the spectral response of metamaterial dipolar filters in the terahertz. Optics Communications, 2011, 284, 1690-1693.	2.1	9
50	Three-dimensional shaping of sub-micron GaAs Schottky junctions for zero-bias terahertz rectification. Applied Physics Letters, 2011, 99, .	3.3	14
51	Monolithic focal plane arrays for terahertz active spectroscopic imaging: an experimental study. , 2011, , .		1
52	AlGaN/GaN heterostructure transistors for the generation and detection of THz radiation. , 2010, , .		0
53	Perspectives in the design of monolithic focal plane arrays for terahertz active spectroscopic imaging. , 2010, , .		0
54	Bandpass filters in the terahertz range based on Al-on-Si metasurfaces. , 2010, , .		1

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55	Detection of terahertz radiation by AlGaN/GaN field-effect transistors. , 2009, , .		3
56	Study of the Coupling of Terahertz Radiation to Heterostructure Transistors with a Free Electron Laser Source. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 1362.	2.2	5
57	Homodyne mixing at 150 GHz in a high electron mobility transistor. , 2008, , .		0
58	Very High Performance GaN HEMT devices by Optimized Buffer and Field Plate Technology. , 2006, , .		4
59	Annealing temperature effects on the electrical characteristics of p-channel polysilicon thin film transistors. Journal of Non-Crystalline Solids, 2006, 352, 1723-1727.	3.1	3
60	Stable p-channel polysilicon thin film transistors fabricated by laser doping technique. Thin Solid Films, 2005, 487, 232-236.	1.8	12
61	Imaging the coupling of terahertz radiation to a high electron mobility transistor in the near-field. Journal of the European Optical Society-Rapid Publications, 0, 4, .	1.9	5