

Alessandra Di Gaspare

List of Publications by Year in descending order

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61
papers

971
citations

567281

15
h-index

434195

31
g-index

62
all docs

62
docs citations

62
times ranked

1534
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Dirac plasmons in a topological insulator. Nature Nanotechnology, 2013, 8, 556-560.	31.5	332
2	Plasmon-Phonon Interactions in Topological Insulator Microrings. Advanced Optical Materials, 2015, 3, 1257-1263.	7.3	72
3	The SPARC linear accelerator based terahertz source. Applied Physics Letters, 2013, 102, .	3.3	57
4	Observation of Magnetoplasmons in Bi_2Se_3 Topological Insulator. ACS Photonics, 2015, 2, 1231-1235.	6.6	48
5	Superconductivity-Induced Transparency in Terahertz Metamaterials. ACS Photonics, 2014, 1, 570-575.	6.6	47
6	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
7	Tunable, Grating-Gated, Graphene-On-Polyimide Terahertz Modulators. Advanced Functional Materials, 2021, 31, 2008039.	14.9	31
8	Terahertz Tuning of Dirac Plasmons in Bi_2Se_3 Topological Insulator. Physical Review Letters, 2020, 124, 226403.	7.2	27
9	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
10	Mid-infrared nanoantenna arrays on silicon and CaF_2 substrates for sensing applications. Microelectronic Engineering, 2012, 97, 197-200.	2.4	21
11	Downconversion of terahertz radiation due to intrinsic hydrodynamic nonlinearity of a two-dimensional electron plasma. Physical Review B, 2015, 91, .	3.2	21
12	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
13	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
14	Weak antilocalization and spin-orbit interaction in a two-dimensional electron gas. Physical Review B, 2012, 85, .	3.2	19
15	Terahertz plasmonic excitations in Bi_2Se_3 topological insulator. Journal of Physics Condensed Matter, 2017, 29, 183002.	1.8	19
16	Heterodyne and subharmonic mixing at 0.6 THz in an AlGaAs/InGaAs/AlGaAs heterostructure field effect transistor. Applied Physics Letters, 2013, 103, 093505.	3.3	15
17	Three-dimensional shaping of sub-micron GaAs Schottky junctions for zero-bias terahertz rectification. Applied Physics Letters, 2011, 99, .	3.3	14
18	Self-mixing interferometry and near-field nanoscopy in quantum cascade random lasers at terahertz frequencies. Nanophotonics, 2021, 10, 1495-1503.	6.0	14

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19	Topologically protected Dirac plasmons and their evolution across the quantum phase transition in a $(\text{Bi}_x\text{In}_{1-x})_2\text{Se}_3$ topological insulator. <i>Nanoscale</i> , 2016, 8, 4667-4671.	5.6	13
20	Stable p-channel polysilicon thin film transistors fabricated by laser doping technique. <i>Thin Solid Films</i> , 2005, 487, 232-236.	1.8	12
21	A Fast Terahertz Spectrometer Based on Frequency Selective Surface Filters. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012, 33, 505-512.	2.2	12
22	Field distribution and quality factor of surface plasmon resonances of metal meshes for mid-infrared sensing. <i>Plasmonics</i> , 2013, 8, 851-858.	3.4	10
23	Homogeneous quantum cascade lasers operating as terahertz frequency combs over their entire operational regime. <i>Nanophotonics</i> , 2020, 10, 181-186.	6.0	10
24	Scaling the spectral response of metamaterial dipolar filters in the terahertz. <i>Optics Communications</i> , 2011, 284, 1690-1693.	2.1	9
25	Three-dimensional fabrication of free-standing epitaxial semiconductor nanostructures obtained by focused ion beam. <i>Microelectronic Engineering</i> , 2015, 141, 168-172.	2.4	7
26	Imaging the coupling of terahertz radiation to a high electron mobility transistor in the near-field. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 4, .	1.9	5
27	Study of the Coupling of Terahertz Radiation to Heterostructure Transistors with a Free Electron Laser Source. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2009, 30, 1362.	2.2	5
28	Magnetotransport investigation of conducting channels and spin splitting in high-density AlGaIn/AlN/GaN two-dimensional electron gas. <i>Physical Review B</i> , 2011, 83, .	3.2	5
29	Very High Performance GaN HEMT devices by Optimized Buffer and Field Plate Technology. , 2006, , .		4
30	Quantum transport in low-dimensional AlGaIn/GaN systems. <i>Journal of Nanoparticle Research</i> , 2011, 13, 5699-5704.	1.9	4
31	Spectroscopic study of plasma wave resonances of a two-dimensional electron gas in a microcavity at low temperatures. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 114012.	2.2	4
32	Intrinsic linewidth of the plasmonic resonance in a micrometric metal mesh. <i>Optics Express</i> , 2013, 21, 15401.	3.4	4
33	Detailed Investigation of the Low-Energy Secondary Electron Yield (LE-SEY) of Clean Polycrystalline Cu and of Its Technical Counterpart. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 2954-2960.	1.3	4
34	Annealing temperature effects on the electrical characteristics of p-channel polysilicon thin film transistors. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1723-1727.	3.1	3
35	Detection of terahertz radiation by AlGaIn/GaN field-effect transistors. , 2009, , .		3
36	Fabrication and Characterization of Quasi-Optical Terahertz Nanorectifiers with Integrated Antennas. <i>Journal of Physics: Conference Series</i> , 2012, 359, 012017.	0.4	3

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37	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
38	Spatial coherence of electrically pumped random terahertz lasers. Photonics Research, 2022, 10, 524.	7.0	3
39	Antenna-coupled heterostructure field effect transistors for integrated terahertz heterodyne mixers. , 2013, , .		2
40	Polarization analysis of random THz lasers. APL Photonics, 2021, 6, 070805.	5.7	2
41	Bandpass filters in the terahertz range based on Al-on-Si metasurfaces. , 2010, , .		1
42	Towards substrate removal in quasi-optical Schottky detector arrays. , 2011, , .		1
43	Monolithic focal plane arrays for terahertz active spectroscopic imaging: an experimental study. , 2011, , .		1
44	Fabrication of air-bridge sub-micron Schottky junctions on Ge/SOI for THz detection. Microelectronic Engineering, 2013, 110, 470-473.	2.4	1
45	Differential Fano interference spectroscopy of subwavelength hole arrays for mid-infrared mass sensors. , 2013, , .		1
46	Plasmonic excitations in Bi ₂ Se ₃ topological insulator. , 2013, , .		1
47	Homodyne mixing at 150 GHz in a high electron mobility transistor. , 2008, , .		0
48	AlGaIn/GaN heterostructure transistors for the generation and detection of THz radiation. , 2010, , .		0
49	Perspectives in the design of monolithic focal plane arrays for terahertz active spectroscopic imaging. , 2010, , .		0
50	Fabrication and quantitative comparison of quasi-optical terahertz rectifiers with integrated antennas. , 2011, , .		0
51	Dark and bright surface plasmon resonances of metal meshes for mid-infrared sensing at the nanoscale. , 2012, , .		0
52	A terahertz oscillator based on GaN-HFET with integrated antenna for frequency mixing and rectification. , 2012, , .		0
53	Asymmetric double grating gate detector fabricated on industrial pseudomorphic AlGaAs/InGaAs/AlGaAs heterostructure. , 2012, , .		0
54	Intrinsic linewidth of the Fano resonance in a micrometric metal mesh. , 2013, , .		0

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55	Responsivity at 0.27 THz of a heterostructure field effect transistor detector in a quasi-optical package. , 2013, , .		0
56	Sub-harmonic mixing at 591 GHz in AlGaAs/InGaAs two-dimensional electron gas transistors. , 2013, , .		0
57	Terahertz plasmon cavity modes in a heterostructure transistor. , 2014, , .		0
58	Subharmonic mixing at 0.6 THz in an AlGaAs/InGaAs/AlGaAs field effect transistor. , 2014, , .		0
59	Terahertz plasmonic excitations in Bi$_2\text{Se}_3$ topological insulator. , 2014, , .		0
60	Coupling of terahertz radiation to two-dimensional plasmons in a resonant cavity via an on-chip integrated cross-dipole antenna. , 2016, , .		0
61	Terahertz Near-field Nanoscopy Based on Self-mixing Interferometry with Quantum Cascade Resonators. , 2021, , .		0