Michele Ortolani

List of Publications by Year
in descending order

245 papers	3,381 citations	172457 29 h-index	189892 50 g-index
246 all docs	246 docs citations	246 times ranked	4189 citing authors

#	Article	IF	Citations
1	Free electron harmonic generation in heavily doped semiconductors: the role of the materials properties. EPJ Applied Metamaterials, 2022, 9, 13.	1.5	3
2	Infrared Nanospectroscopy of Individual Extracellular Microvesicles. Molecules, 2021, 26, 887.	3.8	7
3	THz intersubband electroluminescence from n-type Ge/SiGe quantum cascade structures. Applied Physics Letters, 2021, 118, .	3.3	15
4	Free electron nonlinearities in heavily doped semiconductors plasmonics. Physical Review B, 2021, 103, .	3.2	13
5	THz intersubband absorption in n-type Si1âˆ’xGex parabolic quantum wells. Applied Physics Letters, 2021, 118, .	3.3	8
6	Nano-IR study of light-matter interaction between intersubband transitions in quantum wells and patch antenna resonators by polymer expansion. , 2021, , .		0
7	Terahertz intersubband electroluminescence from n-type germanium quantum wells. , 2021, , .		0
8	Conformational changes of a membrane protein determined by infrared difference spectroscopy beyond the diffraction limit. Physical Review Applied, 2021, 16, .	3.8	8
9	Microplastic pollution in perch (Perca fluviatilis, Linnaeus 1758) from Italian south-alpine lakes. Environmental Pollution, 2021, 288, 117782.	7.5	25
10	Spectral Characterization of Mid-Infrared Bloch Surface Waves Excited on a Truncated 1D Photonic Crystal. ACS Photonics, 2021, 8, 350-359.	6.6	16
11	Mid-infrared nano-imaging of current patterns in patch antenna resonators. , 2021, , .		0
12	Conformational changes of an oriented film of photosensitive proteins observed by polarized ATR infrared spectroscopy. , 2021, , .		0
13	Tip-enhanced infrared nanospectroscopy of microvesiscles. , 2021, , .		0
14	Mid-infrared Second Harmonic Generation in SiGe Quantum Wells. , 2021, , .		0
15	Mid-Infrared Bloch Surface Waves for biosensing applications. , 2021, , .		0
16	Detection of strong light-matter interaction at the nano-scale in concealed optical cavities via a thermal transducer. , 2021, , .		0
17	Free electron cascaded third-harmonic generation. , 2021, , .		1
18	Second Harmonic Generation in Germanium Quantum Wells for Nonlinear Silicon Photonics. ACS Photonics, 2021, 8, 3573-3582.	6.6	13

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19	Infrared nanospectroscopy study of the light-induced conformational changes of Channelrhodopsin. EPJ Web of Conferences, 2021, 255, 13001.	0.3	0
20	Mid-infrared second harmonic generation with Ge quantum wells. , 2021, , .		0
21	N-type heavy doping with ultralow resistivity in Ge by Sb deposition and pulsed laser melting. Applied Surface Science, 2020, 509, 145229.	6.1	19
22	Electron Population Dynamics in Optically Pumped Asymmetric Coupled Ge/SiGe Quantum Wells: Experiment and Models. Photonics, 2020, 7, 2.	2.0	5
23	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
24	Nanospectroscopy of a single patch antenna strongly coupled to a mid-infrared intersubband transition in a quantum well. Applied Physics Letters, 2020, 117, .	3.3	13
25	Plasmonic Superchiral Lattice Resonances in the Mid-Infrared. ACS Photonics, 2020, 7, 2676-2681.	6.6	26
26	Electron-phonon coupling in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -type Ge two-dimensional systems. Physical Review B, 2020, 102, .	3.2	7
27	Cross-Correlation of THz Pulses from the Electron Storage Ring BESSY II. Condensed Matter, 2020, 5, 24.	1.8	2
28	Disentangling elastic and inelastic scattering pathways in the intersubband electron dynamics of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -type Ge/SiGe quantum fountains. Physical Review B, 2020, 101, .	3.2	4
29	Ultra-broadband mid-infrared Ge-on-Si waveguide polarization rotator. APL Photonics, 2020, 5, 026102.	5.7	21
30	Intersubband Transition Engineering in the Conduction Band of Asymmetric Coupled Ge/SiGe Quantum Wells. Crystals, 2020, 10, 179.	2.2	11
31	Terahertz absorption-saturation and emission from electron-doped germanium quantum wells. Optics Express, 2020, 28, 7245.	3.4	12
32	Design and simulation of losses in Ge/SiGe terahertz quantum cascade laser waveguides. Optics Express, 2020, 28, 4786.	3.4	11
33	Characterization of integrated waveguides by atomic-force-microscopy-assisted mid-infrared imaging and spectroscopy. Optics Express, 2020, 28, 22186.	3.4	9
34	Infrared nanospectroscopy and nanoimaging of individual cell membranes and microvesicles exposed to air. OSA Continuum, 2020, 3, 2564.	1.8	2
35	Mid-infrared second harmonic generation in Ge/SiGe coupled quantum wells. , 2020, , .		1
36	Ge-on-Si Waveguide Polarization Rotator Operating in the 8-14 Âµm Atmospheric Transmission Window. , 2020, , .		0

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37	Near-field study of the strong coupling between intersubband transitions in quantum wells and single patch antenna resonators in the mid-infrared. , 2020, , .		0
38	Mid-infrared Sensing with Ge on Si Waveguides. , 2019, , .		0
39	Infrared spectroscopy of two-dimensional electron systems. European Physical Journal: Special Topics, 2019, 228, 669-673.	2.6	2
40	High-TC Superconducting Kinetic Inductance Detectors for Terahertz Imaging. , 2019, , .		0
41	Spectroscopic Evidence of Bloch Surface Waves in the Mid Infrared. , 2019, , .		0
42	Towards a Mid-Infrared Lab-on-Chip Sensor using Ge-on-Si Waveguides. , 2019, , .		0
43	Ge/SiGe Asymmetric Quantum Wells for Second Harmonic Generation in the Mid-Infrared. , 2019, , .		0
44	Pump-probe spectroscopy study of ultrafast temperature dynamics in nanoporous gold. Physical Review B, 2019, 99, .	3.2	24
45	Nanoscale thermal gradients activated by antenna-enhanced molecular absorption in the mid-infrared. Applied Physics Letters, 2019, 114, 023105.	3.3	5
46	Room temperature operation of n-type Ge/SiGe terahertz quantum cascade lasers predicted by non-equilibrium Green's functions. Applied Physics Letters, 2019, 114, .	3.3	45
47	Tip-Enhanced Infrared Difference-Nanospectroscopy of the Proton Pump Activity of Bacteriorhodopsin in Single Purple Membrane Patches. Nano Letters, 2019, 19, 3104-3114.	9.1	36
48	Electron-doped SiGe Quantum Well Terahertz Emitters pumped by FEL pulses. , 2019, , .		0
49	Si-based n-type THz Quantum Cascade Emitter. , 2019, , .		0
50	Terahertz filter with flat-top transmission response. , 2019, , .		0
51	Molecular Fingerprint Sensing using Ge-on-Si Waveguides. , 2019, , .		0
52	High-Quality n-Type Ge/SiGe Multilayers for THz Quantum Cascade Lasers. , 2019, , .		0
53	Difference mid-IR nanospectroscopy on individual patches of purple membranes: the proton pump activity of bacteriorhodopsin at the nanoscale. , 2019, , .		0
54	Control of Electron-State Coupling in Asymmetric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Ge</mml:mi><mml:mo>/</mml:mo><mml:mrow><mml:mrow><mml:mi>Si</mml:mi><mml:mtext>â^'</mml:mtext></mml:mrow></mml:mrow></mml:math> Quantum Wells. Physical Review Applied, 2019, 11, .	3.8	25

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55	Low loss germanium-on-silicon waveguides for integrated mid-infrared photonics. , 2019, , .		3
56	Fingerprint mid-infrared sensing with germanium on silicon waveguides. , 2019, , .		1
57	Plasmon-enhanced Ge-based metal-semiconductor-metal photodetector at near-IR wavelengths. Optics Express, 2019, 27, 20516.	3.4	16
58	Guided mode resonance flat-top bandpass filter for terahertz telecom applications. Optics Letters, 2019, 44, 4239.	3.3	14
59	Molecular Fingerprint Sensing using Ge-on-Si Waveguides. , 2019, , .		0
60	Infrared study of the quasi-two-dimensional electron system at the interface between<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m crystalline or amorphous<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2018, 97, .	3.2	8
61	Observation of phonon-polaritons in thin flakes of hexagonal boron nitride on gold. Applied Physics Letters, 2018, 112, .	3.3	16
62	Thermoplasmonic Effect of Surface-Enhanced Infrared Absorption in Vertical Nanoantenna Arrays. Journal of Physical Chemistry C, 2018, 122, 13072-13081.	3.1	18
63	Interfacial sharpness and intermixing in a Ge-SiGe multiple quantum well structure. Journal of Applied Physics, 2018, 123, .	2.5	16
64	Light-induced conformational changes of protein receptors probed by difference mid-IR microspectroscopy. , 2018, , .		0
65	Components for Integrated Ge on Si for Mid-Infrared Photonic Sensors. , 2018, , .		0
66	Ge-on-Si Mid-Infrared Waveguides Operating up to 11 Î¼m Wavelength. , 2018, , .		0
67	Plasmonic mid-infrared third harmonic generation in germanium nanoantennas. Light: Science and Applications, 2018, 7, 106.	16.6	42
68	High conductivity of ultrathin nanoribbons of SrRuO3 on SrTiO3 probed by infrared spectroscopy. Scientific Reports, 2018, 8, 15217.	3.3	1
69	Infrared Spectroscopy of the Topological Surface States of <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 by Use of the Berreman Effect. Physical Review Letters, 2018, 121, 176803.	7.8	6
70	Out-of-Equilibrium Collective Oscillation as Phonon Condensation in a Model Protein. Physical Review X, 2018, 8, .	8.9	26
71	Fractal-Like Plasmonic Metamaterial with a Tailorable Plasma Frequency in the near-Infrared. ACS Photonics, 2018, 5, 3408-3414.	6.6	32
72	Benchmarking the Use of Heavily Doped Ge for Plasmonics and Sensing in the Mid-Infrared. ACS Photonics, 2018, 5, 3601-3607.	6.6	31

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73	Confocal Imaging at 0.3 THz With Depth Resolution of a Painted Wood Artwork for the Identification of Buried Thin Metal Foils. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 390-396.	3.1	11
74	Low loss Ge-on-Si waveguides operating in the 8â€“14 Âµm atmospheric transmission window. Optics Express, 2018, 26, 25667.	3.4	56
75	Modeling of second harmonic generation in hole-doped silicon-germanium quantum wells for mid-infrared sensing. Optics Express, 2018, 26, 31861.	3.4	20
76	Fractal plasmonic metamaterial with tunable properties in the near-infrared. , 2018, , .		0
77	Electromagnetic field confinement in the gap of germanium nanoantennas with plasma wavelength of 4.5 micrometers. Proceedings of SPIE, 2017, , .	0.8	0
78	Functionalization of Scanning Probe Tips with Epitaxial Semiconductor Layers. Small Methods, 2017, 1, 1600033.	8.6	8
79	Nanospectroscopy of single purple membranes by mid-IR resonantly-enhanced mechanical photoexpansion. Proceedings of SPIE, 2017, , .	0.8	2
80	Loading the Antenna Gap with Two-Dimensional Electron Gas Transistors: A Versatile Approach for the Rectification of Free-Space Radiation. ACS Photonics, 2017, 4, 837-845.	6.6	2
81	Confocal Terahertz Imaging of Ancient Manuscripts. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 435-442.	2.2	14
82	Boosting infrared energy transfer in 3D nanoporous gold antennas. Nanoscale, 2017, 9, 915-922.	5.6	42
83	Heterogeneity of the Transmembrane Protein Conformation in Purple Membranes Identified by Infrared Nanospectroscopy. Small, 2017, 13, 1701181.	10.0	29
84	Optical properties of highly n-doped germanium obtained byin situdoping and laser annealing. Journal Physics D: Applied Physics, 2017, 50, 465103.	2.8	28
85	Electronic bands and optical conductivity of the Dzyaloshinsky-Moriya multiferroic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ba</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>7</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2017, 96, .	3.2	5
86	Near-Field Imaging of Free Carriers in ZnO Nanowires with a Scanning Probe Tip Made of Heavily Doped Germanium. Physical Review Applied, 2017, 8, .	3.8	14
87	Evanescent-Wave Filtering in Images Using Remote Terahertz Structured Illumination. Physical Review Applied, 2017, 8, .	3.8	1
88	Germanium-on-silicon waveguides for mid-infrared photonic sensing chips. , 2017, , .		0
89	Integrated germanium-on-silicon waveguides for mid-infrared photonic sensing chips. , 2017, , .		1
90	Mid-infrared n-Ge on Si plasmonic based microbolometer sensors. , 2017, , .		3

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91	Heavily-doped germanium on silicon with activated doping exceeding 1020 cmâ^'3 as an alternative to gold for mid-infrared plasmonics. , 2017, , .		0
92	n-Ge on Si for mid-infrared plasmonic sensors. , 2017, , .		5
93	Germanium nanoantennas for plasmon-enhanced third harmonic generation in the mid infrared. , 2017, , .		0
94	Mid-Infrared Third-Harmonic Emission from Heavily-Doped Germanium Plasmonic Nanoantennas. , 2017, , .		0
95	Super-resolved terahertz microscopy by knife-edge scan. , 2017, , .		1
96	Ge-on-Si Photonics for Mid-infrared Sensing Applications. MRS Advances, 2016, 1, 3269-3279.	0.9	0
97	Mapping the electromagnetic field confinement in the gap of germanium nanoantennas with plasma wavelength of 4.5 micrometers. Applied Physics Letters, 2016, 109, .	3.3	17
98	Mid-infrared intersubband absorption from p-Ge quantum wells on Si. , 2016, , .		0
99	Vibrational contrast imaging and nanospectroscopy of single cell membranes by mid-IR resonantly-enhanced mechanical photoexpansion. , 2016, , .		1
100	Germanium plasmonic nanoantennas for third-harmonic generation in the mid infrared. , 2016, , .		2
101	Benchmarking the use of heavily-doped Ge against noble metals for plasmonics and sensing in the mid-infrared. , 2016, , .		0
102	Germanium quantum fountain structures on silicon substrates. , 2016, , .		0
103	Mid-infrared plasmonic platform based on n-doped Ge-on-Si: Molecular sensing with germanium nano-antennas on Si. , 2016, , .		1
104	Mid-infrared intersubband absorption from p-Ge quantum wells grown on Si substrates. Applied Physics Letters, 2016, 108, .	3.3	22
105	Stabilization of the Tensile Strength of Aged Cellulose Paper by Cholinium-Amino Acid Ionic Liquid Treatment. Journal of Physical Chemistry C, 2016, 120, 24088-24097.	3.1	20
106	Tunability of the dielectric function of heavily doped germanium thin films for mid-infrared plasmonics. Physical Review B, 2016, 94, .	3.2	86
107	Protein clustering in chemically stressed HeLa cells studied by infrared nanospectroscopy. Nanoscale, 2016, 8, 17560-17567.	5.6	18
108	Hardening of the soft phonon in bulk<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></m with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaAlO</mml:mi><mml:mn>3</mml:mn></mml:msub></m xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>SrRuO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review B, 2016, 93, .	3.2	6

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109	Optical Activation of Germanium Plasmonic Antennas in the Mid-Infrared. Physical Review Letters, 2016, 117, 047401.	7.8	55
110	Mid-Infrared Sensing Using Heavily Doped Germanium Plasmonics on Silicon Substrates. ECS Transactions, 2016, 75, 247-251.	0.5	0
111	Mid-Infrared Intersubband Absorption from p-Ge Quantum Wells Grown on Si Substrates. ECS Transactions, 2016, 75, 253-256.	0.5	0
112	Intersubband absorption in p-Ge QWs on Si. , 2016, , .		0
113	Coupling of terahertz radiation to two-dimensional plasmons in a resonant cavity via an on-chip integrated cross-dipole antenna. , 2016, , .		0
114	Mapping the amide I absorption in single bacteria and mammalian cells with resonant infrared nanospectroscopy. Nanotechnology, 2016, 27, 075101.	2.6	51
115	Photoluminescence emission from a nanofabricated scanning probe tip made of epitaxial germanium. Microelectronic Engineering, 2016, 159, 164-168.	2.4	1
116	Recent advances in superhydrophobic surfaces and their relevance to biology and medicine. Bioinspiration and Biomimetics, 2016, 11, 011001.	2.9	44
117	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
118	Electron Dynamics in Siliconâ€“Germanium Terahertz Quantum Fountain Structures. ACS Photonics, 2016, 3, 403-414.	6.6	17
119	Fabrication of mid-infrared plasmonic antennas based on heavily doped germanium thin films. Thin Solid Films, 2016, 602, 52-55.	1.8	8
120	Heavily phosphorous-doped Germanium thin films for mid-infrared plasmonics. , 2015, , .		0
121	Group-IV midinfrared plasmonics. Journal of Nanophotonics, 2015, 9, 093789.	1.0	27
122	Time- and frequency-resolved electrodynamics of germanium nanoantennas for mid-infrared plasmonics. , 2015, , .		0
123	Mid-infrared intersubband absorption in p-Ge/SiGe quantum wells grown on Si. , 2015, , .		0
124	An integrated superhydrophobic-plasmonic biosensor for mid-infrared protein detection at the femtomole level. Physical Chemistry Chemical Physics, 2015, 17, 21337-21342.	2.8	27
125	Downconversion of terahertz radiation due to intrinsic hydrodynamic nonlinearity of a two-dimensional electron plasma. Physical Review B, 2015, 91, .	3.2	21
126	Three-dimensional fabrication of free-standing epitaxial semiconductor nanostructures obtained by focused ion beam. Microelectronic Engineering, 2015, 141, 168-172.	2.4	7

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127	Mid-infrared plasmonic resonances exploiting heavily-doped Ge on Si. Proceedings of SPIE, 2015, , .	0.8	1
128	Midinfrared Plasmon-Enhanced Spectroscopy with Germanium Antennas on Silicon Substrates. Nano Letters, 2015, 15, 7225-7231.	9.1	173
129	Mid-infrared plasmonic germanium antennas on silicon. , 2014, , .		1
130	Terahertz plasmon cavity modes in a heterostructure transistor. , 2014, , .		0
131	Mid-infrared plasmonic platform based on heavily doped epitaxial Ge-on-Si: Retrieving the optical constants of thin Ge epilayers. , 2014, , .		5
132	Physical mechanisms of intersubband-absorption linewidth broadening in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>s</mml:mi></mml:math>-Ge/SiGe quantum wells. Physical Review B, 2014, 90, .	3.2	25
133	Subharmonic mixing at 0.6 THz in an AlGaAs/InGaAs/AlGaAs field effect transistor. , 2014, , .		0
134	Combined effect of electron and lattice temperatures on the long intersubband relaxation times of Ge/SixGe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><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>quantum wells. Physical Review B, 2014, 89, .	3.2	14
135	Superconductivity-Induced Transparency in Terahertz Metamaterials. ACS Photonics, 2014, 1, 570-575.	6.6	47
136	Determination of the free carrier concentration in atomic-layer doped germanium thin films by infrared spectroscopy. Journal of Optics (United Kingdom), 2014, 16, 094010.	2.2	8
137	Observation of Dirac plasmons in a topological insulator. Nature Nanotechnology, 2013, 8, 556-560.	31.5	332
138	Field distribution and quality factor of surface plasmon resonances of metal meshes for mid-infrared sensing. Plasmonics, 2013, 8, 851-858.	3.4	10
139	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
140	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
141	The SPARC linear accelerator based terahertz source. Applied Physics Letters, 2013, 102, .	3.3	57
142	Antenna-coupled heterostructure field effect transistors for integrated terahertz heterodyne mixers. , 2013, , .		2
143	Fabrication of air-bridge sub-micron Schottky junctions on Ge/SOI for THz detection. Microelectronic Engineering, 2013, 110, 470-473.	2.4	1
144	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

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145	Analysis of CMOS 0.13µm test structures for 0.6 to 1.5 THz imaging. , 2013, , .		3
146	Intrinsic linewidth of the plasmonic resonance in a micrometric metal mesh. Optics Express, 2013, 21, 15401.	3.4	4
147	Differential Fano interference spectroscopy of subwavelength hole arrays for mid-infrared mass sensors. , 2013, , .		1
148	Intrinsic linewidth of the Fano resonance in a micrometric metal mesh. , 2013, , .		0
149	Mid-infrared plasmonic antennas made of electron-doped epitaxial germanium-on-silicon. , 2013, , .		1
150	Plasmonic excitations in Bi<inf>2</inf>Se<inf>3</inf> topological insulator. , 2013, , .		1
151	Responsivity at 0.27 THz of a heterostructure field effect transistor detector in a quasi-optical package. , 2013, , .		0
152	Sub-harmonic mixing at 591 GHz in AlGaAs/InGaAs two-dimensional electron gas transistors. , 2013, , .		0
153	Narrow intersubband transitions in n-type Ge/SiGe multi-quantum wells: control of the terahertz absorption energy trough the temperature dependent depolarization shift. Nanotechnology, 2012, 23, 465708.	2.6	25
154	Dark and bright surface plasmon resonances of metal meshes for mid-infrared sensing at the nanoscale. , 2012, , .		0
155	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
156	Modeling picosecond electron dynamics of pump-probe intersubband spectroscopy in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="bold-italic">n</mml:mi></mml:math>-type Ge/SiGe quantum wells. Physical Review B, 2012, 86, .	3.2	10
157	Fabrication and Characterization of Quasi-Optical Terahertz Nanorectifiers with Integrated Antennas. Journal of Physics: Conference Series, 2012, 359, 012017.	0.4	3
158	Mid-infrared nanoantenna arrays on silicon and CaF2 substrates for sensing applications. Microelectronic Engineering, 2012, 97, 197-200.	2.4	21
159	A terahertz oscillator based on GaN-HFET with integrated antenna for frequency mixing and rectification. , 2012, , .		0
160	Asymmetric double grating gate detector fabricated on industrial pseudomorphic AlGaAs/InGaAs/AlGaAs heterostructure. , 2012, , .		0
161	Terahertz spectroscopy of germanium quantum wells on silicon substrate for terahertz photonics. , 2012, , .		0
162	A survey of the Italian research in solid state physics by infrared spectroscopy with electron-beam sources. Journal of Physics: Conference Series, 2012, 359, 012001.	0.4	0

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163	A Fast Terahertz Spectrometer Based on Frequency Selective Surface Filters. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 505-512.	2.2	12
164	Operation of a Wideband Terahertz Superconducting Bolometer Responding to Quantum Cascade Laser Pulses. Journal of Low Temperature Physics, 2012, 167, 911-916.	1.4	2
165	Towards substrate removal in quasi-optical Schottky detector arrays. , 2011, , .		1
166	Fabrication and quantitative comparison of quasi-optical terahertz rectifiers with integrated antennas. , 2011, , .		0
167	Long intersubband relaxation times in n-type germanium quantum wells. Applied Physics Letters, 2011, 99, .	3.3	26
168	Substrateless micrometric metal mesh for mid-infrared plasmonic sensors. Applied Physics A: Materials Science and Processing, 2011, 103, 627-630.	2.3	7
169	Fabrication of Schottky diodes for terahertz imaging. Microelectronic Engineering, 2011, 88, 2544-2546.	2.4	11
170	Scaling the spectral response of metamaterial dipolar filters in the terahertz. Optics Communications, 2011, 284, 1690-1693.	2.1	9
171	Three-dimensional shaping of sub-micron GaAs Schottky junctions for zero-bias terahertz rectification. Applied Physics Letters, 2011, 99, .	3.3	14
172	Infrared and transport properties of LuFe2O4under electric fields. Physical Review B, 2011, 84, .	3.2	8
173	Visualizing coherent phonon propagation in the 100 GHz range: A broadband picosecond acoustics approach. , 2011, , .		0
174	Midinfrared surface plasmon sensor based on a substrateless metal mesh. Applied Physics Letters, 2011, 98, 091902.	3.3	30
175	Visualizing coherent phonon propagation in the 100 GHz range: A broadband picosecond acoustics approach. Applied Physics Letters, 2011, 98, 011901.	3.3	37
176	Monolithic focal plane arrays for terahertz active spectroscopic imaging: an experimental study. , 2011, , .		1
177	Response to â€œComment on â€˜Visualizing coherent phonon propagation in the 100 GHz range: A broadband picosecond acoustic approachâ€™â€•[Appl. Phys. Lett. 98, 246101 (2011)]. Applied Physics Letters, 2011, 98, 246102.	3.3	2
178	Fabrication of Planar Sub-Micron Schottky Diodes for Terahertz Imaging Applications. Lecture Notes in Electrical Engineering, 2011, , 247-251.	0.4	1
179	Superconducting microbolometer with microsecond time constant coupled to quantum cascade lasers. , 2010, , .		0
180	Trilayer Electron-beam Lithography and surface preparation for sub-micron Schottky contacts on GaAs heterostructures. , 2010, , .		1

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