

# Michele Ortolani

## List of Publications by Year in descending order

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245  
papers

3,381  
citations

172386

29  
h-index

189801

50  
g-index

246  
all docs

246  
docs citations

246  
times ranked

4189  
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Dirac plasmons in a topological insulator. <i>Nature Nanotechnology</i> , 2013, 8, 556-560.	15.6	332
2	Midinfrared Plasmon-Enhanced Spectroscopy with Germanium Antennas on Silicon Substrates. <i>Nano Letters</i> , 2015, 15, 7225-7231.	4.5	173
3	Performance of SISSI, the infrared beamline of the ELETTRA storage ring. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 959.	0.9	121
4	Surface roughness effects on the terahertz reflectance of pure explosive materials. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	88
5	Tunability of the dielectric function of heavily doped germanium thin films for mid-infrared plasmonics. <i>Physical Review B</i> , 2016, 94, .	1.1	86
6	Quasiparticle evolution and pseudogap formation in $V_2O_3$ : An infrared spectroscopy study. <i>Physical Review B</i> , 2008, 77, .	1.1	73
7	Phase Diagram of $La_2-xSrxCuO_4$ Probed in the Infrared: Imprints of Charge Stripe Excitations. <i>Physical Review Letters</i> , 2003, 90, 037002.	2.9	70
8	Temperature Dependence of the Optical Spectral Weight in the Cuprates: Role of Electron Correlations. <i>Physical Review Letters</i> , 2005, 95, 097002.	2.9	62
9	Observation of Charge-Density-Wave Excitations in Manganites. <i>Physical Review Letters</i> , 2008, 101, 066407.	2.9	61
10	Frequency-Dependent Thermal Response of the Charge System and the Restricted Sum Rules of $La_2-xSrxCuO_4$ . <i>Physical Review Letters</i> , 2005, 94, 067002.	2.9	59
11	The SPARC linear accelerator based terahertz source. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	57
12	Low loss Ge-on-Si waveguides operating in the $8\text{--}14\ \mu\text{m}$ atmospheric transmission window. <i>Optics Express</i> , 2018, 26, 25667.	1.7	56
13	Low-Energy Electrodynamics of Superconducting Diamond. <i>Physical Review Letters</i> , 2006, 97, 097002.	2.9	55
14	Optical Activation of Germanium Plasmonic Antennas in the Mid-Infrared. <i>Physical Review Letters</i> , 2016, 117, 047401.	2.9	55
15	Mapping the amide I absorption in single bacteria and mammalian cells with resonant infrared nanospectroscopy. <i>Nanotechnology</i> , 2016, 27, 075101.	1.3	51
16	Superconductivity-Induced Transparency in Terahertz Metamaterials. <i>ACS Photonics</i> , 2014, 1, 570-575.	3.2	47
17	Room temperature operation of <i>n</i> -type Ge/SiGe terahertz quantum cascade lasers predicted by non-equilibrium Green's functions. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	45
18	Recent advances in superhydrophobic surfaces and their relevance to biology and medicine. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 011001.	1.5	44

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19	Boosting infrared energy transfer in 3D nanoporous gold antennas. <i>Nanoscale</i> , 2017, 9, 915-922.	2.8	42
20	Plasmonic mid-infrared third harmonic generation in germanium nanoantennas. <i>Light: Science and Applications</i> , 2018, 7, 106.	7.7	42
21	Optical conductivity of single crystals of $\text{Na}_{0.57}\text{CoO}_2$ . <i>Physical Review B</i> , 2004, 69, .	1.1	41
22	Raman scattering versus infrared conductivity: Evidence for one-dimensional conduction in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ . <i>Physical Review B</i> , 2002, 66, .	1.1	40
23	Near- and far-infrared absorption and electronic structure of Ge-SiGe multiple quantum wells. <i>Physical Review B</i> , 2010, 82, .	1.1	37
24	Visualizing coherent phonon propagation in the 100 GHz range: A broadband picosecond acoustics approach. <i>Applied Physics Letters</i> , 2011, 98, 011901.	1.5	37
25	Tip-Enhanced Infrared Difference-Nanospectroscopy of the Proton Pump Activity of Bacteriorhodopsin in Single Purple Membrane Patches. <i>Nano Letters</i> , 2019, 19, 3104-3114.	4.5	36
26	Microspectroscopic detection of local conducting areas generated by electric-pulse-induced phase transition in $\text{VO}_2$ films. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	33
27	Fractal-Like Plasmonic Metamaterial with a Tailorable Plasma Frequency in the near-Infrared. <i>ACS Photonics</i> , 2018, 5, 3408-3414.	3.2	32
28	Benchmarking the Use of Heavily Doped Ge for Plasmonics and Sensing in the Mid-Infrared. <i>ACS Photonics</i> , 2018, 5, 3601-3607.	3.2	31
29	Midinfrared surface plasmon sensor based on a substrateless metal mesh. <i>Applied Physics Letters</i> , 2011, 98, 091902.	1.5	30
30	Far-Infrared Absorption and the Metal-to-Insulator Transition in Hole-Doped Cuprates. <i>Physical Review Letters</i> , 2009, 102, 206409.	2.9	29
31	Heterogeneity of the Transmembrane Protein Conformation in Purple Membranes Identified by Infrared Nanospectroscopy. <i>Small</i> , 2017, 13, 1701181.	5.2	29
32	Optical properties of highly n-doped germanium obtained by <i>in situ</i> doping and laser annealing. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 465103.	1.3	28
33	Group-IV midinfrared plasmonics. <i>Journal of Nanophotonics</i> , 2015, 9, 093789.	0.4	27
34	An integrated superhydrophobic-plasmonic biosensor for mid-infrared protein detection at the femtomole level. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21337-21342.	1.3	27
35	Conduction band intersubband transitions in Ge/SiGe quantum wells. <i>Applied Physics Letters</i> , 2009, 95, 051918.	1.5	26
36	Multiband conductivity and a multigap superconducting phase in $\text{V}_3\text{Si}$ from optical measurements at terahertz frequencies. <i>Physical Review B</i> , 2010, 81, .	1.1	26

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37	Long intersubband relaxation times in $n$ -type germanium quantum wells. Applied Physics Letters, 2011, 99, .	1.5	26
38	Out-of-Equilibrium Collective Oscillation as Phonon Condensation in a Model Protein. Physical Review X, 2018, 8, .	2.8	26
39	Plasmonic Superchiral Lattice Resonances in the Mid-Infrared. ACS Photonics, 2020, 7, 2676-2681.	3.2	26
40	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.	1.3	25
41	Physical mechanisms of intersubband-absorption linewidth broadening in $\text{Ge/SiGe}$ quantum wells. Physical Review B, 2014, 90, .	1.1	25
42	Control of Electron-State Coupling in Asymmetric $\text{Si-Ge/SiGe}$ Quantum Wells. Physical Review Applied, 2019, 11, .	1.5	25
43	Microplastic pollution in perch ( <i>Perca fluviatilis</i> , Linnaeus 1758) from Italian south-alpine lakes. Environmental Pollution, 2021, 288, 117782.	3.7	25
44	Pump-probe spectroscopy study of ultrafast temperature dynamics in nanoporous gold. Physical Review B, 2019, 99, .	1.1	24
45	Clean and dirty superconductivity in pure, Al-doped, and neutron irradiated $\text{MgB}_2$ : A far-infrared study. Physical Review B, 2005, 71, .	1.1	22
46	Two-band parallel conductivity at terahertz frequencies in the superconducting state of $\text{MgB}_2$ . Physical Review B, 2008, 77, .	1.1	22
47	Mid-Infrared Surface Plasmon Polariton Sensors Resonant with the Vibrational Modes of Phospholipid Layers. Journal of Physical Chemistry C, 2013, 117, 19119-19126.	1.5	22
48	Mid-infrared intersubband absorption from $p$ -Ge quantum wells grown on Si substrates. Applied Physics Letters, 2016, 108, .	1.5	22
49	Mid-infrared nanoantenna arrays on silicon and $\text{CaF}_2$ substrates for sensing applications. Microelectronic Engineering, 2012, 97, 197-200.	1.1	21
50	Downconversion of terahertz radiation due to intrinsic hydrodynamic nonlinearity of a two-dimensional electron plasma. Physical Review B, 2015, 91, .	1.1	21
51	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.	2.6	21
52	Ultra-broadband mid-infrared Ge-on-Si waveguide polarization rotator. APL Photonics, 2020, 5, 026102.	3.0	21
53	Optical conductivity and charge ordering in $\text{Na}_x\text{CoO}_2$ . Physical Review B, 2005, 72, .	1.1	20
54	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.	1.5	20

#	ARTICLE	IF	CITATIONS
55	Modeling of second harmonic generation in hole-doped silicon-germanium quantum wells for mid-infrared sensing. Optics Express, 2018, 26, 31861.	1.7	20
56	Time-resolved visualization of the heat flow in VO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> films. Applied Physics Letters, 2007, 90, 051907.	1.5	19
57	Terahertz current oscillations in a gated two-dimensional electron gas with antenna integrated at the channel ends. Applied Physics Letters, 2012, 100, .	1.5	19
58	N-type heavy doping with ultralow resistivity in Ge by Sb deposition and pulsed laser melting. Applied Surface Science, 2020, 509, 145229.	3.1	19
59	Infrared properties of Mg <sub>1-x</sub> Al <sub>x</sub> (Bi <sub>1-y</sub> Cy) <sub>2</sub> single crystals in the normal and superconducting state. Physical Review B, 2006, 73, .	1.1	18
60	Protein clustering in chemically stressed HeLa cells studied by infrared nanospectroscopy. Nanoscale, 2016, 8, 17560-17567.	2.8	18
61	Thermoplasmonic Effect of Surface-Enhanced Infrared Absorption in Vertical Nanoantenna Arrays. Journal of Physical Chemistry C, 2018, 122, 13072-13081.	1.5	18
62	Subterahertz electrodynamics of the graphenelike superconductor CaAlSi. Physical Review B, 2008, 77, .	1.1	17
63	Mapping the electromagnetic field confinement in the gap of germanium nanoantennas with plasma wavelength of 4.5 micrometers. Applied Physics Letters, 2016, 109, .	1.5	17
64	Electron Dynamics in Silicon-Germanium Terahertz Quantum Fountain Structures. ACS Photonics, 2016, 3, 403-414.	3.2	17
65	Wide dynamic range terahertz detector pixel for active spectroscopic imaging with quantum cascade lasers. Applied Physics Letters, 2009, 95, .	1.5	16
66	Observation of phonon-polaritons in thin flakes of hexagonal boron nitride on gold. Applied Physics Letters, 2018, 112, .	1.5	16
67	Interfacial sharpness and intermixing in a Ge-SiGe multiple quantum well structure. Journal of Applied Physics, 2018, 123, .	1.1	16
68	Spectral Characterization of Mid-Infrared Bloch Surface Waves Excited on a Truncated 1D Photonic Crystal. ACS Photonics, 2021, 8, 350-359.	3.2	16
69	Plasmon-enhanced Ge-based metal-semiconductor-metal photodetector at near-IR wavelengths. Optics Express, 2019, 27, 20516.	1.7	16
70	Heterodyne and subharmonic mixing at 0.6 THz in an AlGaAs/InGaAs/AlGaAs heterostructure field effect transistor. Applied Physics Letters, 2013, 103, 093505.	1.5	15
71	THz intersubband electroluminescence from n-type Ge/SiGe quantum cascade structures. Applied Physics Letters, 2021, 118, .	1.5	15
72	Anisotropic optical conductivity of $\text{Sr}^3\text{d}^4$ Physical Review B, 2008, 78, .		

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73	Three-dimensional shaping of sub-micron GaAs Schottky junctions for zero-bias terahertz rectification. Applied Physics Letters, 2011, 99, .	1.5	14
74	Combined effect of electron and lattice temperatures on the long intersubband relaxation times of Ge/Si<math>x</math>/Ge<math>x</math>. Physical Review B, 2014, 89, .	1.1	14
75	Confocal Terahertz Imaging of Ancient Manuscripts. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 435-442.	1.2	14
76	Near-Field Imaging of Free Carriers in ZnO Nanowires with a Scanning Probe Tip Made of Heavily Doped Germanium. Physical Review Applied, 2017, 8, .	1.5	14
77	Guided mode resonance flat-top bandpass filter for terahertz telecom applications. Optics Letters, 2019, 44, 4239.	1.7	14
78	Topologically protected Dirac plasmons and their evolution across the quantum phase transition in a (Bi<sub>1-x</sub>In<sub>x</sub>)<sub>2</sub>Se<sub>3</sub> topological insulator. Nanoscale, 2016, 8, 4667-4671.	2.8	13
79	Nanospectroscopy of a single patch antenna strongly coupled to a mid-infrared intersubband transition in a quantum well. Applied Physics Letters, 2020, 117, .	1.5	13
80	Free electron nonlinearities in heavily doped semiconductors plasmonics. Physical Review B, 2021, 103, .	1.1	13
81	Second Harmonic Generation in Germanium Quantum Wells for Nonlinear Silicon Photonics. ACS Photonics, 2021, 8, 3573-3582.	3.2	13
82	Effects of superconductivity and charge order on the subterahertz reflectivity of La <sub>1.875</sub> Ba <sub>0.125</sub> YCuO <sub>4</sub> . Physical Review B, 2006, 73, .	1.1	12
83	Technical Report: THz Experiments with Coherent Synchrotron Radiation from BESSY II. Synchrotron Radiation News, 2007, 20, 17-24.	0.2	12
84	A Fast Terahertz Spectrometer Based on Frequency Selective Surface Filters. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 505-512.	1.2	12
85	Terahertz absorption-saturation and emission from electron-doped germanium quantum wells. Optics Express, 2020, 28, 7245.	1.7	12
86	Terahertz intersubband absorption and conduction band alignment in Si/SiGe multiple quantum wells. Physical Review B, 2009, 79, .	1.1	11
87	Fabrication of Schottky diodes for terahertz imaging. Microelectronic Engineering, 2011, 88, 2544-2546.	1.1	11
88	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.	2.0	11
89	Intersubband Transition Engineering in the Conduction Band of Asymmetric Coupled Ge/SiGe Quantum Wells. Crystals, 2020, 10, 179.	1.0	11
90	Design and simulation of losses in Ge/SiGe terahertz quantum cascade laser waveguides. Optics Express, 2020, 28, 4786.	1.7	11

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91	Characterization of Temperature-Dependent Iron <sup>2+</sup> Imidazole Vibrational Modes in Far Infrared. Journal of Physical Chemistry B, 2007, 111, 14418-14422.	1.2	10
92	Modeling picosecond electron dynamics of pump-probe intersubband spectroscopy in $n$ -type Ge/SiGe quantum wells. Physical Review B, 2012, 86, .	1.1	10
93	Field distribution and quality factor of surface plasmon resonances of metal meshes for mid-infrared sensing. Plasmonics, 2013, 8, 851-858.	1.8	10
94	A Superconducting Bolometer Antenna-Coupled to Terahertz Waves. Journal of Low Temperature Physics, 2009, 154, 142-149.	0.6	9
95	Scaling the spectral response of metamaterial dipolar filters in the terahertz. Optics Communications, 2011, 284, 1690-1693.	1.0	9
96	Characterization of integrated waveguides by atomic-force-microscopy-assisted mid-infrared imaging and spectroscopy. Optics Express, 2020, 28, 22186.	1.7	9
97	Lucarelliet al. Reply. Physical Review Letters, 2003, 91, .	2.9	8
98	Infrared and transport properties of LuFe <sub>2</sub> O <sub>4</sub> under electric fields. Physical Review B, 2011, 84, .	1.1	8
99	Determination of the free carrier concentration in atomic-layer doped germanium thin films by infrared spectroscopy. Journal of Optics (United Kingdom), 2014, 16, 094010.	1.0	8
100	Fabrication of mid-infrared plasmonic antennas based on heavily doped germanium thin films. Thin Solid Films, 2016, 602, 52-55.	0.8	8
101	Functionalization of Scanning Probe Tips with Epitaxial Semiconductor Layers. Small Methods, 2017, 1, 1600033.	4.6	8
102	Infrared study of the quasi-two-dimensional electron system at the interface between crystalline or amorphous $\text{SrTiO}_3$ and $\text{LaAlO}_3$ . Physical Review B, 2018, 97, .	1.1	8
103	THz intersubband absorption in $n$ -type $\text{Si}^{\delta-}/\text{Ge}^{\delta+}$ parabolic quantum wells. Applied Physics Letters, 2021, 118, .	1.5	8
104	Conformational changes of a membrane protein determined by infrared difference spectroscopy beyond the diffraction limit. Physical Review Applied, 2021, 16, .	1.5	8
105	Experimental uncertainty in the far-infrared reflectivity of uniaxial superconductors. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 1994.	0.9	7
106	Electric-pulse-induced local conducting area and joule heating effect in VO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> films. Infrared Physics and Technology, 2008, 51, 443-445.	1.3	7
107	Substrateless micrometric metal mesh for mid-infrared plasmonic sensors. Applied Physics A: Materials Science and Processing, 2011, 103, 627-630.	1.1	7
108	Three-dimensional fabrication of free-standing epitaxial semiconductor nanostructures obtained by focused ion beam. Microelectronic Engineering, 2015, 141, 168-172.	1.1	7

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109	Electron-phonon coupling in $n$ -type Ge two-dimensional systems. Physical Review B, 2020, 102, .	1.1	7
110	Infrared Nanospectroscopy of Individual Extracellular Microvesicles. Molecules, 2021, 26, 887.	1.7	7
111	Transport and microscopic investigations on the electric-pulse-induced phase transition of VO <sub>2</sub> films. Physica C: Superconductivity and Its Applications, 2007, 460-462, 549-550.	0.6	6
112	Study of the optical gap in novel superconductors by coherent THz radiation. Infrared Physics and Technology, 2008, 51, 429-432.	1.3	6
113	Hardenening of the soft phonon in bulk $\text{SrTiO}_3$ with $\text{LaAlO}_3$ . Physical Review Letters, 2011, 106, 115501.	1.1	6
114	Infrared Spectroscopy of the Topological Surface States of $\text{Bi}_2\text{Te}_3$ by Use of the Berreman Effect. Physical Review Letters, 2018, 121, 176803.	2.9	6
115	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, .	0.9	5
116	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.	1.2	5
117	Mid-infrared plasmonic platform based on heavily doped epitaxial Ge-on-Si: Retrieving the optical constants of thin Ge epilayers. , 2014, , .		5
118	Electronic bands and optical conductivity of the Dzyaloshinsky-Moriya multiferroic $\text{Ba}_7\text{O}_7$ . Physical Review B, 2017, 96, .	1.1	5
119	$n$ -Ge on Si for mid-infrared plasmonic sensors. , 2017, , .		5
120	Nanoscale thermal gradients activated by antenna-enhanced molecular absorption in the mid-infrared. Applied Physics Letters, 2019, 114, 023105.	1.5	5
121	Electron Population Dynamics in Optically Pumped Asymmetric Coupled Ge/SiGe Quantum Wells: Experiment and Models. Photonics, 2020, 7, 2.	0.9	5
122	Sub-Terahertz Excitations in Manganites with Commensurate Charge Order. Journal of Superconductivity and Novel Magnetism, 2009, 22, 13-16.	0.8	4
123	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.	1.0	4
124	Intrinsic linewidth of the plasmonic resonance in a micrometric metal mesh. Optics Express, 2013, 21, 15401.	1.7	4
125	Disentangling elastic and inelastic scattering pathways in the intersubband electron dynamics of $n$ -type Ge/SiGe quantum fountains. Physical Review B, 2020, 101, .	1.1	4
126	The Optical Conductivity of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ in Connection with a Charge Stripe Scenario. Journal of Superconductivity and Novel Magnetism, 2004, 17, 131-136.	0.5	3



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127	Detection of terahertz radiation by AlGaIn/GaN field-effect transistors. , 2009, , .		3
128	Fabrication and Characterization of Quasi-Optical Terahertz Nanorectifiers with Integrated Antennas. Journal of Physics: Conference Series, 2012, 359, 012017.	0.3	3
129	Analysis of CMOS 0.13&#x00B5;m test structures for 0.6 to 1.5 THz imaging. , 2013, , .		3
130	Mid-infrared n-Ge on Si plasmonic based microbolometer sensors. , 2017, , .		3
131	Low loss germanium-on-silicon waveguides for integrated mid-infrared photonics. , 2019, , .		3
132	Free electron harmonic generation in heavily doped semiconductors: the role of the materials properties. EPJ Applied Metamaterials, 2022, 9, 13.	0.8	3
133	Imprints of charge stripe excitations in the infrared conductivity of La <sub>2</sub> xSr <sub>x</sub> CuO <sub>4</sub> . Physica C: Superconductivity and Its Applications, 2004, 408-410, 439-440.	0.6	2
134	Fourier-transform far-infrared spectroscopic ellipsometry for standoff material identification. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 791-793.	0.7	2
135	Micromachined arrays of air-bridge GaAs Schottky diodes for THz cameras. , 2010, , .		2
136	Response to "Comment on "Visualizing coherent phonon propagation in the 100 GHz range: A broadband picosecond acoustic approach" [Appl. Phys. Lett. 98, 246101 (2011)]. Applied Physics Letters, 2011, 98, 246102.	1.5	2
137	Operation of a Wideband Terahertz Superconducting Bolometer Responding to Quantum Cascade Laser Pulses. Journal of Low Temperature Physics, 2012, 167, 911-916.	0.6	2
138	Antenna-coupled heterostructure field effect transistors for integrated terahertz heterodyne mixers. , 2013, , .		2
139	Germanium plasmonic nanoantennas for third-harmonic generation in the mid infrared. , 2016, , .		2
140	Nanospectroscopy of single purple membranes by mid-IR resonantly-enhanced mechanical photoexpansion. Proceedings of SPIE, 2017, , .	0.8	2
141	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.	3.2	2
142	Infrared spectroscopy of two-dimensional electron systems. European Physical Journal: Special Topics, 2019, 228, 669-673.	1.2	2
143	Cross-Correlation of THz Pulses from the Electron Storage Ring BESSY II. Condensed Matter, 2020, 5, 24.	0.8	2
144	Infrared nanospectroscopy and nanoimaging of individual cell membranes and microvesicles exposed to air. OSA Continuum, 2020, 3, 2564.	1.8	2

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145	An infrared study of the superconducting diamond. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 2945-2949.	0.8	1
146	Development of a THz heterodyne receiver with quantum cascade laser and hot electron bolometer mixer for standoff detection of explosive material. Proceedings of SPIE, 2009, , .	0.8	1
147	Trilayer Electron-beam Lithography and surface preparation for sub-micron Schottky contacts on GaAs heterostructures. , 2010, , .		1
148	Optical characterization of a superconducting hotspot air-bridge bolometer. , 2010, , .		1
149	Substrateless micrometric metal mesh for mid-infrared plasmonic sensors. , 2010, , .		1
150	Bandpass filters in the terahertz range based on Al-on-Si metasurfaces. , 2010, , .		1
151	Towards substrate removal in quasi-optical Schottky detector arrays. , 2011, , .		1
152	Monolithic focal plane arrays for terahertz active spectroscopic imaging: an experimental study. , 2011, , .		1
153	Fabrication of air-bridge sub-micron Schottky junctions on Ge/SOI for THz detection. Microelectronic Engineering, 2013, 110, 470-473.	1.1	1
154	Differential Fano interference spectroscopy of subwavelength hole arrays for mid-infrared mass sensors. , 2013, , .		1
155	Mid-infrared plasmonic antennas made of electron-doped epitaxial germanium-on-silicon. , 2013, , .		1
156	Plasmonic excitations in Bi <sub>2</sub> Se <sub>3</sub> topological insulator. , 2013, , .		1
157	Mid-infrared plasmonic germanium antennas on silicon. , 2014, , .		1
158	Mid-infrared plasmonic resonances exploiting heavily-doped Ge on Si. Proceedings of SPIE, 2015, , .	0.8	1
159	Vibrational contrast imaging and nanospectroscopy of single cell membranes by mid-IR resonantly-enhanced mechanical photoexpansion. , 2016, , .		1
160	Mid-infrared plasmonic platform based on n-doped Ge-on-Si: Molecular sensing with germanium nano-antennas on Si. , 2016, , .		1
161	Photoluminescence emission from a nanofabricated scanning probe tip made of epitaxial germanium. Microelectronic Engineering, 2016, 159, 164-168.	1.1	1
162	Evanescent-Wave Filtering in Images Using Remote Terahertz Structured Illumination. Physical Review Applied, 2017, 8, .	1.5	1

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163	Integrated germanium-on-silicon waveguides for mid-infrared photonic sensing chips. , 2017, , .		1
164	High conductivity of ultrathin nanoribbons of SrRuO <sub>3</sub> on SrTiO <sub>3</sub> probed by infrared spectroscopy. Scientific Reports, 2018, 8, 15217.	1.6	1
165	Fabrication of Planar Sub-Micron Schottky Diodes for Terahertz Imaging Applications. Lecture Notes in Electrical Engineering, 2011, , 247-251.	0.3	1
166	Fingerprint mid-infrared sensing with germanium on silicon waveguides. , 2019, , .		1
167	Free electron cascaded third-harmonic generation. , 2021, , .		1
168	Super-resolved terahertz microscopy by knife-edge scan. , 2017, , .		1
169	Mid-infrared second harmonic generation in Ge/SiGe coupled quantum wells. , 2020, , .		1
170	Use of coherent synchrotron radiation in a study on cuprates exhibiting superconductivity and charge order. Infrared Physics and Technology, 2006, 49, 7-12.	1.3	0
171	Sub-Terahertz spectroscopy of superconducting diamond. , 2006, , .		0
172	THz Transmittance and Reflectance Spectroscopy on Security-relevant Materials using Synchrotron Radiation. , 2006, , .		0
173	Optical spectral weight anomalies and strong correlation. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1045-1046.	0.6	0
174	Infrared study of a micrometric transistor channel. Physica B: Condensed Matter, 2008, 403, 1922-1926.	1.3	0
175	THECAMAP: Terahertz Camera for Medical Application. , 2008, , .		0
176	THz performance of the infrared beamline at BESSY. , 2008, , .		0
177	Homodyne mixing at 150 GHz in a high electron mobility transistor. , 2008, , .		0
178	The ENEA activity on applications with FELs. , 2009, , .		0
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