Riccardo Degl Innocenti

List of Publications by Citations

43 papers	1,171 citations	18 h-index	33 g-index
53 ext. papers	1,462 ext. citations	5.6 avg, IF	3.99 L-index

#	Paper	IF	Citations
43	Electro□ptically tunable microring resonators in lithium niobate. *Nature Photonics*, **2007**, 1, 407-410	33.9	378
42	Low-bias terahertz amplitude modulator based on split-ring resonators and graphene. *ACS Nano*, **2014**, 8, 2548-54	16.7	106
41	Active Control of Electromagnetically Induced Transparency in a Terahertz Metamaterial Array with Graphene for Continuous Resonance Frequency Tuning. *Advanced Optical Materials*, **2018**, 6, 1800570	8.1	56
40	All-integrated terahertz modulators. *Nanophotonics*, **2018**, 7, 127-144	6.3	48
39	Terahertz confocal microscopy with a quantum cascade laser source. *Optics Express*, **2012**, 20, 21924-31	3.3	42
38	Magneto-optic transmittance modulation observed in a hybrid graphene□split ring resonator terahertz metasurface. *Applied Physics Letters*, **2015**, 107, 121104	3.4	35
37	Hyperuniform disordered terahertz quantum cascade laser. *Scientific Reports*, **2016**, 6, 19325	4.9	32
36	Nonadiabatic switching of a photonic band structure: Ultrastrong light-matter coupling and slow-down of light. *Physical Review B*, **2012**, 85,	3.3	31
35	Fast Modulation of Terahertz Quantum Cascade Lasers Using Graphene Loaded Plasmonic Antennas. *ACS Photonics*, **2016**, 3, 464-470	6.3	30
34	Fast Room-Temperature Detection of Terahertz Quantum Cascade Lasers with Graphene-Loaded Bow-Tie Plasmonic Antenna Arrays. *ACS Photonics*, **2016**, 3, 1747-1753	6.3	29
33	Directional PC12 cell migration along plastic nanotracks. *IEEE Transactions on Biomedical Engineering*, **2009**, 56, 2692-6	5	28
32	Terahertz Nanoscopy of Plasmonic Resonances with a Quantum Cascade Laser. *ACS Photonics*, **2017**, 4, 2150-2157	6.3	26
31	Intersubband polaritons in a one-dimensional surface plasmon photonic crystal. *Applied Physics Letters*, **2010**, 97, 231123	3.4	22
30	Graphene-Integrated Metamaterial Device for All-Electrical Polarization Control of Terahertz Quantum Cascade Lasers. *ACS Photonics*, **2019**, 6, 1547-1555	6.3	21
29	Second harmonic generation of continuous wave ultraviolet light and production of □BaB2O4 optical waveguides. *Applied Physics Letters*, **2006**, 89, 041103	3.4	21
28	External amplitude and frequency modulation of a terahertz quantum cascade laser using metamaterial/graphene devices. *Scientific Reports*, **2017**, 7, 7657	4.9	19
27	Contactless graphene conductivity mapping on a wide range of substrates with terahertz time-domain reflection spectroscopy. *Scientific Reports*, **2017**, 7, 10625	4.9	19

26	Fast terahertz imaging using a quantum cascade amplifier. *Applied Physics Letters*, **2015**, 107, 011107	3.4	19
25	Bolometric detection of terahertz quantum cascade laser radiation with graphene-plasmonic antenna arrays. *Journal Physics D: Applied Physics*, **2017**, 50, 174001	3	17
24	Ultrafast optical bleaching of intersubband cavity polaritons. *Physical Review B*, **2012**, 86,	3.3	17
23	A Terahertz Chiral Metamaterial Modulator. *Advanced Optical Materials*, **2020**, 8, 2000581	8.1	15
22	Terahertz optical modulator based on metamaterial split-ring resonators and graphene. *Optical Engineering*, **2014**, 53, 057108	1.1	14
21	Analysis of line shapes and strong coupling with intersubband transitions in one-dimensional metallodielectric photonic crystal slabs. *Physical Review B*, **2012**, 85,	3.3	13
20	Ultraviolet electro-optic amplitude modulation in □BaB2O4 waveguides. *Applied Physics Letters*, **2007**, 91, 051105	3.4	13
19	Graphene-loaded metal wire grating for deep and broadband THz modulation in total internal reflection geometry. *Photonics Research*, **2018**, 6, 1151	6	13
18	Hollow metallic waveguides integrated with terahertz quantum cascade lasers. *Optics Express*, **2014** , 22, 24439-49	3.3	12
17	UV integrated optics devices based on beta-barium borate. *Optical Materials*, **2009**, 31, 1049-1053	3.3	12
16	Optical waveguides in Sn(2)P(2)S(6) by low fluence MeV He+ ion implantation. *Optics Express*, **2006**, 14, 2344-58	3.3	9
15	Continuous-wave laser operation of a dipole antenna terahertz microresonator. *Light: Science and Applications*, **2017**, 6, e17054	16.7	8
14	Terahertz probe of individual subwavelength objects in a water environment. *Laser and Photonics Reviews*, **2014**, 8, 734-742	8.3	7
13	A hybrid plasmonic waveguide terahertz quantum cascade laser. *Applied Physics Letters*, **2015**, 106, 082101	3.4	7
12	One-dimensional surface-plasmon gratings for the excitation of intersubband polaritons in suspended membranes. *Solid State Communications*, **2011**, 151, 1725-1727	1.6	7
11	UV second harmonic generation at 266 nm in He+ implanted beta-BaB2O4 optical waveguides. *Optics Express*, **2008**, 16, 11660-9	3.3	7
10	Cr:LiSrAlF6 channel waveguides as broadband fluorescence sources. *Applied Physics B: Lasers and Optics*, **2007**, 88, 205-209	1.9	7
9	Efficient coupling of double-metal terahertz quantum cascade lasers to flexible dielectric-lined hollow metallic waveguides. *Optics Express*, **2015**, 23, 26276-87	3.3	5

8	External cavity terahertz quantum cascade laser with a metamaterial/graphene optoelectronic mirror. *Applied Physics Letters*, **2020**, 117, 041105	3.4	5
7	Amplitude stabilization and active control of a terahertz quantum cascade laser with a graphene loaded split-ring-resonator array. *Applied Physics Letters*, **2018**, 112, 201102	3.4	5
6	Fast terahertz optoelectronic amplitude modulator based on plasmonic metamaterial antenna arrays and graphene **2016**,		2
5	An in-plane photoelectric effect in two-dimensional electron systems for terahertz detection.. *Science Advances*, **2022**, 8, eabi8398	14.3	2
4	Line-defect photonic crystal terahertz quantum cascade laser. *Journal of Applied Physics*, **2019**, 126, 153104	2.5	1
3	Tunable polarization-induced Fano resonances in stacked wire-grid metasurfaces. *Communications Physics*, **2021**, 4,	5.4	1
2	Laser pyrolysis in papers and patents. *Journal of Intelligent Manufacturing*,1	6.7	1
1	A Pioneering Project on Laser Pyrolysis Based Entirely on TRIZ. *IFIP Advances in Information and Communication Technology*, **2021**, 288-298	0.5	