Angela Vasanelli

List of Publications by Year
in descending order

62 papers	1,454 citations	304743 22 h-index	315739 38 g-index
62 all docs	62 docs citations	62 times ranked	1430 citing authors

#	Article	IF	Citations
1	10 Gbit s^{â^'1} Free Space Data Transmission at 9ÂÂµm Wavelength With Unipolar Quantum Optoelectronics (Laser Photonics Rev. 16(2)/2022). Laser and Photonics Reviews, 2022, 16, .	8.7	1
2	Broadband Enhancement of Midâ€Wave Infrared Absorption in a Multiâ€Resonant Nanocrystalâ€Based Device. Advanced Optical Materials, 2022, 10, .	7.3	12
3	Ultrafast Detection of TeraHertz Radiation with Miniaturized Optomechanical Resonator Driven by Dielectric Driving Force. ACS Photonics, 2022, 9, 1541-1546.	6.6	6
4	10 Gbit s^{â^'1} Free Space Data Transmission at 9ÂÂµm Wavelength With Unipolar Quantum Optoelectronics. Laser and Photonics Reviews, 2022, 16, .	8.7	35
5	Metamaterial engineering for optimized photon absorption in unipolar quantum devices. Optics Express, 2022, 30, 20515.	3.4	3
6	Broadband Enhancement of Midâ€Wave Infrared Absorption in a Multiâ€Resonant Nanocrystalâ€Based Device (Advanced Optical Materials 9/2022). Advanced Optical Materials, 2022, 10, .	7.3	1
7	Engineering of patch antenna resonator losses through a metamaterial approach for unipolar quantum detectors. , 2022, , .		0
8	High speed mid-infrared Stark modulator for optical data transmission up to 10 Gbit.s-1. , 2022, , .		0
9	Bias Tunable Spectral Response of Nanocrystal Array in a Plasmonic Cavity. Nano Letters, 2021, 21, 6671-6677.	9.1	15
10	Optomechanical temporal sampling of terahertz signals. Applied Physics Letters, 2021, 119, 181103.	3.3	3
11	Mixing Properties of Room Temperature Patchâ€Antenna Receivers in a Midâ€Infrared (Î»Âà‰ˆÂ9ÂÂµm) Heterodyne System. Laser and Photonics Reviews, 2020, 14, 1900207.	8.7	12
12	Semiconductor Quantum Plasmonics. Physical Review Letters, 2020, 125, 187401.	7.8	9
13	Absorption Engineering in an Ultrasubwavelength Quantum System. Nano Letters, 2020, 20, 4430-4436.	9.1	21
14	Quantum Cascade Lasers: Tunability of the Freeâ€Spectral Range by Microwave Injection into a Midâ€Infrared Quantum Cascade Laser (Laser Photonics Rev. 14(5)/2020). Laser and Photonics Reviews, 2020, 14, 2070030.	8.7	0
15	Quantum Theory of Multisubband Plasmonâ€“ Phonon Coupling. Photonics, 2020, 7, 19.	2.0	5
16	Long-wavelength infrared photovoltaic heterodyne receivers using patch-antenna quantum cascade detectors. Applied Physics Letters, 2020, 116, .	3.3	33
17	Tunability of the Freeâ€Spectral Range by Microwave Injection into a Midâ€Infrared Quantum Cascade Laser. Laser and Photonics Reviews, 2020, 14, 1900389.	8.7	7
18	High temperature metamaterial terahertz quantum detector. Applied Physics Letters, 2020, 117, .	3.3	23

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19	Quasi-static and propagating modes in three-dimensional THz circuits. Optics Express, 2020, 28, 16982.	3.4	0
20	Semiconductor quantum plasmons for high frequency thermal emission. Nanophotonics, 2020, 10, 607-615.	6.0	1
21	Ultrastrong Lightâ€“Matter Coupling in Deeply Subwavelength THz LC Resonators. ACS Photonics, 2019, 6, 1207-1215.	6.6	37
22	Coulomb forces in THz electromechanical meta-atoms. Nanophotonics, 2019, 8, 2269-2277.	6.0	13
23	Ultra-Small Mode Volume Three-Dimensional THz LC Metamaterial. , 2019, , .		0
24	Near- and mid-infrared intersubband absorption in top-down GaN/AlN nano- and micro-pillars. Nanotechnology, 2019, 30, 054002.	2.6	5
25	Room-temperature nine-Âµm-wavelength photodetectors and GHz-frequency heterodyne receivers. Nature, 2018, 556, 85-88.	27.8	197
26	Intersubband plasmons induced negative refraction at mid-IR frequency in heterostructured semiconductor metamaterials. Journal of Physics: Conference Series, 2018, 1092, 012034.	0.4	0
27	Room-Temperature, Wide-Band, Quantum Well Infrared Photodetector for Microwave Optical Links at 4.9 Î¼m Wavelength. ACS Photonics, 2018, 5, 3689-3694.	6.6	27
28	GHz Heterodyne generation using Two DFB Mid-IR QCL lasers on a 9Î¼m QWIP. , 2018, , .		0
29	Midinfrared Ultrastrong Lightâ€“Matter Coupling for THz Thermal Emission. ACS Photonics, 2017, 4, 2550-2555.	6.6	33
30	Nanoscale electromagnetic confinement in THz circuit resonators. Optics Express, 2017, 25, 28718.	3.4	7
31	Ultra-strong lightâ€“matter coupling and superradiance using dense electron gases. Comptes Rendus Physique, 2016, 17, 861-873.	0.9	26
32	Sub-nanometrically resolved chemical mappings of quantum-cascade laser active regions. Semiconductor Science and Technology, 2016, 31, 055017.	2.0	6
33	Superradiant Emission from a Collective Excitation in a Semiconductor. Physical Review Letters, 2015, 115, 187402.	7.8	51
34	Electrical excitation of superradiant intersubband plasmons. Applied Physics Letters, 2015, 107, .	3.3	9
35	Patch antenna terahertz photodetectors. Applied Physics Letters, 2015, 106, .	3.3	61
36	Radiatively Broadened Incandescent Sources. ACS Photonics, 2015, 2, 1663-1668.	6.6	15

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37	Antenna-coupled microcavities for enhanced infrared photo-detection. Applied Physics Letters, 2014, 104, .	3.3	68
38	Strong near field enhancement in THz nano-antenna arrays. Scientific Reports, 2013, 3, 1361.	3.3	69
39	Microcavity Enhanced Quantum Well Infrared Photodetector. , 2013, , .		0
40	Extremely sub-wavelength THz metal-dielectric wire microcavities. Optics Express, 2012, 20, 29121.	3.4	36
41	Direct surface cyclotron resonance terahertz emission from a quantum cascade structure. Applied Physics Letters, 2012, 100, .	3.3	9
42	Charge-Induced Coherence between Intersubband Plasmons in a Quantum Structure. Physical Review Letters, 2012, 109, 246808.	7.8	91
43	Cyclotron emission in a THz quantum cascade structure. AIP Conference Proceedings, 2011, , .	0.4	0
44	Light-matter strong coupling in the mid-infrared region with metallic microcavities. , 2011, , .		0
45	Transition from strong to ultrastrong coupling regime in mid-infrared metal-dielectric-metal cavities. Applied Physics Letters, 2011, 98, .	3.3	38
46	Electrical injection of intersubband polaritons. , 2009, , .		0
47	Electrically Injected Cavity Polaritons. Physical Review Letters, 2008, 100, 136806.	7.8	71
48	Investigation of spectral gain narrowing in quantum cascade lasers using terahertz time domain spectroscopy. Applied Physics Letters, 2008, 93, 101115.	3.3	35
49	Influence of the material parameters on quantum cascade devices. Applied Physics Letters, 2008, 93, 131108.	3.3	41
50	Stark-tunable electroluminescence from cavity polariton states. Applied Physics Letters, 2008, 93, 171105.	3.3	11
51	Dark current analysis of quantum cascade detectors by magnetoresistance measurements. Physical Review B, 2008, 77, .	3.2	33
52	Photovoltaic probe of cavity polaritons in a quantum cascade structure. Applied Physics Letters, 2007, 90, 201101.	3.3	32
53	Electron Scattering Spectroscopy by High Magnetic Field in Mid-Infrared Quantum Cascade Lasers. AIP Conference Proceedings, 2007, , .	0.4	1
54	QUANTUM EFFICIENCY OF A 2-LEVEL InAs/AlSb QUANTUM CASCADE STRUCTURE. International Journal of Modern Physics B, 2007, 21, 1471-1475.	2.0	1

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55	Role of elastic scattering mechanisms in GaInAsâˆ•AlInAs quantum cascade lasers. Applied Physics Letters, 2006, 89, 172120.	3.3	45
56	Non perturbative exciton-phonon coupling for a single GaAs quantum dot. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 438-441.	0.8	0
57	Continuous Absorption Background and Decoherence in Quantum Dots. Physical Review Letters, 2002, 89, 216804.	7.8	150
58	Electric Field Effects in Stacked Dots. Physica Status Solidi A, 2002, 190, 551-554.	1.7	2
59	Stark effects and electro-optical properties of strongly stacked dots. Solid State Communications, 2001, 118, 459-463.	1.9	14
60	Energy levels and far-infrared absorption of multi-stacked dots. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 11, 41-50.	2.7	27
61	Electronic Structure, Stark Effect and Optical Properties of Multistacked Dots. Japanese Journal of Applied Physics, 2001, 40, 1955-1957.	1.5	5
62	Strong near field enhancement in THz nano-antenna arrays. , 0, .		1