

Angela Vasanelli

List of Publications by Year in descending order

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62
papers

1,454
citations

304602

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315616

38
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docs citations

62
times ranked

1430
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature nine- μm -wavelength photodetectors and GHz-frequency heterodyne receivers. <i>Nature</i> , 2018, 556, 85-88.	13.7	197
2	Continuous Absorption Background and Decoherence in Quantum Dots. <i>Physical Review Letters</i> , 2002, 89, 216804.	2.9	150
3	Charge-Induced Coherence between Intersubband Plasmons in a Quantum Structure. <i>Physical Review Letters</i> , 2012, 109, 246808.	2.9	91
4	Electrically Injected Cavity Polaritons. <i>Physical Review Letters</i> , 2008, 100, 136806.	2.9	71
5	Strong near field enhancement in THz nano-antenna arrays. <i>Scientific Reports</i> , 2013, 3, 1361.	1.6	69
6	Antenna-coupled microcavities for enhanced infrared photo-detection. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	68
7	Patch antenna terahertz photodetectors. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	61
8	Superradiant Emission from a Collective Excitation in a Semiconductor. <i>Physical Review Letters</i> , 2015, 115, 187402.	2.9	51
9	Role of elastic scattering mechanisms in GaInAs ^x AlInAs quantum cascade lasers. <i>Applied Physics Letters</i> , 2006, 89, 172120.	1.5	45
10	Influence of the material parameters on quantum cascade devices. <i>Applied Physics Letters</i> , 2008, 93, 131108.	1.5	41
11	Transition from strong to ultrastrong coupling regime in mid-infrared metal-dielectric-metal cavities. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	38
12	Ultrastrong Light-Matter Coupling in Deeply Subwavelength THz LC Resonators. <i>ACS Photonics</i> , 2019, 6, 1207-1215.	3.2	37
13	Extremely sub-wavelength THz metal-dielectric wire microcavities. <i>Optics Express</i> , 2012, 20, 29121.	1.7	36
14	Investigation of spectral gain narrowing in quantum cascade lasers using terahertz time domain spectroscopy. <i>Applied Physics Letters</i> , 2008, 93, 101115.	1.5	35
15	10 Gbit s ⁻¹ Free Space Data Transmission at 9 μm Wavelength With Unipolar Quantum Optoelectronics. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	35
16	Dark current analysis of quantum cascade detectors by magnetoresistance measurements. <i>Physical Review B</i> , 2008, 77, .	1.1	33
17	Midinfrared Ultrastrong Light-Matter Coupling for THz Thermal Emission. <i>ACS Photonics</i> , 2017, 4, 2550-2555.	3.2	33
18	Long-wavelength infrared photovoltaic heterodyne receivers using patch-antenna quantum cascade detectors. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	33

#	ARTICLE	IF	CITATIONS
19	Photovoltaic probe of cavity polaritons in a quantum cascade structure. Applied Physics Letters, 2007, 90, 201101.	1.5	32
20	Energy levels and far-infrared absorption of multi-stacked dots. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 11, 41-50.	1.3	27
21	Room-Temperature, Wide-Band, Quantum Well Infrared Photodetector for Microwave Optical Links at 4.9 μm Wavelength. ACS Photonics, 2018, 5, 3689-3694.	3.2	27
22	Ultra-strong light-matter coupling and superradiance using dense electron gases. Comptes Rendus Physique, 2016, 17, 861-873.	0.3	26
23	High temperature metamaterial terahertz quantum detector. Applied Physics Letters, 2020, 117, .	1.5	23
24	Absorption Engineering in an Ultrasubwavelength Quantum System. Nano Letters, 2020, 20, 4430-4436.	4.5	21
25	Radiatively Broadened Incandescent Sources. ACS Photonics, 2015, 2, 1663-1668.	3.2	15
26	Bias Tunable Spectral Response of Nanocrystal Array in a Plasmonic Cavity. Nano Letters, 2021, 21, 6671-6677.	4.5	15
27	Stark effects and electro-optical properties of strongly stacked dots. Solid State Communications, 2001, 118, 459-463.	0.9	14
28	Coulomb forces in THz electromechanical meta-atoms. Nanophotonics, 2019, 8, 2269-2277.	2.9	13
29	Mixing Properties of Room Temperature Patch-Antenna Receivers in a Mid-Infrared ($\sim 9\ \mu\text{m}$) Heterodyne System. Laser and Photonics Reviews, 2020, 14, 1900207.	4.4	12
30	Broadband Enhancement of Mid-Wave Infrared Absorption in a Multi-Resonant Nanocrystal-Based Device. Advanced Optical Materials, 2022, 10, .	3.6	12
31	Stark-tunable electroluminescence from cavity polariton states. Applied Physics Letters, 2008, 93, 171105.	1.5	11
32	Direct surface cyclotron resonance terahertz emission from a quantum cascade structure. Applied Physics Letters, 2012, 100, .	1.5	9
33	Electrical excitation of superradiant intersubband plasmons. Applied Physics Letters, 2015, 107, .	1.5	9
34	Semiconductor Quantum Plasmonics. Physical Review Letters, 2020, 125, 187401.	2.9	9
35	Nanoscale electromagnetic confinement in THz circuit resonators. Optics Express, 2017, 25, 28718.	1.7	7
36	Tunability of the Free-Spectral Range by Microwave Injection into a Mid-Infrared Quantum Cascade Laser. Laser and Photonics Reviews, 2020, 14, 1900389.	4.4	7

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37	Sub-nanometrically resolved chemical mappings of quantum-cascade laser active regions. <i>Semiconductor Science and Technology</i> , 2016, 31, 055017.	1.0	6
38	Ultrafast Detection of TeraHertz Radiation with Miniaturized Optomechanical Resonator Driven by Dielectric Driving Force. <i>ACS Photonics</i> , 2022, 9, 1541-1546.	3.2	6
39	Electronic Structure, Stark Effect and Optical Properties of Multistacked Dots. <i>Japanese Journal of Applied Physics</i> , 2001, 40, 1955-1957.	0.8	5
40	Near- and mid-infrared intersubband absorption in top-down GaN/AlN nano- and micro-pillars. <i>Nanotechnology</i> , 2019, 30, 054002.	1.3	5
41	Quantum Theory of Multisubband Plasmon-Phonon Coupling. <i>Photonics</i> , 2020, 7, 19.	0.9	5
42	Optomechanical temporal sampling of terahertz signals. <i>Applied Physics Letters</i> , 2021, 119, 181103.	1.5	3
43	Metamaterial engineering for optimized photon absorption in unipolar quantum devices. <i>Optics Express</i> , 2022, 30, 20515.	1.7	3
44	Electric Field Effects in Stacked Dots. <i>Physica Status Solidi A</i> , 2002, 190, 551-554.	1.7	2
45	Electron Scattering Spectroscopy by High Magnetic Field in Mid-Infrared Quantum Cascade Lasers. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	1
46	QUANTUM EFFICIENCY OF A 2-LEVEL InAs/AlSb QUANTUM CASCADE STRUCTURE. <i>International Journal of Modern Physics B</i> , 2007, 21, 1471-1475.	1.0	1
47	Strong near field enhancement in THz nano-antenna arrays. , 0, .		1
48	Semiconductor quantum plasmons for high frequency thermal emission. <i>Nanophotonics</i> , 2020, 10, 607-615.	2.9	1
49	10 Gbit s ⁻¹ Free Space Data Transmission at 9.4 μm Wavelength With Unipolar Quantum Optoelectronics (<i>Laser Photonics Rev.</i> 16(2)/2022). <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	1
50	Broadband Enhancement of Mid-Wave Infrared Absorption in a Multi-Resonant Nanocrystal-Based Device (<i>Advanced Optical Materials</i> 9/2022). <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	1
51	Non perturbative exciton-phonon coupling for a single GaAs quantum dot. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 438-441.	0.8	0
52	Electrical injection of intersubband polaritons. , 2009, , .		0
53	Cyclotron emission in a THz quantum cascade structure. <i>AIP Conference Proceedings</i> , 2011, , .	0.3	0
54	Light-matter strong coupling in the mid-infrared region with metallic microcavities. , 2011, , .		0

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55	Intersubband plasmons induced negative refraction at mid-IR frequency in heterostructured semiconductor metamaterials. Journal of Physics: Conference Series, 2018, 1092, 012034.	0.3	0
56	Ultra-Small Mode Volume Three-Dimensional THz LC Metamaterial. , 2019, , .		0
57	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.	4.4	0
58	Microcavity Enhanced Quantum Well Infrared Photodetector. , 2013, , .		0
59	GHz Heterodyne generation using Two DFB Mid-IR QCL lasers on a 9Î¼m QWIP. , 2018, , .		0
60	Quasi-static and propagating modes in three-dimensional THz circuits. Optics Express, 2020, 28, 16982.	1.7	0
61	Engineering of patch antenna resonator losses through a metamaterial approach for unipolar quantum detectors. , 2022, , .		0
62	High speed mid-infrared Stark modulator for optical data transmission up to 10 Gbit.s-1. , 2022, , .		0