

Carlo Vicario

List of Publications by Year in descending order

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47
papers

2,771
citations

257450

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233421

45
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all docs

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docs citations

48
times ranked

2804
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-color x-ray free-electron laser by photocathode laser emittance spoiler. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	7
2	Experimental demonstration of two-color x-ray free-electron-laser pulses via wakefield excitation. <i>Physical Review Accelerators and Beams</i> , 2021, 24, .	1.6	3
3	Narrow-band and tunable intense terahertz pulses for mode-selective coherent phonon excitation. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	19
4	A compact and cost-effective hard X-ray free-electron laser driven by a high-brightness and low-energy electron beam. <i>Nature Photonics</i> , 2020, 14, 748-754.	31.4	140
5	Impact of laser stacking and photocathode materials on microbunching stability in photoinjectors. <i>Physical Review Accelerators and Beams</i> , 2020, 23, .	1.6	3
6	Leggett mode controlled by light pulses. <i>Nature Physics</i> , 2019, 15, 341-346.	16.7	51
7	The SwissFEL soft X-ray free-electron laser beamline: Athos. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1073-1084.	2.4	51
8	Supercontinuum generation in OHQ-N2S organic crystal driven by intense terahertz fields. <i>Optics Letters</i> , 2019, 44, 4881.	3.3	5
9	Deformable mirror for wavefront shaping of infrared radiation. <i>Optics Letters</i> , 2018, 43, 2062.	3.3	4
10	High Efficiency and Low Distortion Photoacoustic Effect in 3D Graphene Sponge. <i>Advanced Functional Materials</i> , 2018, 28, 1702652.	14.9	35
11	Single-silicon CCD-CMOS platform for multi-spectral detection from terahertz to x-rays. <i>Optics Letters</i> , 2017, 42, 4596.	3.3	2
12	SwissFEL: The Swiss X-ray Free Electron Laser. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 720.	2.5	272
13	Low frequency terahertz-induced demagnetization in ferromagnetic nickel. <i>Applied Physics Letters</i> , 2016, 108, 182903.	3.3	39
14	Generation of frequency-tunable pulsed terahertz radiation by a Cr:forsterite laser system with an acoustooptical control of the pulse temporal profile. <i>Quantum Electronics</i> , 2016, 46, 1149-1153.	1.0	20
15	Intense THz source based on BNA organic crystal pumped at Ti:sapphire wavelength. <i>Optics Letters</i> , 2016, 41, 1777.	3.3	54
16	Commissioning experience and beam physics measurements at the SwissFEL Injector Test Facility. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	1.6	41
17	High-power femtosecond Raman frequency shifter. <i>Optics Letters</i> , 2016, 41, 4719.	3.3	27
18	Generation of 1.5-octave intense infrared pulses by nonlinear interactions in DAST crystal. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 094005.	2.2	16

#	ARTICLE	IF	CITATIONS
19	High field broadband THz generation in organic materials. Journal of Modern Optics, 2015, 62, 1480-1485.	1.3	34
20	High efficiency THz generation in DSTMS, DAST and OH1 pumped by Cr:forsterite laser. Optics Express, 2015, 23, 4573.	3.4	199
21	Intrinsic emittance reduction of copper cathodes by laser wavelength tuning in an rf photoinjector. Physical Review Special Topics: Accelerators and Beams, 2015, 18, .	1.8	23
22	Intense sub-two-cycle infrared pulse generation via phase-mismatched cascaded nonlinear interaction in DAST crystal. Optics Letters, 2014, 39, 2660.	3.3	5
23	GV Single-Cycle Terahertz Fields from a Laser-Driven Large-Size Partitioned Organic Crystal. Physical Review Letters, 2014, 112, .	7.8	244
24	Generation of 09-mJ THz pulses in DSTMS pumped by a Cr:Mg ₂ SiO ₄ laser. Optics Letters, 2014, 39, 6632.	3.3	272
25	Large-Amplitude Spin Dynamics Driven by a THz Pulse in Resonance with an Electromagnon. Science, 2014, 343, 1333-1336.	12.6	255
26	Timing jitter studies of the SwissFEL Test Injector drive laser. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 735, 471-479.	1.6	12
27	Off-resonant magnetization dynamics phase-locked to an intense phase-stable terahertz transient. Nature Photonics, 2013, 7, 720-723.	31.4	169
28	Spatiotemporal Focusing Dynamics of Intense Supercontinuum THz Pulses. Physical Review Letters, 2013, 110, 123902.	7.8	82
29	High-energy terahertz pulses from organic crystals: DAST and DSTMS pumped at Ti:sapphire wavelength. Optics Letters, 2013, 38, 5106.	3.3	55
30	Pump pulse width and temperature effects in lithium niobate for efficient THz generation. Optics Letters, 2013, 38, 5373.	3.3	41
31	Deep-ultraviolet picosecond flat-top pulses by chirp-matched sum frequency generation. Optics Letters, 2012, 37, 1619.	3.3	7
32	Scaling submillimeter single-cycle transients toward megavolts per centimeter field strength via optical rectification in the organic crystal OH1. Optics Letters, 2012, 37, 899.	3.3	83
33	Ultrabroadband TW-class Ti:sapphire laser system with adjustable central wavelength, bandwidth and multi-color operation. Optics Express, 2011, 19, 20128.	3.4	40
34	Towards High-power Single-cycle THz Laser for Initiating High-field-sensitive Phenomena. Chimia, 2011, 65, 320.	0.6	2
35	Can Energetic Terahertz Pulses Initiate Surface Catalytic Reactions on the Picosecond Time Scale?. Chimia, 2011, 65, 323.	0.6	14
36	Strong-field single-cycle THz pulses generated in an organic crystal. Applied Physics Letters, 2011, 99, .	3.3	183

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37	High-Gain Harmonic-Generation Free-Electron Laser Seeded by Harmonics Generated in Gas. Physical Review Letters, 2011, 107, 224801.	7.8	76
38	Self-Amplified Spontaneous Emission Free-Electron Laser with an Energy-Chirped Electron Beam and Undulator Tapering. Physical Review Letters, 2011, 106, 144801.	7.8	66
39	OBSERVATION OF COHERENT EDGE RADIATION EMITTED BY A 100 FEMTOSECOND COMPRESSED ELECTRON BEAM. International Journal of Modern Physics A, 2007, 22, 4101-4114.	1.5	5
40	Direct Measurement of the Double Emittance Minimum in the Beam Dynamics of the Sparc High-Brightness Photoinjector. Physical Review Letters, 2007, 99, 234801.	7.8	59
41	Simple scheme for ultraviolet time-pulse shaping. Applied Optics, 2007, 46, 4959.	2.1	10
42	High-power third-harmonic flat pulse laser generation. Optics Letters, 2006, 31, 2885.	3.3	19
43	Pulsed laser deposition of Mg thin films on Cu substrates for photocathode applications. Applied Surface Science, 2005, 248, 397-401.	6.1	13
44	The SPARC/X SASE-FEL Projects. Laser and Particle Beams, 2004, 22, 341-350.	1.0	8
45	Photoemission from diamond films illuminated by intense Nd:YAG laser harmonics. Applied Physics A: Materials Science and Processing, 2003, 77, 805-809.	2.3	0
46	Structural features of diamond layers photo-emitting at sub-band gap energies. Diamond and Related Materials, 2003, 12, 2186-2194.	3.9	3
47	Overview of SwissFEL dual-photocathode laser capabilities and perspectives for exotic FEL modes. High Power Laser Science and Engineering, 0, , 1-51.	4.6	3