Steven Jamison

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1059463/publications.pdf

Version: 2024-02-01

41 papers	1,787 citations	394421 19 h-index	414414 32 g-index
42 all docs	42 docs citations	42 times ranked	1688 citing authors

#	Article	IF	Citations
1	Terahertz waveguides. Journal of the Optical Society of America B: Optical Physics, 2000, 17, 851.	2.1	428
2	Single-mode waveguide propagation and reshaping of sub-ps terahertz pulses in sapphire fibers. Applied Physics Letters, 2000, 76, 1987-1989.	3.3	196
3	Generation of Quasimonoenergetic Electron Bunches with 80-fs Laser Pulses. Physical Review Letters, 2006, 96, 105004.	7.8	118
4	Electro-Optic Technique with Improved Time Resolution for Real-Time, Nondestructive, Single-Shot Measurements of Femtosecond Electron Bunch Profiles. Physical Review Letters, 2004, 93, 114802.	7.8	113
5	Plasma characterization with terahertz timeâ€“domain measurements. Journal of Applied Physics, 2003, 93, 4334-4336.	2.5	107
6	Radiation sources based on laserâ€“plasma interactions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 689-710.	3.4	101
7	Benchmarking of Electro-Optic Monitors for Femtosecond Electron Bunches. Physical Review Letters, 2007, 99, 164801.	7.8	84
8	High-temporal-resolution, single-shot characterization of terahertz pulses. Optics Letters, 2003, 28, 1710.	3.3	75
9	Acceleration of relativistic beams using laser-generated terahertz pulses. Nature Photonics, 2020, 14, 755-759.	31.4	68
10	Electron Bunch Length Measurements from Laser-Accelerated Electrons Using Single-Shot THz Time-Domain Interferometry. Physical Review Letters, 2010, 104, 084802.	7.8	66
11	Electro-optic time profile monitors for femtosecond electron bunches at the soft x-ray free-electron laser FLASH. Physical Review Special Topics: Accelerators and Beams, 2009, 12, .	1.8	64
12	Magnetic-field tailoring of the terahertz polarization emitted from a spintronic source. Applied Physics Letters, 2019, 114, .	3.3	56
13	Acceleration in the linear non-scaling fixed-field alternating-gradient accelerator EMMA. Nature Physics, 2012, 8, 243-247.	16.7	51
14	Ultra hard x rays from krypton clusters heated by intense laser fields. Physics of Plasmas, 2004, 11, 3491-3496.	1.9	42
15	Temporally resolved electro-optic effect. Optics Letters, 2006, 31, 1753.	3.3	36
16	Demonstration of sub-luminal propagation of single-cycle terahertz pulses for particle acceleration. Nature Communications, 2017, 8, 421.	12.8	29
17	CLARA conceptual design report. Journal of Instrumentation, 2014, 9, T05001-T05001.	1.2	23
18	X-ray FEL shines brightly. Nature Photonics, 2010, 4, 589-591.	31.4	22

#	Article	IF	Citations
19	Generation of longitudinally polarized terahertz pulses with field amplitudes exceeding 2â€‰kV/cm. Applied Physics Letters, 2014, 105, 191112.	3.3	22
20	Upconversion of a relativistic Coulomb field terahertz pulse to the near infrared. Applied Physics Letters, 2010, 96, 231114.	3.3	15
21	Longitudinally polarized single-cycle terahertz pulses generated with high electric field strengths. Applied Physics Letters, 2016, 108, 221102.	3.3	15
22	First results from the Daresbury Compton backscattering x-ray source (COBALD). Proceedings of SPIE, 2010, , .	0.8	8
23	The time resolved measurement of ultrashort terahertz-band electric fields without an ultrashort probe. Applied Physics Letters, 2015, 106, .	3.3	7
24	Collective Rayleigh scattering from dielectric particles. Measurement Science and Technology, 2002, 13, 263-269.	2.6	6
25	Role of misalignment-induced angular chirp in the electro-optic detection of THz waves. Optics Express, 2014, 22, 12028.	3.4	6
26	Revealing carrier-envelope phase through frequency mixing and interference in frequency resolved optical gating. Optics Express, 2015, 23, 8507.	3.4	6
27	Optical depolarization in CaF2:RE3+ and SrF2:RE3+C4v centers due to dipole reorientation. Journal of Luminescence, 1995, 66-67, 169-173.	3.1	5
28	Spontaneous density grating formation in suspensions of dielectric nanoparticles. Journal of Modern Optics, 2002, 49, 997-1006.	1.3	5
29	Dispersion in dielectric-lined waveguides designed for terahertz-driven deflection of electron beams. Applied Physics Letters, 2021, 118, .	3.3	5
30	Reply to comment on "Temporally resolved electro-optic effect". Optics Letters, 2007, 32, 1343.	3.3	4
31	Inverse Compton backscattering source driven by the multi 10-TW laser installed at Daresbury. Proceedings of SPIE, 2007, 6702, 104.	0.8	2
32	Six-dimensional phase space preservation in a terahertz-driven multistage dielectric-lined rectangular waveguide accelerator. Physical Review Accelerators and Beams, 2021, 24, .	1.6	2
33	Electron-beam bunch length monitor based on electro-optic detection technique. , 2005, 5646, 269.		0
34	Determining carrier multiplication efficiencies: Time-resolved terahertz spectroscopy on colloidal quantum dot solutions. , 2013, , .		0
35	Developing terahertz sources with longitudinal polarisation components for the energy modulation of relativistic electrons. , 2013, , .		0
36	Single-shot, femtosecond resolution, terahertz pulse measurement without a femtosecond probe via electro-optic transposition. , 2016, , .		0

#	Article	IF	Citations
37	Developing terahertz sources for relativistic particle acceleration. , 2016, , .		0
38	Tilted Pulse-Front Phase-matching in Three Dimensions: Overcoming The Cherenkov Angle Restrictions. , 2018, , .		0
39	Spatial and Temporal Field Evolution of Evanescent Single-Cycle THz Pulses. , 2019, , .		0
40	Terahertz-driven acceleration of a relativistic 35 MeV electron beam. , 2019, , .		0
41	Design of Planar Millimeter-Wave Metallic Structures for Wakefield Acceleration. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 48-62.	2.2	0