Jesus GarduÃ±o-MejÃ-a

List of Publications by Year
in descending order

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57	244	1040056 9	1125743 13
papers	citations	h-index	g-index

58	58	58	177
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interference effects in quantum-optical coherence tomography using spectrally engineered photon pairs. Scientific Reports, 2019, 9, 8954.	3.3	26
2	Effects of primary spherical aberration, coma, astigmatism, and field curvature on the focusing of ultrashort pulses: Gaussian illumination and experiment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1990.	1.5	17
3	Programmable spectral phase control of femtosecond pulses by use of adaptive optics and real-time pulse measurement. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 833.	2.1	15
4	Experimental method to characterize the retardance function of optical variable retarders. American Journal of Physics, 2015, 83, 143-149.	0.7	15
5	Aberration effects on femtosecond pulses generated by nonideal achromatic doublets. Applied Optics, 2009, 48, 4723.	2.1	14
6	Gauss-Legendre quadrature method used to evaluate the spatio-temporal intensity of ultrashort pulses in the focal region of lenses. Applied Optics, 2012, 51, 306.	1.8	14
7	Modelling the influence of nonthermal electron dynamics in thin and ultrathin gold films. Chemical Physics, 2007, 341, 276-284.	1.9	12
8	Effects of primary spherical aberration, coma, astigmatism and field curvature on the focusing of ultrashort pulses: homogenous illumination. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1979.	1.5	12
9	Autocorrelation z-scan technique for measuring the spatial and temporal distribution of femtosecond pulses in the focal region of lenses. Optics Express, 2017, 25, 14473.	3.4	11
10	Temporal spreading generated by diffraction in the focusing of ultrashort light pulses with perfectly conducting spherical mirrors. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1620.	1.5	8
11	Low-energy/pulse response and high-resolution-CMOS camera for spatiotemporal femtosecond laser pulses characterization @ 1.55 Î¼m. Review of Scientific Instruments, 2019, 90, 045116.	1.3	8
12	Morphology dependent ultrafast electron dynamics in ultrathin gold films. Surface Science, 2008, 602, 3125-3130.	1.9	7
13	Third-order dispersion effects generated by non-ideal achromatic doublets on sub-20 femtosecond pulses. Journal of Modern Optics, 2011, 58, 825-834.	1.3	7
14	Spatial chirp in the focusing of few-optical-cycle pulses by a mirror. Journal of Modern Optics, 2013, 60, 1037-1044.	1.3	6
15	Sub-wavelength continuous THz imaging system based on interferometric detection. Optics Express, 2021, 29, 19120.	3.4	6
16	Experimental observation of predictions of the generalized van Cittertâ€“Zernike theorem for quasi-homogeneous planar electromagnetic sources. Journal of Optics (United Kingdom), 2019, 21, 075601.	2.2	5
17	Stability analysis of a non-symmetric femtosecond-cavity-dumped solid-state oscillator. Optics Communications, 2006, 259, 840-847.	2.1	4
18	Analytical method for calculating the electric field envelope of ultrashort pulses by approximating the wavenumber up to third order. Applied Optics, 2010, 49, 2463.	2.1	4

#	Article	IF	Citations
19	Temporal widening of a short polarized pulse focused with a high numerical aperture aplanatic lens. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 696.	1.5	4
20	Time-domain measurements reveal spatial aberrations in a sub-surface two-photon microscope. Applied Optics, 2017, 56, 5047.	2.1	4
21	Mode-coupling enhancement by pump astigmatism correction in a Ti:Sapphire femtosecond laser. Applied Optics, 2016, 55, 9889.	2.1	4
22	Comparison of methods for the calculation of focused ultra-short pulses. Applied Optics, 2017, 56, 1417.	2.1	4
23	Direct inversion methods for spectral amplitude modulation of femtosecond pulses. Review of Scientific Instruments, 2014, 85, 043105.	1.3	3
24	Z-scan confocal method for indirect focus location. AIP Advances, 2017, 7, 105014.	1.3	3
25	Comparison of spatially and temporally resolved diffuse transillumination measurement systems for extraction of optical properties of scattering media. Applied Optics, 2017, 56, 9199.	1.8	3
26	Impact of frequency-dependent spherical aberration in the focusing of ultrashort pulses. Applied Optics, 2020, 59, 7247.	1.8	3
27	Third-order dispersion in a pair of prisms. Journal of Modern Optics, 2009, 56, 1659-1669.	1.3	2
28	Spatial resolution in time domain imaging for different phantom widths using the cumulant expansion solution to the transport equation. Proceedings of SPIE, 2013, , .	0.8	2
29	Webcam autofocus mechanism used as a delay line for the characterization of femtosecond pulses. Review of Scientific Instruments, 2015, 86, 085114.	1.3	2
30	Aberration analysis based on pinhole-z-scan method near the focal point of refractive systems. Proceedings of SPIE, 2016, , .	0.8	2
31	Time of flight dependent linearity in diffuse imaging: how effective is it to evaluate the spatial resolution by measuring the edge response function?. Applied Optics, 2016, 55, 1613.	2.1	2
32	Efficiency signal conversion parameter to evaluate astigmatic femtosecond-optical parametric oscillator cavities. Review of Scientific Instruments, 2019, 90, 015104.	1.3	2
33	Interferometric detection for terahertz microscopy. , 2019, , .		2
34	Algorithm to filter the noise in the spectral intensity of ultrashort laser pulses. Applied Optics, 2020, 59, 7233.	1.8	2
35	Compression of ultrashort pulses by using refractive elements. , 2008, , .		1
36	Focus and Alignment Tolerance in a Photoconductive Terahertz Source. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 830-837.	2.2	1

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37	Mode coupling enhancement by astigmatism compensation in a femtosecond laser cavity. Proceedings of SPIE, 2016, , .	0.8	1
38	A high resolution hand-held focused beam profiler. Proceedings of SPIE, 2017, , .	0.8	1
39	Rapid scanning optical delay line based on a diffraction grating pair for a low-coherence reflectometer. Applied Optics, 2018, 57, 4542.	1.8	1
40	Deep photothermal effect induced by stereotactic laser beams in highly scattering media. Optics Letters, 2021, 46, 4248.	3.3	1
41	Merging Mie solutions and the radiative transport equation to measure optical properties of scattering particles in optical phantoms. Applied Optics, 2020, 59, 10591.	1.8	1
42	Nonlinear spectral Interferometry for NIR sources. , 2022, , .		1
43	Effect of oils on the transmission properties of a terahertz photonic crystal. Applied Optics, 2022, 61, 135.	1.8	1
44	Ultrafast Dynamics in Ultrathin Gold Films. , 2007, , .		0
45	Third order dispersion effects generated by achromatic doublets on sub-20 femtosecond optical pulses. Proceedings of SPIE, 2010, , .	0.8	0
46	Fabrication of a deformable mirror for pulse shaping. , 2011, , .		0
47	Gauss-Legendre quadrature method used to evaluate the electric field envelope of ultrashort pulses in the focal region of lenses. , 2011, , .		0
48	Spectral-phase-influence-matrix to shape femtosecond pulses. Proceedings of SPIE, 2011, , .	0.8	0
49	Effects of primary spherical aberration, coma, astigmatism, and field curvature on the focusing of ultrashort pulses. , 2011, , .		0
50	Third order effects generated by refractive lenses on sub 20 femtosecond optical pulses. Journal of Physics: Conference Series, 2011, 274, 012126.	0.4	0
51	Comparison of different Kerr-lens mode locking laser design techniques. Proceedings of SPIE, 2016, , .	0.8	0
52	Shack-Hartmann wavefront sensor using a Raspberry Pi embedded system. , 2017, , .		0
53	Time-Domain Measurements Reveal Spatial Aberrations in a Sub-Surface Two-Photon Microscope. , 2017, , .		0
54	Spatial-temporal distribution of femtosecond pulses at the focal region of a mirror with aberrations. , 2017, , .		0

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55	Design and construction of a broadband spectrum femtosecond laser. , 2018, , .		0
56	Wavelet-based method for spectral interferometry filtering. Applied Optics, 2020, 59, 10130.	1.8	0
57	Spatial-Temporal Distribution of Femtosecond Pulses at the Focal Region of a Mirror With Aberrations. , 2017, , .		0