Santiago Camacho-Lopez

List of Publications by Year
in descending order

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65	696	566801	610482
papers	citations	15 h-index	24 g-index

66	66	66	764
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Colloidal MnOX NPs/Carbon sheets nanocomposite synthesis by laser ablation in liquids. Optics and Laser Technology, 2022, 146, 107591.	2.2	2
2	Mitigation of cavitation erosion using laser-induced periodic surface structures. Surfaces and Interfaces, 2022, 29, 101692.	1.5	6
3	Experimental and computational model approach to assess the photothermal effects in transparent nanocrystalline yttria stabilized zirconia cranial implant. Computer Methods and Programs in Biomedicine, 2022, 221, 106896.	2.6	0
4	Tribological performance of porous silicon hydrophobic and hydrophilic surfaces. Journal of Materials Research and Technology, 2022, 19, 3942-3953.	2.6	4
5	Application of atomic force microscopy to assess erythrocytes morphology in early stages of diabetes. A pilot study. Micron, 2021, 141, 102982.	1.1	4
6	Bubble dynamics of laser-induced cavitation in plasmonic gold nanorod solutions and the relative effect of surface tension and viscosity. Optics and Laser Technology, 2021, 134, 106621.	2.2	13
7	Carbon quantum dots by submerged arc discharge in water: Synthesis, characterization, and mechanism of formation. Journal of Applied Physics, 2021, 129, .	1.1	62
8	Multi-phase titanium oxide LIPSS formation under fs laser irradiation on titanium thin films in ambient air. Optical Materials Express, 2021, 11, 2892.	1.6	6
9	Thermally Resilient Planar Waveguides in Novel nc-YSZ Transparent Ceramic by fs Laser Pulses. Frontiers in Physics, 2021, 9, .	1.0	0
10	Synthesis of molybdenum oxide nanoparticles by nanosecond laser ablation. Materials Chemistry and Physics, 2020, 240, 122163.	2.0	16
11	Hypercholesterolemia associated with erythrocytes morphology assessed by scanning electron microscopy in metabolically unhealthy individuals with normal-weight and obesity. Obesity Medicine, 2020, 20, 100292.	0.5	5
12	Fast Growth of Multi-Phase MoOx Synthesized by Laser Direct Writing Using Femtosecond Pulses. Crystals, 2020, 10, 629.	1.0	9
13	Photocatalytic urchin-like and needle-like ZnO nanostructures synthetized by thermal oxidation. Materials Chemistry and Physics, 2020, 244, 122703.	2.0	11
14	Intraocular Pressure Study in Ex Vivo Pig Eyes by the Laser-Induced Cavitation Technique: Toward a Non-Contact Intraocular Pressure Sensor. Applied Sciences (Switzerland), 2020, 10, 2281.	1.3	2
15	Soft material perforation via double-bubble laser-induced cavitation microjets. Physics of Fluids, 2020, 32, .	1.6	38
16	Femtosecond laser-induced periodic surface structures formation on bismuth thin films upon irradiation in ambient air. Optical Materials Express, 2020, 10, 674.	1.6	10
17	Circular Depressed Cladding Waveguides in Mechanically Robust, Biocompatible nc-YSZ Transparent Ceramics by fs Laser Pulses. Journal of Lightwave Technology, 2019, 37, 3119-3126.	2.7	3
18	Application of factorial experimental design on the optical absorption from glucoseâ€“insulin samples in mid-infrared spectroscopy. Results in Physics, 2019, 13, 102170.	2.0	1

#	Article	IF	Citations
19	Planar laser induced fluorescence for temperature measurement of optical thermocavitation. Experimental Thermal and Fluid Science, 2019, 103, 385-393.	1.5	19
20	Molybdenum nanoparticles generation by pulsed laser ablation and effects of oxidation due to aging. Journal of Alloys and Compounds, 2019, 788, 666-671.	2.8	13
21	ZnO synthesized in air by fs laser irradiation on metallic Zn thin films. Applied Surface Science, 2018, 439, 681-688.	3.1	7
22	Second-harmonic generation of ZnO nanoparticles synthesized by laser ablation of solids in liquids. Optics and Laser Technology, 2018, 99, 118-123.	2.2	12
23	Laser Fluence Dependence of the Electrical Properties of MoO₂ Formed by High Repetition Femtosecond Laser Pulses. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800226.	0.8	5
24	Influence of oxygen pressure on the fs laser-induced oxidation of molybdenum thin films. Optical Materials Express, 2018, 8, 581.	1.6	15
25	Study on mid-IR spectroscopy on whole blood samples for human glucose quantification applications. , 2018, , .		1
26	Depressed-Cladding 3-D Waveguide Arrays Fabricated With Femtosecond Laser Pulses. Journal of Lightwave Technology, 2017, 35, 2520-2525.	2.7	11
27	Formation of Î²-Bi2O3 and Î´-Bi2O3 during laser irradiation of Bi films studied in-situ by spatially resolved Raman spectroscopy. Journal of Alloys and Compounds, 2017, 723, 520-526.	2.8	65
28	Laser-induced periodic surface structures on bismuth thin films with ns laser pulses below ablation threshold. Optical Materials Express, 2017, 7, 1777.	1.6	27
29	Direct fs-laser bacterial inactivation for a biomedical platform. Proceedings of SPIE, 2017, , .	0.8	0
30	Stress-induced waveguides in Nd:YAG by simultaneous double-beam irradiation with femtosecond pulses. Optical Materials, 2016, 51, 84-88.	1.7	3
31	Study of the integrated fluence threshold condition for the formation of Î²-Bi2O3 on Bi thin films by using ns laser pulses. Optics and Laser Technology, 2016, 81, 50-54.	2.2	10
32	Influence of the per pulse laser fluence on the optical properties of carbon nanoparticles synthesized by laser ablation of solids in liquids. Optics and Laser Technology, 2015, 74, 48-52.	2.2	39
33	Reconstruction of laser-induced cavitation bubble dynamics based on a Fresnel propagation approach. Applied Optics, 2015, 54, 10432.	2.1	3
34	Optically induced metallic oxides by using femtosecond laser pulses at high repetition rates. , 2014, , .		0
35	Laser-induced cavitation bubble reconstruction based on the Fresnel optical propagation. , 2014, , .		0
36	HIGH RESOLUTION OPTICAL EXPERIMENTAL TECHNIQUE FOR COMPUTING PULSED LASER-INDUCED CAVITATION BUBBLE DYNAMICS IN A SINGLE SHOT. Atomization and Sprays, 2013, 23, 475-485.	0.3	7

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37	Waveguide-like structures written in transparent polycrystalline ceramics with an ultra-low fluence femtosecond laser. Optical Materials Express, 2012, 2, 1416.	1.6	13
38	Laser-induced cavitation phenomenon studied using three different optically-based approaches â€“ An initial overview of results. Photonics & Lasers in Medicine, 2012, 1, .	0.3	10
39	Laser-induced molybdenum oxide formation by low energy (nJ)â€“high repetition rate (MHz) femtosecond pulses. Optical Materials, 2011, 33, 1648-1653.	1.7	27
40	Time-resolved study of the mechanical response of tissue phantoms to nanosecond laser pulses. Journal of Biomedical Optics, 2011, 16, 115001.	1.4	12
41	Experimental study of mechanical response of artificial tissue models irradiated with Nd:YAG nanosecond laser pulses. Proceedings of SPIE, 2011, , .	0.8	2
42	Optical waveguide writing in photochromic material: photoinduced optical properties by femtosecond laser pulses. , 2011, , .		0
43	Mechanical response of agar gel irradiated with Nd:YAG nanosecond laser pulses. Proceedings of SPIE, 2010, , .	0.8	1
44	Pump-probe imaging of nanosecond laser-induced bubbles in distilled water solutions: Observations of laser-produced-plasma. Journal of Applied Physics, 2010, 108, 103106.	1.1	10
45	Plasma Membrane Integrity and Survival of Melanoma Cells After Nanosecond Laser Pulses. Annals of Biomedical Engineering, 2010, 38, 3521-3531.	1.3	2
46	Cell damage extent due to irradiation with nanosecond laser pulses under cell culturing medium and dry environment. Proceedings of SPIE, 2009, , .	0.8	0
47	Polarization-dependent single-beam laser-induced grating-like effects on titanium films. Applied Surface Science, 2008, 255, 3028-3032.	3.1	27
48	Pump-probe imaging of nanosecond laser-induced bubbles in agar gel. Optics Express, 2008, 16, 7481.	1.7	40
49	The effects of degraded spatial coherence on ultrafast-laser channel etching. Optics Express, 2008, 16, 13606.	1.7	3
50	Ultrabroadband photon pair preparation by spontaneous four-wave mixing in a dispersion-engineered optical fiber. Physical Review A, 2008, 78, .	1.0	18
51	Irradiation of biological tissue using pulsed lasers: results and applications in medical areas. , 2007, 6422, 17.		2
52	Generation of photon pairs with engineered spectral properties by spontaneous four-wave mixing. , 2007, , .		0
53	Generation of photon pairs with engineered spectral properties by spontaneous four-wave mixing. , 2007, , .		0
54	Short and ultrashort laser pulse induced bubbles on transparent and scattering tissue models. , 2007, , .		5

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55	Pulsed Laser-Induced Effects in the Material Properties of Tungsten Thin Films. Journal of Physics: Conference Series, 2007, 59, 436-439.	0.3	0
56	<title>Laser-induced phase changes of metallic Ti and W thin films</title>. , 2004, , .		0
57	Self-starting Nd:YAG holographic laser oscillator with a thermal grating. Optics Letters, 1999, 24, 753.	1.7	18
58	Experimental study of the propagation of an apertured high-intensity laser beam in Kerr-active CS₂. Journal of Modern Optics, 1997, 44, 1671-1681.	0.6	1
59	Intensity-induced birefringence in Cr4+: YAG. Journal of Modern Optics, 1997, 44, 209-219.	0.6	21
60	Experimental investigation of vector phase conjugation in Nd^3+:YAG. Optics Letters, 1996, 21, 1214.	1.7	9
61	Wave-Mixing and Vector Phase Conjugation by Polarization-Dependent Saturable Absorption inCr4+:YAG. Physical Review Letters, 1996, 76, 2894-2897.	2.9	19
62	Thickness dependence of the phase conjugate signal of amorphous selenium thin films. Optics Communications, 1995, 119, 154-158.	1.0	3
63	Phase conjugation and spatial grating formation in amorphous chalcogenide thin films. Physica A: Statistical Mechanics and Its Applications, 1994, 207, 329-333.	1.2	3
64	Laser-induced diffraction patterns in germanium diselenide amorphous films. Applied Optics, 1992, 31, 3453.	2.1	6
65	Phase conjugation in amorphous selenium thin films. Optics Letters, 1992, 17, 252.	1.7	15