

# Santiago Camacho-Lopez

## List of Publications by Year in descending order

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65  
papers

696  
citations

566801

15  
h-index

610482

24  
g-index

66  
all docs

66  
docs citations

66  
times ranked

764  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of $\hat{\Gamma}^2\text{-Bi}_2\text{O}_3$ and $\hat{\Gamma}\text{-Bi}_2\text{O}_3$ during laser irradiation of Bi films studied in-situ by spatially resolved Raman spectroscopy. <i>Journal of Alloys and Compounds</i> , 2017, 723, 520-526.	2.8	65
2	Carbon quantum dots by submerged arc discharge in water: Synthesis, characterization, and mechanism of formation. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	62
3	Pump-probe imaging of nanosecond laser-induced bubbles in agar gel. <i>Optics Express</i> , 2008, 16, 7481.	1.7	40
4	Influence of the per pulse laser fluence on the optical properties of carbon nanoparticles synthesized by laser ablation of solids in liquids. <i>Optics and Laser Technology</i> , 2015, 74, 48-52.	2.2	39
5	Soft material perforation via double-bubble laser-induced cavitation microjets. <i>Physics of Fluids</i> , 2020, 32, .	1.6	38
6	Polarization-dependent single-beam laser-induced grating-like effects on titanium films. <i>Applied Surface Science</i> , 2008, 255, 3028-3032.	3.1	27
7	Laser-induced molybdenum oxide formation by low energy ( $\eta$ )â€“high repetition rate (MHz) femtosecond pulses. <i>Optical Materials</i> , 2011, 33, 1648-1653.	1.7	27
8	Laser-induced periodic surface structures on bismuth thin films with ns laser pulses below ablation threshold. <i>Optical Materials Express</i> , 2017, 7, 1777.	1.6	27
9	Intensity-induced birefringence in $\text{Cr}^{4+}$ : YAG. <i>Journal of Modern Optics</i> , 1997, 44, 209-219.	0.6	21
10	Wave-Mixing and Vector Phase Conjugation by Polarization-Dependent Saturable Absorption in $\text{Cr}^{4+}$ :YAG. <i>Physical Review Letters</i> , 1996, 76, 2894-2897.	2.9	19
11	Planar laser induced fluorescence for temperature measurement of optical thermocavitation. <i>Experimental Thermal and Fluid Science</i> , 2019, 103, 385-393.	1.5	19
12	Self-starting Nd:YAG holographic laser oscillator with a thermal grating. <i>Optics Letters</i> , 1999, 24, 753.	1.7	18
13	Ultrabroadband photon pair preparation by spontaneous four-wave mixing in a dispersion-engineered optical fiber. <i>Physical Review A</i> , 2008, 78, .	1.0	18
14	Synthesis of molybdenum oxide nanoparticles by nanosecond laser ablation. <i>Materials Chemistry and Physics</i> , 2020, 240, 122163.	2.0	16
15	Phase conjugation in amorphous selenium thin films. <i>Optics Letters</i> , 1992, 17, 252.	1.7	15
16	Influence of oxygen pressure on the fs laser-induced oxidation of molybdenum thin films. <i>Optical Materials Express</i> , 2018, 8, 581.	1.6	15
17	Waveguide-like structures written in transparent polycrystalline ceramics with an ultra-low fluence femtosecond laser. <i>Optical Materials Express</i> , 2012, 2, 1416.	1.6	13
18	Molybdenum nanoparticles generation by pulsed laser ablation and effects of oxidation due to aging. <i>Journal of Alloys and Compounds</i> , 2019, 788, 666-671.	2.8	13

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19	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
20	Time-resolved study of the mechanical response of tissue phantoms to nanosecond laser pulses. Journal of Biomedical Optics, 2011, 16, 115001.	1.4	12
21	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
22	Depressed-Cladding 3-D Waveguide Arrays Fabricated With Femtosecond Laser Pulses. Journal of Lightwave Technology, 2017, 35, 2520-2525.	2.7	11
23	Photocatalytic urchin-like and needle-like ZnO nanostructures synthesized by thermal oxidation. Materials Chemistry and Physics, 2020, 244, 122703.	2.0	11
24	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
25	Laser-induced cavitation phenomenon studied using three different optically-based approaches "An initial overview of results. Photonics & Lasers in Medicine, 2012, 1, .	0.3	10
26	Study of the integrated fluence threshold condition for the formation of $\text{Bi}_2\text{O}_3$ on Bi thin films by using ns laser pulses. Optics and Laser Technology, 2016, 81, 50-54.	2.2	10
27	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
28	Experimental investigation of vector phase conjugation in $\text{Nd}^{3+}:\text{YAG}$ . Optics Letters, 1996, 21, 1214.	1.7	9
29	Fast Growth of Multi-Phase $\text{MoO}_x$ Synthesized by Laser Direct Writing Using Femtosecond Pulses. Crystals, 2020, 10, 629.	1.0	9
30	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
31	ZnO synthesized in air by fs laser irradiation on metallic Zn thin films. Applied Surface Science, 2018, 439, 681-688.	3.1	7
32	Laser-induced diffraction patterns in germanium diselenide amorphous films. Applied Optics, 1992, 31, 3453.	2.1	6
33	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
34	Mitigation of cavitation erosion using laser-induced periodic surface structures. Surfaces and Interfaces, 2022, 29, 101692.	1.5	6
35	Short and ultrashort laser pulse induced bubbles on transparent and scattering tissue models. , 2007, , .		5
36	Laser Fluence Dependence of the Electrical Properties of $\text{MoO}_2$ Formed by High Repetition Femtosecond Laser Pulses. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800226.	0.8	5

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37	Hypercholesterolemia associated with erythrocytes morphology assessed by scanning electron microscopy in metabolically unhealthy individuals with normal-weight and obesity. <i>Obesity Medicine</i> , 2020, 20, 100292.	0.5	5
38	Application of atomic force microscopy to assess erythrocytes morphology in early stages of diabetes. A pilot study. <i>Micron</i> , 2021, 141, 102982.	1.1	4
39	Tribological performance of porous silicon hydrophobic and hydrophilic surfaces. <i>Journal of Materials Research and Technology</i> , 2022, 19, 3942-3953.	2.6	4
40	Phase conjugation and spatial grating formation in amorphous chalcogenide thin films. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 207, 329-333.	1.2	3
41	Thickness dependence of the phase conjugate signal of amorphous selenium thin films. <i>Optics Communications</i> , 1995, 119, 154-158.	1.0	3
42	The effects of degraded spatial coherence on ultrafast-laser channel etching. <i>Optics Express</i> , 2008, 16, 13606.	1.7	3
43	Reconstruction of laser-induced cavitation bubble dynamics based on a Fresnel propagation approach. <i>Applied Optics</i> , 2015, 54, 10432.	2.1	3
44	Stress-induced waveguides in Nd:YAG by simultaneous double-beam irradiation with femtosecond pulses. <i>Optical Materials</i> , 2016, 51, 84-88.	1.7	3
45	Circular Depressed Cladding Waveguides in Mechanically Robust, Biocompatible nc-YSZ Transparent Ceramics by fs Laser Pulses. <i>Journal of Lightwave Technology</i> , 2019, 37, 3119-3126.	2.7	3
46	Irradiation of biological tissue using pulsed lasers: results and applications in medical areas. , 2007, 6422, 17.		2
47	Plasma Membrane Integrity and Survival of Melanoma Cells After Nanosecond Laser Pulses. <i>Annals of Biomedical Engineering</i> , 2010, 38, 3521-3531.	1.3	2
48	Experimental study of mechanical response of artificial tissue models irradiated with Nd:YAG nanosecond laser pulses. <i>Proceedings of SPIE</i> , 2011, , .	0.8	2
49	Intraocular Pressure Study in Ex Vivo Pig Eyes by the Laser-Induced Cavitation Technique: Toward a Non-Contact Intraocular Pressure Sensor. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2281.	1.3	2
50	Colloidal MnOX NPs/Carbon sheets nanocomposite synthesis by laser ablation in liquids. <i>Optics and Laser Technology</i> , 2022, 146, 107591.	2.2	2
51	Experimental study of the propagation of an apertured high-intensity laser beam in Kerr-active CS <sub>2</sub> . <i>Journal of Modern Optics</i> , 1997, 44, 1671-1681.	0.6	1
52	Mechanical response of agar gel irradiated with Nd:YAG nanosecond laser pulses. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
53	Application of factorial experimental design on the optical absorption from glucose-insulin samples in mid-infrared spectroscopy. <i>Results in Physics</i> , 2019, 13, 102170.	2.0	1
54	Study on mid-IR spectroscopy on whole blood samples for human glucose quantification applications. , 2018, , .		1

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55	<title>Laser-induced phase changes of metallic Ti and W thin films</title>. , 2004, , .		0
56	Generation of photon pairs with engineered spectral properties by spontaneous four-wave mixing. , 2007, , .		0
57	Generation of photon pairs with engineered spectral properties by spontaneous four-wave mixing. , 2007, , .		0
58	Pulsed Laser-Induced Effects in the Material Properties of Tungsten Thin Films. Journal of Physics: Conference Series, 2007, 59, 436-439.	0.3	0
59	Cell damage extent due to irradiation with nanosecond laser pulses under cell culturing medium and dry environment. Proceedings of SPIE, 2009, , .	0.8	0
60	Optical waveguide writing in photochromic material: photoinduced optical properties by femtosecond laser pulses. , 2011, , .		0
61	Optically induced metallic oxides by using femtosecond laser pulses at high repetition rates. , 2014, , .		0
62	Thermally Resilient Planar Waveguides in Novel nc-YSZ Transparent Ceramic by fs Laser Pulses. Frontiers in Physics, 2021, 9, .	1.0	0
63	Laser-induced cavitation bubble reconstruction based on the Fresnel optical propagation. , 2014, , .		0
64	Direct fs-laser bacterial inactivation for a biomedical platform. Proceedings of SPIE, 2017, , .	0.8	0
65	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