

Ana Isabel GÃ³mez-Varela

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

161
citations

1163117

8
h-index

1199594

12
g-index

37
all docs

37
docs citations

37
times ranked

295
citing authors

#	ARTICLE	IF	CITATIONS
1	Simultaneous co-localized super-resolution fluorescence microscopy and atomic force microscopy: combined SIM and AFM platform for the life sciences. <i>Scientific Reports</i> , 2020, 10, 1122.	3.3	31
2	How did correlative atomic force microscopy and super-resolution microscopy evolve in the quest for unravelling enigmas in biology?. <i>Nanoscale</i> , 2021, 13, 2082-2099.	5.6	27
3	Microfluidic devices manufacturing with a stereolithographic printer for biological applications. <i>Materials Science and Engineering C</i> , 2021, 129, 112388.	7.3	23
4	Study of Different Sol-Gel Coatings to Enhance the Lifetime of PDMS Devices: Evaluation of Their Biocompatibility. <i>Materials</i> , 2016, 9, 728.	2.9	17
5	Focusing, collimation and beam shaping by active GRIN rod lenses: Theory and simulation. <i>Optics and Lasers in Engineering</i> , 2012, 50, 1706-1715.	3.8	15
6	Fluorescence cross-correlation spectroscopy as a valuable tool to characterize cationic liposome-DNA nanoparticle assembly. <i>Journal of Biophotonics</i> , 2021, 14, e202000200.	2.3	13
7	Synthesis and characterization of erbium-doped SiO ₂ -TiO ₂ thin films prepared by sol-gel and dip-coating techniques onto commercial glass substrates as a route for obtaining active Gradient-Index materials. <i>Thin Solid Films</i> , 2015, 583, 115-121.	1.8	12
8	Designing an ultrafast laser virtual laboratory using MATLAB GUIDE. <i>European Journal of Physics</i> , 2017, 38, 034006.	0.6	8
9	Improvement of the optical and morphological properties of microlens arrays fabricated by laser using a sol-gel coating. <i>Applied Surface Science</i> , 2015, 351, 697-703.	6.1	4
10	Spreading Optics in the primary school. <i>Journal of Physics: Conference Series</i> , 2015, 605, 012040.	0.4	3
11	Propagation in active GRIN materials: comparison between parabolic and hyperbolic secant complex refractive index profiles. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
12	Design, performance, and tolerances of an active GRIN laser beam shaper. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
13	A teaching resource using the GUIDE environment: simplified model of the eye for secondary school students. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
14	The USC-OSA Student Chapter: goals and benefits for the optics community. , 2014, , .		1
15	Graphical user interfaces for teaching and design of GRIN lenses in optical interconnections. <i>European Journal of Physics</i> , 2015, 36, 035012.	0.6	1
16	Sol-Gel Glass Coating Synthesis for Different Applications: Active Gradient-Index Materials, Microlens Arrays and Biocompatible Channels. , 0, , .		1
17	Correlative atomic force microscopy. , 0, , .		1
18	Predicting sample heating induced by cantilevers illuminated by intense light beams. <i>Results in Physics</i> , 2022, 39, 105718.	4.1	1

#	ARTICLE	IF	CITATIONS
19	Propagation of Gaussian Beams through Active GRIN Materials. Journal of Physics: Conference Series, 2011, 274, 012124.	0.4	0
20	Beam transformations by active GRIN materials. Proceedings of SPIE, 2011, , .	0.8	0
21	A tolerance analysis on design parameters of parabolic and hyperbolic secant active GRIN materials for laser beam shaping purposes. Laser Physics, 2014, 24, 115802.	1.2	0
22	MATLAB GUI (graphical user interface) for the design of GRIN components for optical systems as an educational tool. , 2014, , .		0
23	Optics activity for hospitalized children. Proceedings of SPIE, 2014, , .	0.8	0
24	Fabrication of cylindrical active GRIN media by laser-assisted radial dopant diffusion: A proof of concept. Results in Physics, 2020, 17, 103142.	4.1	0
25	Technologies for microfluidic devices fabrication: laser ablation vs stereolithography. , 2021, , .		0
26	Beam transformations by active selfoc microlenses. Optica Pura Y Aplicada, 2012, 45, 215-220.	0.1	0
27	Light-gummy interaction: absorption and transmission of light. Optica Pura Y Aplicada, 2015, 48, 145-147.	0.1	0
28	Photoelasticity in plastic material. Optica Pura Y Aplicada, 2015, 48, 163-166.	0.1	0
29	BRINGING EXPERIENTIAL LEARNING WITH HTML5 AND MATLAB GUIDE ENVIRONMENT: VIRTUAL APPLICATIONS FOR EPO, ESO AND BACCALAUREATE. EDULEARN Proceedings, 2016, , .	0.0	0
30	A VIRTUAL BENCH TO EXPLAIN GEOMETRIC OPTICS USING MATLAB GUIDE ENVIRONMENT. , 2016, , .		0
31	The USC-OSA-EPS section activities in optics. , 2017, , .		0
32	Laser based manufacturing of channels and improvement of their lifetime with sol-gel coatings. , 2017, , .		0
33	Biocompatibility analysis of thermal and UV-curable polydimethylsiloxane for semi blood vessel-like model fabrication. , 2021, , .		0
34	Internal Microchannel Manufacturing Using Stereolithographic 3D Printing. , 0, , .		0