

Ana Isabel GÃ³mez-Varela

List of Publications by Year in descending order

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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	Predicting sample heating induced by cantilevers illuminated by intense light beams. Results in Physics, 2022, 39, 105718.	4.1	1
2	How did correlative atomic force microscopy and super-resolution microscopy evolve in the quest for unravelling enigmas in biology?. Nanoscale, 2021, 13, 2082-2099.	5.6	27
3	Fluorescence cross-correlation spectroscopy as a valuable tool to characterize cationic liposome-DNA nanoparticle assembly. Journal of Biophotonics, 2021, 14, e202000200.	2.3	13
4	Technologies for microfluidic devices fabrication: laser ablation vs stereolithography. , 2021, , .		0
5	Microfluidic devices manufacturing with a stereolithographic printer for biological applications. Materials Science and Engineering C, 2021, 129, 112388.	7.3	23
6	Biocompatibility analysis of thermal and UV-curable polydimethylsiloxane for semi blood vessel-like model fabrication. , 2021, , .		0
7	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
8	Simultaneous co-localized super-resolution fluorescence microscopy and atomic force microscopy: combined SIM and AFM platform for the life sciences. Scientific Reports, 2020, 10, 1122.	3.3	31
9	Designing an ultrafast laser virtual laboratory using MATLAB GUIDE. European Journal of Physics, 2017, 38, 034006.	0.6	8
10	The USC-OSA-EPS section activities in optics. , 2017, , .		0
11	Laser based manufacturing of channels and improvement of their lifetime with sol-gel coatings. , 2017, , .		0
12	Study of Different Sol-Gel Coatings to Enhance the Lifetime of PDMS Devices: Evaluation of Their Biocompatibility. Materials, 2016, 9, 728.	2.9	17
13	BRINGING EXPERIENTIAL LEARNING WITH HTML5 AND MATLAB GUIDE ENVIRONMENT: VIRTUAL APPLICATIONS FOR EPO, ESO AND BACCALAUREATE. EDULEARN Proceedings, 2016, , .	0.0	0
14	A VIRTUAL BENCH TO EXPLAIN GEOMETRIC OPTICS USING MATLAB GUIDE ENVIRONMENT. , 2016, , .		0
15	Spreading Optics in the primary school. Journal of Physics: Conference Series, 2015, 605, 012040.	0.4	3
16	Graphical user interfaces for teaching and design of GRIN lenses in optical interconnections. European Journal of Physics, 2015, 36, 035012.	0.6	1
17	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. Thin Solid Films, 2015, 583, 115-121.	1.8	12
18	Improvement of the optical and morphological properties of microlens arrays fabricated by laser using a sol-gel coating. Applied Surface Science, 2015, 351, 697-703.	6.1	4

#	ARTICLE	IF	CITATIONS
19	Light-gummy interaction: absorption and transmission of light. <i>Optica Pura Y Aplicada</i> , 2015, 48, 145-147.	0.1	0
20	Photoelasticity in plastic material. <i>Optica Pura Y Aplicada</i> , 2015, 48, 163-166.	0.1	0
21	A tolerance analysis on design parameters of parabolic and hyperbolic secant active GRIN materials for laser beam shaping purposes. <i>Laser Physics</i> , 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	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
24	The USC-OSA Student Chapter: goals and benefits for the optics community. , 2014, , .		1
25	Optics activity for hospitalized children. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
26	Design, performance, and tolerances of an active GRIN laser beam shaper. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
27	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
28	Beam transformations by active selfoc microlenses. <i>Optica Pura Y Aplicada</i> , 2012, 45, 215-220.	0.1	0
29	Propagation of Gaussian Beams through Active GRIN Materials. <i>Journal of Physics: Conference Series</i> , 2011, 274, 012124.	0.4	0
30	Beam transformations by active GRIN materials. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
31	Propagation in active GRIN materials: comparison between parabolic and hyperbolic secant complex refractive index profiles. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
32	Sol-Gel Glass Coating Synthesis for Different Applications: Active Gradient-Index Materials, Microlens Arrays and Biocompatible Channels. , 0, , .		1
33	Correlative atomic force microscopy. , 0, , .		1
34	Internal Microchannel Manufacturing Using Stereolithographic 3D Printing. , 0, , .		0