Alejandro Crespo-Sosa

List of Publications by Year
in descending order

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46	877	471061 17	476904 29
papers	citations	h-index	g-index

46	46	46	774
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nonlinear Optical Response of Ion-Implanted <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Au</mml:mi></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Ag</mml:mi></mml:math> Nanoparticles in Sapphire: A Three-Level Model Description. Physical Review Applied, 2020, 14, .	1.5	2
2	Structural and optical properties correlated with the morphology of gold nanoparticles embedded in synthetic sapphire: A microscopy study. Journal of Microscopy and Ultrastructure, 2018, 6, 72.	0.1	2
3	Microscopy study, structural and optical properties correlated with the morphology of metallic nanoparticles embedded in synthetic sapphire. Journal of Microscopy and Ultrastructure, 2017, , .	0.1	0
4	Nonlinear optical response of platinum nanoparticles and platinum ions embedded in sapphire. Optics Express, 2016, 24, 9955.	1.7	28
5	Structured strengthening by two-wave optical ablation in silica with gold nanoparticles. Optics and Laser Technology, 2015, 75, 115-122.	2.2	10
6	On the physical contributions to the third-order nonlinear optical response in plasmonic nanocomposites. Journal of Optics (United Kingdom), 2012, 14, 125203.	1.0	22
7	Enhancement and quenching of photoluminescence from silicon quantum dots by silver nanoparticles in a totally integrated configuration. AIP Advances, 2012, 2, .	0.6	10
8	Size characterisation of noble-metal nano-crystals formed in sapphire by ion irradiation and subsequent thermal annealing. Applied Surface Science, 2012, 259, 574-581.	3.1	17
9	Linear and nonlinear optical properties of metallic nanocrystals in sapphire. Proceedings of SPIE, 2011, , .	0.8	1
10	Nonlinear optical spectroscopy of isotropic and anisotropic metallic nanocomposites. Journal of Physics: Conference Series, 2011, 274, 012074.	0.3	5
11	Enhancement of the optical Kerr effect exhibited by an integrated configuration of silicon quantum dots and silver nanoparticles. Journal of Physics: Conference Series, 2011, 274, 012145.	0.3	4
12	Femto-, pico- and nano-second refractive nonlinearities exhibited by Au nanoparticles. Proceedings of SPIE, 2011, , .	0.8	0
13	High stability of the crystalline configuration of Au nanoparticles embedded in silica under ion and electron irradiation. Journal of Nanoparticle Research, 2010, 12, 1787-1795.	0.8	22
14	Ablation and optical third-order nonlinearities in Ag nanoparticles. International Journal of Nanomedicine, 2010, 5, 925.	3.3	24
15	Elongated Gold Nanoparticles Obtained by Ion Implantation in Silica: Characterization and T-Matrix Simulations. Journal of Physical Chemistry C, 2010, 114, 746-751.	1.5	27
16	Tuning the aspect ratio of silver nanospheroids embedded in silica. Optics Letters, 2010, 35, 703.	1.7	17
17	GISAXS Size Distribution Characterization of Cu Nanoparticles Embedded in silica. , 2009, , .		1
18	Large and anisotropic third-order nonlinear optical response from anisotropy-controlled metallic nanocomposites. Optics Communications, 2009, 282, 4157-4161.	1.0	15

#	Article	IF	Citations
19	Anisotropy in the nonlinear absorption of elongated silver nanoparticles in silica, probed by femtosecond pulses. Optics Communications, 2009, 282, 1909-1912.	1.0	30
20	Anisotropic linear and nonlinear optical properties from anisotropy-controlled metallic nanocomposites. Optics Express, 2009, 17, 12849.	1.7	42
21	Determination of the size distribution of metallic nanoparticles by optical extinction spectroscopy. Applied Optics, 2009, 48, 566.	2.1	29
22	Plasma-Induced Size Reduction in Gold Nanoclusters Embedded in a Dielectric Matrix. Science of Advanced Materials, 2009, 1, 249-253.	0.1	1
23	MeV Si ion irradiation effects on the optical absorption properties of metallic nanoparticles embedded in silica. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 3138-3142.	0.6	12
24	Correlations between microstructure of plasma-modified gold nanoclusters and their optical properties. Superlattices and Microstructures, 2008, 43, 454-459.	1.4	1
25	Linear optical response of metallic nanoshells in different dielectric media. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1371.	0.9	64
26	Large optical birefringence by anisotropic silver nanocomposites. Optics Express, 2008, 16, 710.	1.7	44
27	Thermo-optic effect and optical third order nonlinearity in nc-Si embedded in a silicon-nitride film. Optics Express, 2008, 16, 18390.	1.7	24
28	Optical third-order nonlinearity by nanosecond and picosecond pulses in Cu nanoparticles in ion-implanted silica. Journal of Applied Physics, 2008, 104, .	1.1	32
29	Excimer laser absorption by metallic nano-particles embedded in silica. Journal Physics D: Applied Physics, 2007, 40, 1890-1895.	1.3	13
30	Absorptive and refractive nonlinearities by four-wave mixing for Au nanoparticles in ion-implanted silica. Optics Express, 2007, 15, 9248.	1.7	17
31	Metal and metal oxide nanoparticles produced by ion implantation in silica: A microstructural study using HRTEM. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 99-103.	0.6	3
32	Controlled anisotropic deformation of Ag nanoparticles by Si ion irradiation. Physical Review B, 2006, 74, .	1.1	118
33	Characterization of nanocluster formation in Cu-implanted silica: Influence of the annealing atmosphere and the ion fluence. Journal of Non-Crystalline Solids, 2006, 352, 349-354.	1.5	10
34	High energy ion irradiation induced surface roughening in Ag and Cu films. Applied Surface Science, 2003, 206, 178-186.	3.1	7
35	Thermal spikes in Ag/Fe and Cu/Fe ion beam mixing. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 100, 297-303.	1.7	13
36	Silicon nanocrystals and defects produced by silicon and silicon-and-gold implantation in silica. Journal of Applied Physics, 2003, 93, 10110-10113.	1.1	10

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37	Metallic nanoparticle formation in ion-implanted silica after thermal annealing in reducing or oxidizing atmospheres. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 333-336.	0.6	28
38	Relationship between the Ag depth profiles and nanoparticle formation in Ag-implanted silica. Journal of Physics Condensed Matter, 2001, 13, 10207-10219.	0.7	12
39	RBS-channeling studies on damage production by MeV ion implantation in Si(111) wafers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2001, 84, 205-210.	1.7	3
40	X-ray diffraction evidence of the single solid solution character of the mixed [TmxY1â^'x]3Al5O12 crystalline phosphor. Optical Materials, 2001, 18, 225-230.	1.7	1
41	Optical properties of Ir2+-implanted silica glass. Nuclear Instruments & Methods in Physics Research B, 2001, 175-177, 490-494.	0.6	36
42	Optical absorption and emission studies of 2 MeV Cu-implanted silica glass. Nuclear Instruments & Methods in Physics Research B, 2001, 175-177, 495-499.	0.6	22
43	Eâ€² and B2 center production in amorphous quartz by MeV Si and Au ion implantation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 78, 32-38.	1.7	11
44	Dependence of the optical properties on the ion implanted depth profiles in fused quartz after a sequential implantation with Si and Au ions. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 1058-1063.	0.6	10
45	Study of the optical properties of fused quartz after a sequential implantation with Si and Au ions. Applied Physics Letters, 1998, 73, 1574-1576.	1.5	8
46	Irradiation effects in Ag-Fe bilayers: Ion-beam mixing, recrystallization, and surface roughening. Physical Review B, 1996, 53, 14795-14805.	1.1	69