Pablo Moreno

List of Publications by Year
in descending order

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Version: 2024-02-01

58	1,275	331642	361001
papers	citations	21 h-index	35 g-index

58	58	58	1324
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of femtosecond laser induced periodic surface structures on polymer films. Physical Chemistry Chemical Physics, 2013, 15, 11287.	2.8	95
2	Femtosecond laser microstructuring of zirconia dental implants. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 96B, 91-100.	3.4	93
3	Hidden structure of the low-energy spectrum of a one-dimensional localized Frenkel exciton. Physical Review B, 1995, 51, 14587-14593.	3.2	89
4	Ultrahigh harmonic generation from diatomic molecular ions in highly excited vibrational states. Physical Review A, 1997, 55, R1593-R1596.	2.5	85
5	Total ionization rates and ion yields of atoms at nonperturbative laser intensities. Physical Review A, 2001, 64, .	2.5	76
6	Ultraviolet and infrared femtosecond laser induced periodic surface structures on thin polymer films. Applied Physics Letters, 2012, 100, .	3.3	71
7	Mirrorless optical bistability of linear molecular aggregates. Physical Review A, 1996, 53, 416-423.	2.5	69
8	Femtosecond laser ablation of carbon reinforced polymers. Applied Surface Science, 2006, 252, 4110-4119.	6.1	61
9	Silverâ€“silver oxide coreâ€“shell nanoparticles by femtosecond laser ablation: core and shell sizing by extinction spectroscopy. Journal Physics D: Applied Physics, 2009, 42, 215102.	2.8	47
10	High-Order Harmonic Generation by Electron-Proton Recombination. Europhysics Letters, 1994, 28, 629-633.	2.0	35
11	Influence of barrier suppression in high-order harmonic generation. Physical Review A, 1995, 51, 4746-4753.	2.5	33
12	Propagation of ablation channels with multiple femtosecond laser pulses in dielectrics: numerical simulations and experiments. Journal Physics D: Applied Physics, 2005, 38, 2764-2768.	2.8	33
13	Evaluation of micromorphological changes in tooth enamel after mechanical and ultrafast laser preparation of surface cavities. Lasers in Medical Science, 2013, 28, 267-273.	2.1	32
14	Comparative study of ornamental granite cleaning using femtosecond and nanosecond pulsed lasers. Applied Surface Science, 2013, 278, 226-233.	6.1	31
15	In vitro analysis of femtosecond laser as an alternative to acid etching for achieving suitable bond strength of brackets to human enamel. Lasers in Medical Science, 2014, 29, 897-905.	2.1	31
16	Interaction of femtosecond laser pulses with tempera paints. Applied Surface Science, 2008, 255, 2675-2681.	6.1	27
17	UV laser removal of varnish on tempera paints with nanosecond and femtosecond pulses. Physical Chemistry Chemical Physics, 2011, 13, 4625.	2.8	27
18	High-order harmonic generation in a partially ionized medium. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 430.	2.1	25

#	Article	IF	Citations
19	High-order harmonic generation after photodissociation. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 4163-4172.	1.5	22
20	Low-repetition rate femtosecond laser writing of optical waveguides in KTP crystals: analysis of anisotropic refractive index changes. Optics Express, 2015, 23, 15343.	3.4	22
21	Morphological alterations in dentine after mechanical treatment and ultrashort pulse laser irradiation. Lasers in Medical Science, 2012, 27, 53-58.	2.1	21
22	Multianalytical characterization of Late Roman glasses including nanosecond and femtosecond laser induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2015, 30, 1590-1599.	3.0	21
23	Analysis of the main optical mechanisms responsible for fragmentation of gold nanoparticles by femtosecond laser radiation. Journal of Applied Physics, 2010, 107, 114308.	2.5	19
24	Improved crack resistance and thermal conductivity of cubic zirconia containing graphene nanoplatelets. Journal of the European Ceramic Society, 2020, 40, 1557-1565.	5.7	18
25	Evaluation of femtosecond laser pulse irradiation of ancient parchment. Applied Surface Science, 2008, 255, 3179-3183.	6.1	17
26	Ultrafast lasers: A new frontier for optical materials processing. Optical Materials, 2012, 34, 572-578.	3.6	15
27	Influence of Er:YAG and Ti:sapphire laser irradiation on the microtensile bond strength of several adhesives to dentin. Lasers in Medical Science, 2015, 30, 483-492.	2.1	14
28	Ultrashort pulsed laser conditioning of human enamel: in vitro study of the influence of geometrical processing parameters on shear bond strength of orthodontic brackets. Lasers in Medical Science, 2015, 30, 891-900.	2.1	13
29	Evaluation of damage in front of starting notches induced by ultra-short pulsed laser ablation for the determination of fracture toughness in zirconia. Journal of the European Ceramic Society, 2017, 37, 5127-5131.	5.7	13
30	Laser induced periodic surface structures formation by nanosecond laser irradiation of poly (ethylene terephthalate) reinforced with Expanded Graphite. Applied Surface Science, 2018, 436, 1193-1199.	6.1	13
31	Femtosecond infrared intrastromal ablation and backscattering-mode adaptive-optics multiphoton microscopy in chicken corneas. Biomedical Optics Express, 2011, 2, 2950.	2.9	12
32	Laterally-resolved mechanical and tribological properties of laser-structured polymer nanocomposites. Polymer, 2019, 168, 178-184.	3.8	10
33	Optical extinction for determining the size distribution of gold nanoparticles fabricated by ultra-short pulsed laser ablation. Applied Physics A: Materials Science and Processing, 2008, 93, 967-971.	2.3	9
34	Pulsed Laser SEU Cross Section Measurement Using Coincidence Detectors. IEEE Transactions on Nuclear Science, 2009, 56, 2001-2007.	2.0	9
35	Surface ablation of RbTiOPO4 by femtosecond laser. Optical Materials, 2011, 34, 207-214.	3.6	8
36	Laser induced periodic surface structures on polymer nanocomposites with carbon nanoadditives. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	8

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37	Femtosecond laser induced micromodifications in Nd:SBN crystals: Amorphization and luminescence inhibition. Journal of Applied Physics, 2006, 100, 113517.	2.5	7
38	Synthesis of monoclinic KGd(WO4)2 nanocrystals by two preparation methods. Journal of Nanoparticle Research, 2009, 11, 717-724.	1.9	7
39	Thermal and Optical Characterization of Undoped and Neodymium-Doped Y₃ScAl₄O₁₂ Ceramics. Journal of Physical Chemistry C, 2014, 118, 13781-13789.	3.1	7
40	Micromecanizado de materiales cerÃ¡micos mediante lÃ¡ser de femtosegundo. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2005, 44, 9-12.	1.9	7
41	Synthesis of Ceramic Nanoparticles by Ultrafast Laser Ablation of Solid Targets in Water. Journal of Nanoscience and Nanotechnology, 2006, 6, 1961-1967.	0.9	6
42	Laser-Induced Periodic Surface Structuring of Poly(trimethylene terephthalate) Films Containing Tungsten Disulfide Nanotubes. Polymers, 2020, 12, 1090.	4.5	5
43	Micro ribbon cable bonding for an implantable device. , 2008, , .		3
44	New approaches for the fabrication of photonic structures of nonlinear optical materials. Journal of Luminescence, 2009, 129, 1441-1447.	3.1	3
45	Effect of ultrashort laser microstructuring of enamel and dentin surfaces on bond strengths in orthodontics and conservative dentistry. Photonics & Lasers in Medicine, 2012, 1, .	0.2	2
46	Formation of polycrystalline TiO2 on the ablated surfaces of RbTiOPO4 single crystals by thermal annealing. CrystEngComm, 2014, 16, 4281-4288.	2.6	2
47	Fabrication of photonic structures in crystals of the KTiOPO4 family by ultrafast laser ablation. Physics Procedia, 2010, 8, 126-135.	1.2	1
48	INFLUENCIA DE LA GEOMETRÃA EN LOS MÃXIMOS DE LAS TENSIONES EN AJUSTES POR INTERFERENCIA CON AGUJEROS RANURADOS. Dyna (Spain), 2016, 91, 47-51.	0.2	1
49	<title>Optical bistable response of a linear molecular aggregate</title>. , 1996, , .		0
50	<title>Collective spontaneous emission as a source of high harmonics</title>. , 1997, 3239, 136.		0
51	Harmonic generation accompanying collective spontaneous emission. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 3273.	2.1	0
52	Numerical simulations of multi-shot femtosecond laser ablation in dielectrics. , 0, , .		0
53	Femtosecond Laser Disruption of Filamentous Cyanobacteria Unveils Dissimilar Cellular Stability Between Heterocysts and Vegetative Cells. Photochemistry and Photobiology, 2008, 84, 1576-1582.	2.5	0
54	Pulsed Laser SEU Cross-Section measurement using coincidence detectors. , 2008, , .		0

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55	Role of supercontinuum in the fragmentation of colloidal gold nanoparticles in solution. , 2009, , .		0
56	Analysis of linear and nonlinear optical properties of diffraction gratings inscribed on the surface of single crystals of the KTiOPO 4 family. , 2010, , .		0
57	PreparaciÃ³n de un nuevo material hÃbrido orgÃ¡nico/inorgÃ¡nico mediante la intercalaciÃ³n de colina en bronce de molibdeno. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 426-428.	1.9	0
58	Formation of LIPSS in nanocomposites of Poly (ethylene terephthalate)/Expanded Graphite by using UV nanosecond laser pulses. , 2016, , .		0