Pablo Molina

List of Publications by Year
in descending order

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Version: 2024-02-01

49 papers	880 citations	471371 17 h-index	477173 29 g-index
49 all docs	49 docs citations	49 times ranked	897 citing authors

#	Article	IF	Citations
1	Spatial coherence from Nd³⁺ quantum emitters mediated by a plasmonic chain. Optics Express, 2021, 29, 26244.	1.7	3
2	Enhancing Nonlinear Interactions by the Superposition of Plasmonic Lattices on Ï‡⁽²⁾-Nonlinear Photonic Crystals. ACS Photonics, 2021, 8, 2529-2537.	3.2	3
3	Spectral Narrowing in a Subwavelength Solid-State Laser. ACS Photonics, 2019, 6, 2327-2334.	3.2	3
4	Emergent room temperature polar phase in CaTiO3 nanoparticles and single crystals. APL Materials, 2019, 7, .	2.2	10
5	Hybrid Plasmonicâ€“Ferroelectric Architectures for Lasing and SHG Processes at the Nanoscale. Advanced Materials, 2019, 31, e1901428.	11.1	18
6	A fast synthesis route of boronâ€“carbonâ€“nitrogen ultrathin layers towards highly mixed ternary Bâ€“Câ€“N phases. 2D Materials, 2019, 6, 035015.	2.0	10
7	Chemical vapor deposition growth of boronâ€“carbonâ€“nitrogen layers from methylamine borane thermolysis products. Nanotechnology, 2018, 29, 025603.	1.3	21
8	Multiline Operation from a Single Plasmon-Assisted Laser. ACS Photonics, 2018, 5, 406-412.	3.2	12
9	Plasmon enhanced energy-transfer up-conversion in Yb 3+ -Er 3+ co-doped LiNbO 3 crystal. Optical Materials, 2017, 63, 173-178.	1.7	7
10	Plasmonic enhancement of second harmonic generation from nonlinear RbTiOPO_4 crystals by aggregates of silver nanostructures. Optics Express, 2016, 24, 8491.	1.7	18
11	Plasmon-Assisted Nd³⁺-Based Solid-State Nanolaser. Nano Letters, 2016, 16, 895-899.	4.5	44
12	Polarization-selective enhancement of Nd3+ photoluminescence assisted by linear chains of silver nanoparticles. Journal of Luminescence, 2016, 169, 569-573.	1.5	12
13	Controlling solid state gain media by deposition of silver nanoparticles: from thermally- quenched to plasmon-enhanced Nd^3+ luminescence. Optics Express, 2015, 23, 15670.	1.7	14
14	BaMgF₄: An Ultraâ€Transparent Twoâ€Đimensional Nonlinear Photonic Crystal with Strong Ï‡⁽³⁾ Response in the UV Spectral Region. Advanced Functional Materials, 2014, 24, 1509-1518.	7.8	36
15	Blue SHG Enhancement by Silver Nanocubes Photochemically Prepared on a RbTiOPO₄ Ferroelectric Crystal. Advanced Materials, 2014, 26, 6447-6453.	11.1	12
16	VUVâ€“UV 5dâ€“4f interconfigurational transitions of Nd3+ in BaMgF4 ferroelectric crystals. Journal of Luminescence, 2014, 153, 136-139.	1.5	5
17	Selective Plasmon Enhancement of the 1.08 Î¼m Nd³⁺ Laser Stark Transition by Tailoring Ag Nanoparticles Chains on a PPLN Y-cut. Nano Letters, 2013, 13, 4931-4936.	4.5	17
18	Spontaneous Emission and Nonlinear Response Enhancement by Silver Nanoparticles in a Nd³⁺â€Đoped Periodically Poled LiNbO₃ Laser Crystal. Advanced Materials, 2013, 25, 910-915.	11.1	38

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19	Ultrabroadband generation of multiple concurrent nonlinear coherent interactions in random quadratic media. Applied Physics Letters, 2013, 103, 101101.	1.5	5
20	Pr³⁺-Based Fluorescent TiO₂ Split Ring Resonator-Like Crystalline Microstructures. Science of Advanced Materials, 2013, 5, 921-926.	0.1	3
21	Simultaneous generation of second to fifth harmonic conical beams in a two dimensional nonlinear photonic crystal. Optics Express, 2012, 20, 29940.	1.7	26
22	Local environment of optically active Nd3+ions in the ultratransparent BaMgF4ferroelectric crystal. Physical Review B, 2012, 85, .	1.1	3
23	Infrared to visible up conversion energy transfer confined at ordered micro-ring structures. Optical Materials, 2012, 34, 2035-2040.	1.7	1
24	Multifunctional solid state lasers based on ferroelectric crystals. Optical Materials, 2012, 34, 524-535.	1.7	23
25	Faraday rotator properties of {Tb3}[Sc1.95Lu0.05](Al3)O12, a highly transparent terbium-garnet for visible-infrared optical isolators. Applied Physics Letters, 2011, 99, .	1.5	75
26	Optical spectroscopy of Yb3+ centers in BaMgF4 ferroelectric crystal. Journal of Applied Physics, 2011, 110, 063102.	1.1	4
27	CeF_3 and PrF_3 as UV-Visible Faraday rotators. Optics Express, 2011, 19, 11786.	1.7	56
28	Magneto-optical properties of Tb0.81Ca0.19F2.81 and Tb0.76Sr0.24F2.76 single crystals. Optical Materials, 2011, 33, 1710-1714.	1.7	34
29	Arrays of micro-cavities activated with laser ions. Journal of Luminescence, 2011, 131, 382-385.	1.5	1
30	Tb3+-Yb3+ cooperative down and up conversion processes in Tb0.81Ca0.19F2.81:Yb3+ single crystals. Journal of Applied Physics, 2011, 110, 123527.	1.1	13
31	Second Harmonic Conical Waves for Symmetry Studies in $chi^{(2)}$ Nonlinear Photonic Crystals. Applied Physics Express, 2011, 4, 082202.	1.1	4
32	Directional dependence of the second harmonic response in two-dimensional nonlinear photonic crystals. Applied Physics Letters, 2010, 96, .	1.5	29
33	Growth of {Tb₃}[Sc_{2â^'x}Lu_x](Al₃)O₁₂ Single Crystals for Visible-Infrared Optical Isolators. Crystal Growth and Design, 2010, 10, 3466-3470.	1.4	47
34	Rare earth doped ring-shaped luminescent micro-composites on patterned ferroelectrics. Optics Express, 2010, 18, 18269.	1.7	3
35	Neodymium doping in UV-IR transparent ferroelectric BaMgF4. Journal of Applied Physics, 2010, 107, .	1.1	8
36	Site location and crystal field ofNd3+ions in congruent strontium barium niobate. Physical Review B, 2009, 80, .	1.1	9

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37	Micrometric spatial control of rare earth ion emission in LiNbO3: A two-dimensional multicolor array. Applied Physics Letters, 2009, 95, 051103.	1.5	4
38	Suppression of Q-switching instabilities in a passively mode-locked Nd:Y3Al5O12 ceramic laser. Optical Materials, 2009, 31, 725-728.	1.7	4
39	Effect of electron beam writing parameters for ferroelectric domain structuring LiNbO3:Nd3+. Optical Materials, 2009, 31, 1777-1780.	1.7	21
40	Optical spectroscopy of neodymium-doped calcium barium niobate ferroelectric crystals. Journal of Luminescence, 2009, 129, 1658-1660.	1.5	6
41	Nonlinear prism based on the natural ferroelectric domain structure in calcium barium niobate. Applied Physics Letters, 2009, 94, .	1.5	27
42	Strontium Barium Niobate as a Multifunctional Twoâ€Ðimensional Nonlinear â€œPhotonic Glassâ€• Advanced Functional Materials, 2008, 18, 709-715.	7.8	86
43	Luminescence of Rare Earth Ions in Strontium Barium Niobate Around the Phase Transition: The Case of Tm3 + Ions. Ferroelectrics, 2008, 363, 150-162.	0.3	13
44	Selective rearrangement ofNd3+centers inLiNbO3under ferroelectric domain inversion by electron beam writing. Physical Review B, 2008, 78, .	1.1	6
45	Nd3+ ion shift under domain inversion by electron beam writing in LiNbO3. Applied Physics Letters, 2007, 90, 141901.	1.5	13
46	Improvement of laser gain by microdomain compensation effects in Nd:SrBa(Nb3O)2 lasers. Journal of Applied Physics, 2007, 102, 053101.	1.1	4
47	Luminescence of lanthanide ions in strontium barium niobate. Journal of Luminescence, 2007, 122-123, 307-310.	1.5	30
48	Fabrication of Domain Inverted Structures by Direct Electron Bombardment in LiNbO3Crystals and its Characterization. Ferroelectrics, 2006, 334, 67-72.	0.3	1
49	Near infrared and visible tunability from a diode pumped Nd3+ activated strontium barium niobate laser crystal. Applied Physics B: Lasers and Optics, 2005, 81, 827-830.	1.1	38