

Pablo Molina

List of Publications by Year in descending order

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897
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#	ARTICLE	IF	CITATIONS
1	Strontium Barium Niobate as a Multifunctional Two-Dimensional Nonlinear Photonic Glass. <i>Advanced Functional Materials</i> , 2008, 18, 709-715.	7.8	86
2	Faraday rotator properties of $\text{Tb}_3[\text{Sc}_{1.95}\text{Lu}_{0.05}](\text{Al}_3)\text{O}_{12}$, a highly transparent terbium-garnet for visible-infrared optical isolators. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	75
3	CeF ₃ and PrF ₃ as UV-Visible Faraday rotators. <i>Optics Express</i> , 2011, 19, 11786.	1.7	56
4	Growth of $\text{Tb}_3[\text{Sc}_{2x}\text{Lu}_x](\text{Al}_3)\text{O}_{12}$ Single Crystals for Visible-Infrared Optical Isolators. <i>Crystal Growth and Design</i> , 2010, 10, 3466-3470.	1.4	47
5	Plasmon-Assisted Nd ³⁺ -Based Solid-State Nanolaser. <i>Nano Letters</i> , 2016, 16, 895-899.	4.5	44
6	Near infrared and visible tunability from a diode pumped Nd ³⁺ activated strontium barium niobate laser crystal. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 827-830.	1.1	38
7	Spontaneous Emission and Nonlinear Response Enhancement by Silver Nanoparticles in a Nd ³⁺ -Doped Periodically Poled LiNbO ₃ Laser Crystal. <i>Advanced Materials</i> , 2013, 25, 910-915.	11.1	38
8	BaMgF ₄ : An Ultra-Transparent Two-Dimensional Nonlinear Photonic Crystal with Strong $\chi^{(3)}$ Response in the UV Spectral Region. <i>Advanced Functional Materials</i> , 2014, 24, 1509-1518.	7.8	36
9	Magneto-optical properties of Tb _{0.81} Ca _{0.19} F _{2.81} and Tb _{0.76} Sr _{0.24} F _{2.76} single crystals. <i>Optical Materials</i> , 2011, 33, 1710-1714.	1.7	34
10	Luminescence of lanthanide ions in strontium barium niobate. <i>Journal of Luminescence</i> , 2007, 122-123, 307-310.	1.5	30
11	Directional dependence of the second harmonic response in two-dimensional nonlinear photonic crystals. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	29
12	Nonlinear prism based on the natural ferroelectric domain structure in calcium barium niobate. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	27
13	Simultaneous generation of second to fifth harmonic conical beams in a two dimensional nonlinear photonic crystal. <i>Optics Express</i> , 2012, 20, 29940.	1.7	26
14	Multifunctional solid state lasers based on ferroelectric crystals. <i>Optical Materials</i> , 2012, 34, 524-535.	1.7	23
15	Effect of electron beam writing parameters for ferroelectric domain structuring LiNbO ₃ :Nd ³⁺ . <i>Optical Materials</i> , 2009, 31, 1777-1780.	1.7	21
16	Chemical vapor deposition growth of boron-carbon-nitrogen layers from methylamine borane thermolysis products. <i>Nanotechnology</i> , 2018, 29, 025603.	1.3	21
17	Plasmonic enhancement of second harmonic generation from nonlinear RbTiOPO ₄ crystals by aggregates of silver nanostructures. <i>Optics Express</i> , 2016, 24, 8491.	1.7	18
18	Hybrid Plasmonic-Ferroelectric Architectures for Lasing and SHG Processes at the Nanoscale. <i>Advanced Materials</i> , 2019, 31, e1901428.	11.1	18

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19	Selective Plasmon Enhancement of the 1.08 μm Nd^{3+} Laser Stark Transition by Tailoring Ag Nanoparticles Chains on a PPLN $\langle i \rangle$ -cut. Nano Letters, 2013, 13, 4931-4936.	4.5	17
20	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
21	Nd^{3+} ion shift under domain inversion by electron beam writing in LiNbO_3 . Applied Physics Letters, 2007, 90, 141901.	1.5	13
22	Luminescence of Rare Earth Ions in Strontium Barium Niobate Around the Phase Transition: The Case of Tm^{3+} Ions. Ferroelectrics, 2008, 363, 150-162.	0.3	13
23	Tb^{3+} - Yb^{3+} cooperative down and up conversion processes in $\text{Tb}_{0.81}\text{Ca}_{0.19}\text{F}_{2.81}\text{Yb}_{0.19}$ single crystals. Journal of Applied Physics, 2011, 110, 123527.	1.1	13
24	Blue SHG Enhancement by Silver Nanocubes Photochemically Prepared on a RbTiOPO_4 Ferroelectric Crystal. Advanced Materials, 2014, 26, 6447-6453.	11.1	12
25	Polarization-selective enhancement of Nd^{3+} photoluminescence assisted by linear chains of silver nanoparticles. Journal of Luminescence, 2016, 169, 569-573.	1.5	12
26	Multiline Operation from a Single Plasmon-Assisted Laser. ACS Photonics, 2018, 5, 406-412.	3.2	12
27	Emergent room temperature polar phase in CaTiO_3 nanoparticles and single crystals. APL Materials, 2019, 7, .	2.2	10
28	A fast synthesis route of boron-carbon-nitrogen ultrathin layers towards highly mixed ternary B-C-N phases. 2D Materials, 2019, 6, 035015.	2.0	10
29	Site location and crystal field of Nd^{3+} ions in congruent strontium barium niobate. Physical Review B, 2009, 80, .	1.1	9
30	Neodymium doping in UV-IR transparent ferroelectric BaMgF_4 . Journal of Applied Physics, 2010, 107, .	1.1	8
31	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
32	Selective rearrangement of Nd^{3+} centers in LiNbO_3 under ferroelectric domain inversion by electron beam writing. Physical Review B, 2008, 78, .	1.1	6
33	Optical spectroscopy of neodymium-doped calcium barium niobate ferroelectric crystals. Journal of Luminescence, 2009, 129, 1658-1660.	1.5	6
34	Ultrabroadband generation of multiple concurrent nonlinear coherent interactions in random quadratic media. Applied Physics Letters, 2013, 103, 101101.	1.5	5
35	VUV-UV $5d \rightarrow 4f$ interconfigurational transitions of Nd^{3+} in BaMgF_4 ferroelectric crystals. Journal of Luminescence, 2014, 153, 136-139.	1.5	5
36	Improvement of laser gain by microdomain compensation effects in $\text{Nd}:\text{SrBa}(\text{Nb}_3\text{O})_2$ lasers. Journal of Applied Physics, 2007, 102, 053101.	1.1	4

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37	Micrometric spatial control of rare earth ion emission in LiNbO ₃ : 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:Y ₃ Al ₅ O ₁₂ ceramic laser. Optical Materials, 2009, 31, 725-728.	1.7	4
39	Optical spectroscopy of Yb ³⁺ centers in BaMgF ₄ ferroelectric crystal. Journal of Applied Physics, 2011, 110, 063102.	1.1	4
40	Second Harmonic Conical Waves for Symmetry Studies in $\chi^{(2)}$ Nonlinear Photonic Crystals. Applied Physics Express, 2011, 4, 082202.	1.1	4
41	Rare earth doped ring-shaped luminescent micro-composites on patterned ferroelectrics. Optics Express, 2010, 18, 18269.	1.7	3
42	Local environment of optically active Nd ³⁺ ions in the ultratransparent BaMgF ₄ ferroelectric crystal. Physical Review B, 2012, 85, .	1.1	3
43	Spectral Narrowing in a Subwavelength Solid-State Laser. ACS Photonics, 2019, 6, 2327-2334.	3.2	3
44	Spatial coherence from Nd ³⁺ quantum emitters mediated by a plasmonic chain. Optics Express, 2021, 29, 26244.	1.7	3
45	Enhancing Nonlinear Interactions by the Superposition of Plasmonic Lattices on $\chi^{(2)}$ -Nonlinear Photonic Crystals. ACS Photonics, 2021, 8, 2529-2537.	3.2	3
46	Pr ³⁺ -Based Fluorescent TiO ₂ Split Ring Resonator-Like Crystalline Microstructures. Science of Advanced Materials, 2013, 5, 921-926.	0.1	3
47	Fabrication of Domain Inverted Structures by Direct Electron Bombardment in LiNbO ₃ Crystals and its Characterization. Ferroelectrics, 2006, 334, 67-72.	0.3	1
48	Arrays of micro-cavities activated with laser ions. Journal of Luminescence, 2011, 131, 382-385.	1.5	1
49	Infrared to visible up conversion energy transfer confined at ordered micro-ring structures. Optical Materials, 2012, 34, 2035-2040.	1.7	1