

Mariola O Ramirez

List of Publications by Year in descending order

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docs citations

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times ranked

2537
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatial coherence from Nd ³⁺ 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 Ti^{2+} -Nonlinear Photonic Crystals. ACS Photonics, 2021, 8, 2529-2537.	3.2	3
3	Giant Second Harmonic Generation Enhancement by Ag Nanoparticles Compactly Distributed on Hexagonal Arrangements. Nanomaterials, 2021, 11, 2394.	1.9	0
4	Spectral Narrowing in a Subwavelength Solid-State Laser. ACS Photonics, 2019, 6, 2327-2334.	3.2	3
5	Emergent room temperature polar phase in CaTiO ₃ nanoparticles and single crystals. APL Materials, 2019, 7, .	2.2	10
6	Plasmon-induced dual-wavelength operation in a Yb ³⁺ laser. Light: Science and Applications, 2019, 8, 14.	7.7	20
7	Hybrid Plasmonic-Ferroelectric Architectures for Lasing and SHG Processes at the Nanoscale. Advanced Materials, 2019, 31, e1901428.	11.1	18
8	Magnetic anisotropy of functionalized multi-walled carbon nanotube suspensions. Carbon, 2018, 131, 229-237.	5.4	15
9	Experimental evidence of charged domain walls in lead-free ferroelectric ceramics: light-driven nanodomain switching. Nanoscale, 2018, 10, 705-715.	2.8	29
10	Multiline Operation from a Single Plasmon-Assisted Laser. ACS Photonics, 2018, 5, 406-412.	3.2	12
11	Field enhancement and spectral features of hexagonal necklaces of silver nanoparticles for enhanced nonlinear optical processes. Optics Express, 2018, 26, 22394.	1.7	5
12	2D Arrays of Hexagonal Plasmonic Necklaces for Enhanced Second Harmonic Generation. Advanced Materials, 2017, 29, 1605267.	11.1	17
13	Anisotropic enhancement of Yb ³⁺ luminescence by disordered plasmonic networks self-assembled on RbTiOPO ₄ ferroelectric crystals. Nanoscale, 2017, 9, 16166-16174.	2.8	11
14	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
15	Plasmonic enhancement of second harmonic generation from nonlinear RbTiOPO ₄ crystals by aggregates of silver nanostructures. Optics Express, 2016, 24, 8491.	1.7	18
16	Spectroscopic study of radiative intra-configurational 4f ¹⁴ 4f transitions in Yb ³⁺ -doped materials using high hydrostatic pressure. Journal of Luminescence, 2016, 169, 507-515.	1.5	7
17	Plasmon-Assisted Nd ³⁺ -Based Solid-State Nanolaser. Nano Letters, 2016, 16, 895-899.	4.5	44
18	Polarization-selective enhancement of Nd ³⁺ photoluminescence assisted by linear chains of silver nanoparticles. Journal of Luminescence, 2016, 169, 569-573.	1.5	12

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19	Rare-earth doped transparent ceramics for spectral filtering and quantum information processing. APL Materials, 2015, 3, .	2.2	21
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	BaMgF ₄ : An Ultra-Transparent Two-Dimensional Nonlinear Photonic Crystal with Strong $\chi^{(3)}$ Response in the UV Spectral Region. Advanced Functional Materials, 2014, 24, 1509-1518.	7.8	36
22	Blue SHG Enhancement by Silver Nanocubes Photochemically Prepared on a RbTiOPO ₄ Ferroelectric Crystal. Advanced Materials, 2014, 26, 6447-6453.	11.1	12
23	VUV-UV 5d-4f interconfigurational transitions of Nd ³⁺ in BaMgF ₄ ferroelectric crystals. Journal of Luminescence, 2014, 153, 136-139.	1.5	5
24	Micro-spectroscopic characterization of ferroelectric domain structures in Yb ³⁺ :LiNbO ₃ prepared by electron beam writing. Optical Materials Express, 2014, 4, 1077.	1.6	21
25	Two dimensional ferroelectric domain patterns in Yb ³⁺ optically active LiNbO ₃ fabricated by direct electron beam writing. Applied Physics Letters, 2013, 102, .	1.5	33
26	Selective Plasmon Enhancement of the 1.08 μ m Nd ³⁺ Laser Stark Transition by Tailoring Ag Nanoparticles Chains on a PPLN χ -cut. Nano Letters, 2013, 13, 4931-4936.	4.5	17
27	Narrow inhomogeneous and homogeneous optical linewidths in a rare earth doped transparent ceramic. Physical Review B, 2013, 87, .	1.1	24
28	Effects of Tm ³⁺ Additions on the Crystallization of LaF ₃ Nanocrystals in Oxyfluoride Glasses: Optical Characterization and Up-Conversion. Journal of the American Ceramic Society, 2013, 96, 447-457.	1.9	46
29	Spontaneous Emission and Nonlinear Response Enhancement by Silver Nanoparticles in a Nd ³⁺ -Doped Periodically Poled LiNbO ₃ Laser Crystal. Advanced Materials, 2013, 25, 910-915.	11.1	38
30	Ultrabroadband generation of multiple concurrent nonlinear coherent interactions in random quadratic media. Applied Physics Letters, 2013, 103, 101101.	1.5	5
31	Pr ³⁺ -Based Fluorescent TiO ₂ Split Ring Resonator-Like Crystalline Microstructures. Science of Advanced Materials, 2013, 5, 921-926.	0.1	3
32	Simultaneous generation of second to fifth harmonic conical beams in a two dimensional nonlinear photonic crystal. Optics Express, 2012, 20, 29940.	1.7	26
33	Local environment of optically active Nd ³⁺ ions in the ultratransparent BaMgF ₄ ferroelectric crystal. Physical Review B, 2012, 85, .	1.1	3
34	Infrared to visible up conversion energy transfer confined at ordered micro-ring structures. Optical Materials, 2012, 34, 2035-2040.	1.7	1
35	Multifunctional solid state lasers based on ferroelectric crystals. Optical Materials, 2012, 34, 524-535.	1.7	23
36	Optical spectroscopy of Yb ³⁺ centers in BaMgF ₄ ferroelectric crystal. Journal of Applied Physics, 2011, 110, 063102.	1.1	4

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37	Arrays of micro-cavities activated with laser ions. Journal of Luminescence, 2011, 131, 382-385.	1.5	1
38	Second Harmonic Conical Waves for Symmetry Studies in $\chi^{(2)}$ Nonlinear Photonic Crystals. Applied Physics Express, 2011, 4, 082202.	1.1	4
39	Tm ³⁺ doped oxy-fluoride glass-ceramics containing NaLaF ₄ nano-crystals. Optical Materials, 2010, 33, 180-185.	1.7	50
40	Directional dependence of the second harmonic response in two-dimensional nonlinear photonic crystals. Applied Physics Letters, 2010, 96, .	1.5	29
41	Rare earth doped ring-shaped luminescent micro-composites on patterned ferroelectrics. Optics Express, 2010, 18, 18269.	1.7	3
42	Neodymium doping in UV-IR transparent ferroelectric BaMgF ₄ . Journal of Applied Physics, 2010, 107, .	1.1	8
43	Magnon sidebands and spin-charge coupling in bismuth ferrite probed by nonlinear optical spectroscopy. Physical Review B, 2009, 79, .	1.1	82
44	Spin-charge-lattice coupling through resonant multimagnon excitations in multiferroic BiFeO ₃ . Applied Physics Letters, 2009, 94, 161905.	1.5	43
45	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
46	Effect of electron beam writing parameters for ferroelectric domain structuring LiNbO ₃ :Nd ³⁺ . Optical Materials, 2009, 31, 1777-1780.	1.7	21
47	Anisotropic lattice changes in femtosecond laser inscribed Nd ³⁺ :MgO:LiNbO ₃ optical waveguides. Journal of Applied Physics, 2009, 106, .	1.1	41
48	Nonlinear prism based on the natural ferroelectric domain structure in calcium barium niobate. Applied Physics Letters, 2009, 94, .	1.5	27
49	Strontium Barium Niobate as a Multifunctional Two-Dimensional Nonlinear $\chi^{(2)}$ Photonic Glass. Advanced Functional Materials, 2008, 18, 709-715.	7.8	86
50	Sintering and grain growth in SiO ₂ doped Nd:YAG. Journal of the European Ceramic Society, 2008, 28, 1527-1534.	2.8	159
51	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
52	Linear and nonlinear optical properties of BiFeO ₃ . Applied Physics Letters, 2008, 92, .	1.5	213
53	Lanthanide doped strontium barium niobate: Optical spectroscopy and local structure at the impurity sites. Journal of Alloys and Compounds, 2008, 451, 12-17.	2.8	19
54	Three-dimensional grain boundary spectroscopy in transparent high power ceramic laser materials. Optics Express, 2008, 16, 5965.	1.7	75

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55	energy transfer in the ferroelectric Nd^{3+} centers in LiNbO_3 under ferroelectric domain inversion by electron beam writing. Physical Review B, 2008, 77, .	1.1	26
56	Two-phonon coupling to the antiferromagnetic phase transition in multiferroic BiFeO_3 . Applied Physics Letters, 2008, 92, .	1.5	116
57	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
58	Two dimensional dynamic focusing and optical switching of laser light by ferroelectric devices. , 2008, , .		0
59	Two dimensional dynamic focusing of laser light by ferroelectric domain based electro-optic lenses. Applied Physics Letters, 2007, 90, 201106.	1.5	8
60	Nd^{3+} ion shift under domain inversion by electron beam writing in LiNbO_3 . Applied Physics Letters, 2007, 90, 141901.	1.5	13
61	All-optical modulation of laser light in amorphous silicon-filled microstructured optical fibers. Applied Physics Letters, 2007, 91, .	1.5	50
62	Probability of Yb^{3+} $f^4 \rightarrow f^3$ transitions in gadolinium gallium garnet crystals at high hydrostatic pressures. Physical Review B, 2007, 75, .	1.1	22
63	Confocal Micro-Fluorescence and Raman Spectroscopy across Grain Boundaries in Transparent Nd^{3+} :YAG Ceramic Laser Gain Media. , 2007, , .		0
64	Photoluminescence of $\text{Bi}_4\text{Si}_3\text{O}_{12}:\text{Er}^{3+}$ crystal excited in the commercial laser diode emission region. Optical Materials, 2007, 29, 605-609.	1.7	7
65	Luminescence of lanthanide ions in strontium barium niobate. Journal of Luminescence, 2007, 122-123, 307-310.	1.5	30
66	Optical spectroscopy of Yb^{3+} -doped $\text{Ca}_3\text{Sc}_2\text{Ge}_3\text{O}_{12}$ garnet crystal. Journal of Applied Physics, 2006, 99, 013507.	1.1	5
67	Optical Properties of Active Ions Around the Ferro-Paraelectric Phase Transition in SBN Crystals. Ferroelectrics, 2006, 337, 33-39.	0.3	4
68	Optical spectroscopy of Nd^{3+} ions in poly(acrylic acid). Journal of Physics Condensed Matter, 2006, 18, 7951-7959.	0.7	20
69	Thermal hysteresis in the luminescence of Yb^{3+} ions in $\text{Sr}_{0.6}\text{Ba}_{0.4}\text{Nb}_2\text{O}_6$. Physical Review B, 2006, 73, .	1.1	29
70	Fabrication of Domain Inverted Structures by Direct Electron Bombardment in LiNbO_3 Crystals and its Characterization. Ferroelectrics, 2006, 334, 67-72.	0.3	1
71	Bistable luminescence of trivalent rare-earth ions in crystals. Journal of Luminescence, 2006, 119-120, 314-317.	1.5	1
72	Phase transition in $\text{Sr}_x\text{Ba}_{1-x}\text{Nb}_2\text{O}_6$ ferroelectric crystals probed by Raman spectroscopy. Journal Physics D: Applied Physics, 2006, 39, 4930-4934.	1.3	46

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73	High-pressure-induced ferroelectric phase transition in the $\text{Yb}^{3+}:\text{Sr}_0.6\text{Ba}_0.4\text{Nb}_2\text{O}_6$ crystal at liquid helium temperature. <i>Physical Review B</i> , 2006, 74, .	1.1	10
74	Wide infrared and visible tunability from a $\text{Nd}^{3+}:\text{Ba}_2\text{NaNbO}_{15}$ self-frequency-converter disordered laser crystal. <i>Journal of Applied Physics</i> , 2006, 99, 026105.	1.1	4
75	Intracavity thermal loading measurements and evaluation of the intrinsic fluorescence quantum efficiency in $\text{Yb}^{3+}:\text{LiNbO}_3:\text{MgO}$ lasers. <i>Applied Physics Letters</i> , 2006, 89, 091122.	1.5	3
76	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
77	Coherent Light Generation from a $\text{Nd}^{3+}:\text{SBNN}$ Nonlinear Laser Crystal through its Ferroelectric Phase Transition. <i>Physical Review Letters</i> , 2005, 95, 267401.	2.9	67
78	Temperature dependence of $\text{Nd}^{3+} \rightarrow \text{Yb}^{3+}$ energy transfer in the $\text{YAl}_3(\text{BO}_3)_4$ nonlinear laser crystal. <i>Journal of Applied Physics</i> , 2005, 97, 093510.	1.1	30
79	Influence of hydrostatic pressure on radiative transition probability of the intrashell $f \rightarrow f$ transitions in Yb^{3+} ions in lithium niobate crystals. <i>Physical Review B</i> , 2005, 72, .	1.1	18
80	Thermal hysteresis in the luminescence of Cr^{3+} ions in $\text{Sr}_0.6\text{Ba}_0.4(\text{NbO}_3)_2$. <i>Applied Physics Letters</i> , 2004, 84, 2787-2789.	1.5	28
81	Evaluation of ytterbium doped strontium barium niobate as a potential tunable laser crystal in the visible. <i>Journal of Applied Physics</i> , 2004, 95, 6185-6191.	1.1	38
82	Investigation of the Thermal Hysteresis at the Phase Transition of Relaxor Ferroelectric $\text{Sr}_0.61\text{Ba}_0.39(\text{NbO}_3)_2$. <i>Ferroelectrics, Letters Section</i> , 2004, 31, 35-41.	0.4	11
83	Optical performance of Yb^{3+} in LiNbO_3 laser crystal. <i>Physica Status Solidi A</i> , 2004, 201, 289-297.	1.7	16
84	Influence of Nd^{3+} and Yb^{3+} concentration on the $\text{Nd}^{3+} \rightarrow \text{Yb}^{3+}$ energy-transfer efficiency in the $\text{YAl}_3(\text{BO}_3)_4$ nonlinear crystal: determination of optimum concentrations for laser applications. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 1203.	0.9	23
85	74% Slope efficiency from a diode-pumped $\text{Yb}^{3+}:\text{LiNbO}_3:\text{MgO}$ laser crystal. <i>Applied Physics B: Lasers and Optics</i> , 2003, 77, 621-623.	1.1	12
86	Luminescence of trivalent rare earth ions in the yttrium aluminium borate non-linear laser crystal. <i>Journal of Luminescence</i> , 2003, 102-103, 216-219.	1.5	33
87	Hysteretic behaviour in the fluorescence of Yb^{3+} in $\text{LiNbO}_3:\text{MgO}$ crystals. <i>Journal of Luminescence</i> , 2003, 102-103, 206-210.	1.5	10
88	Optical spectroscopy and crystal-field analysis of $\text{YAl}_3(\text{BO}_3)_4$ single crystals doped with dysprosium. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 1047-1056.	0.7	33
89	Spectroscopic study of Yb^{3+} centres in the $\text{YAl}_3(\text{BO}_3)_4$ nonlinear laser crystal. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 7789-7801.	0.7	16
90	$\text{Nd}^{3+} \rightarrow \text{Yb}^{3+}$ energy transfer in the $\text{YAl}_3(\text{BO}_3)_4$ nonlinear laser crystal. <i>Physical Review B</i> , 2003, 68, .	1.1	89

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91	Yb ³⁺ sites in YAl ₃ (BO ₃) ₄ nonlinear crystals. , 2003, , .		0
92	Rare Earth Ion Doped Non Linear Laser Crystals. Radiation Effects and Defects in Solids, 2003, 158, 231-239.	0.4	5
93	Up-Conversion Luminescence in the Bi ₁₂ SiO ₂₀ :Er ³⁺ Photo-Refractive Crystal. Ferroelectrics, 2002, 272, 69-74.	0.3	5
94	Optical spectroscopy of Er ³⁺ -doped Bi ₁₂ SiO ₂₀ piezoelectric crystal. Journal of Alloys and Compounds, 2002, 341, 275-279.	2.8	9
95	Photoluminescence of Bi ₁₂ SiO ₂₀ :Er ³⁺ excited in the commercial laser diode emission region. Journal of Materials Science Letters, 2002, 21, 1517-1519.	0.5	6
96	Optical characterization and laser gain modeling of a NdAl ₃ (BO ₃) ₄ (NAB) microchip laser crystal. Journal of Applied Physics, 2001, 90, 561-569.	1.1	56
97	Site-selective spectroscopy of Er ³⁺ ions in the Bi ₁₂ SiO ₂₀ piezoelectric crystal. Journal of Physics Condensed Matter, 2001, 13, 11067-11076.	0.7	8
98	Thermal loading in highly efficient diode pumped ytterbium doped lithium niobate lasers. , 0, , .		2