

Mariola O Ramirez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2985500/publications.pdf>

Version: 2024-02-01

98
papers

2,401
citations

185998

28
h-index

233125

45
g-index

99
all docs

99
docs citations

99
times ranked

2537
citing authors

#	ARTICLE	IF	CITATIONS
1	Linear and nonlinear optical properties of BiFeO ₃ . Applied Physics Letters, 2008, 92, .	1.5	213
2	Sintering and grain growth in SiO ₂ doped Nd:YAG. Journal of the European Ceramic Society, 2008, 28, 1527-1534.	2.8	159
3	Two-phonon coupling to the antiferromagnetic phase transition in multiferroic BiFeO ₃ . Applied Physics Letters, 2008, 92, .	1.5	116
4	Nd ³⁺ :Yb ³⁺ -energy transfer in the YAl ₃ (BO ₃) ₄ nonlinear laser crystal. Physical Review B, 2003, 68, .	1.1	89
5	Strontium Barium Niobate as a Multifunctional Two-Dimensional Nonlinear Photonic Glass. Advanced Functional Materials, 2008, 18, 709-715.	7.8	86
6	Magnon sidebands and spin-charge coupling in bismuth ferrite probed by nonlinear optical spectroscopy. Physical Review B, 2009, 79, .	1.1	82
7	Three-dimensional grain boundary spectroscopy in transparent high power ceramic laser materials. Optics Express, 2008, 16, 5965.	1.7	75
8	Coherent Light Generation from a Nd ³⁺ :SBN Nonlinear Laser Crystal through its Ferroelectric Phase Transition. Physical Review Letters, 2005, 95, 267401.	2.9	67
9	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
10	All-optical modulation of laser light in amorphous silicon-filled microstructured optical fibers. Applied Physics Letters, 2007, 91, .	1.5	50
11	Tm ³⁺ doped oxy-fluoride glass-ceramics containing NaLaF ₄ nano-crystals. Optical Materials, 2010, 33, 180-185.	1.7	50
12	Phase transition in Sr _x Ba _{1-x} Nb ₂ O ₆ ferroelectric crystals probed by Raman spectroscopy. Journal Physics D: Applied Physics, 2006, 39, 4930-4934.	1.3	46
13	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
14	Plasmon-Assisted Nd ³⁺ -Based Solid-State Nanolaser. Nano Letters, 2016, 16, 895-899.	4.5	44
15	Spin-charge-lattice coupling through resonant multimagnon excitations in multiferroic BiFeO ₃ . Applied Physics Letters, 2009, 94, 161905.	1.5	43
16	Anisotropic lattice changes in femtosecond laser inscribed Nd ³⁺ :MgO:LiNbO ₃ optical waveguides. Journal of Applied Physics, 2009, 106, .	1.1	41
17	Evaluation of ytterbium doped strontium barium niobate as a potential tunable laser crystal in the visible. Journal of Applied Physics, 2004, 95, 6185-6191.	1.1	38
18	Near infrared and visible tunability from a diode pumped Nd ³⁺ activated strontium barium niobate laser crystal. Applied Physics B: Lasers and Optics, 2005, 81, 827-830.	1.1	38

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Optical spectroscopy and crystal-field analysis of YAl ₃ (BO ₃) ₄ single crystals doped with dysprosium. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 1047-1056.	0.7	33
23	Two dimensional ferroelectric domain patterns in Yb ³⁺ optically active LiNbO ₃ fabricated by direct electron beam writing. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	33
24	Temperature dependence of Nd ³⁺ →Yb ³⁺ energy transfer in the YAl ₃ (BO ₃) ₄ nonlinear laser crystal. <i>Journal of Applied Physics</i> , 2005, 97, 093510.	1.1	30
25	Luminescence of lanthanide ions in strontium barium niobate. <i>Journal of Luminescence</i> , 2007, 122-123, 307-310.	1.5	30
26	Thermal hysteresis in the luminescence of Yb ³⁺ ions in Sr _{0.6} Ba _{0.4} Nb ₂ O ₆ . <i>Physical Review B</i> , 2006, 73, .	1.1	29
27	Directional dependence of the second harmonic response in two-dimensional nonlinear photonic crystals. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	29
28	Experimental evidence of charged domain walls in lead-free ferroelectric ceramics: light-driven nanodomain switching. <i>Nanoscale</i> , 2018, 10, 705-715.	2.8	29
29	Thermal hysteresis in the luminescence of Cr ³⁺ ions in Sr _{0.6} Ba _{0.4} (NbO ₃) ₂ . <i>Applied Physics Letters</i> , 2004, 84, 2787-2789.	1.5	28
30	Nonlinear prism based on the natural ferroelectric domain structure in calcium barium niobate. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	27
31	$\text{Nd}^{3+} \rightarrow \text{Yb}^{3+} \text{ energy transfer in the ferroelectric } \text{YAl}_3(\text{BO}_3)_4$		26
32	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
33	Narrow inhomogeneous and homogeneous optical linewidths in a rare earth doped transparent ceramic. <i>Physical Review B</i> , 2013, 87, .	1.1	24
34	Influence of Nd ³⁺ and Yb ³⁺ concentration on the Nd ³⁺ →Yb ³⁺ energy-transfer efficiency in the YAl ₃ (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
35	Multifunctional solid state lasers based on ferroelectric crystals. <i>Optical Materials</i> , 2012, 34, 524-535.	1.7	23
36	Probability of Yb ³⁺ → ^{4f} transitions in gadolinium gallium garnet crystals at high hydrostatic pressures. <i>Physical Review B</i> , 2007, 75, .	1.1	22

#	ARTICLE	IF	CITATIONS
37	Effect of electron beam writing parameters for ferroelectric domain structuring LiNbO ₃ :Nd ³⁺ . Optical Materials, 2009, 31, 1777-1780.	1.7	21
38	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
39	Rare-earth doped transparent ceramics for spectral filtering and quantum information processing. APL Materials, 2015, 3, .	2.2	21
40	Optical spectroscopy of Nd ³⁺ ions in poly(acrylic acid). Journal of Physics Condensed Matter, 2006, 18, 7951-7959.	0.7	20
41	Plasmon-induced dual-wavelength operation in a Yb ³⁺ laser. Light: Science and Applications, 2019, 8, 14.	7.7	20
42	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
43	Influence of hydrostatic pressure on radiative transition probability of the intrashell 4f transitions in Yb ³⁺ ions in lithium niobate crystals. Physical Review B, 2005, 72, .	1.1	18
44	Plasmonic enhancement of second harmonic generation from nonlinear RbTiOPO ₄ crystals by aggregates of silver nanostructures. Optics Express, 2016, 24, 8491.	1.7	18
45	Hybrid Plasmonic "Ferroelectric Architectures for Lasing and SHG Processes at the Nanoscale. Advanced Materials, 2019, 31, e1901428.	11.1	18
46	Selective Plasmon Enhancement of the 1.08 μ m Nd ³⁺ Laser Stark Transition by Tailoring Ag Nanoparticles Chains on a PPLN Y-cut. Nano Letters, 2013, 13, 4931-4936.	4.5	17
47	2D Arrays of Hexagonal Plasmonic Necklaces for Enhanced Second Harmonic Generation. Advanced Materials, 2017, 29, 1605267.	11.1	17
48	Spectroscopic study of Yb ³⁺ centres in the YAl ₃ (BO ₃) ₄ nonlinear laser crystal. Journal of Physics Condensed Matter, 2003, 15, 7789-7801.	0.7	16
49	Optical performance of Yb ³⁺ in LiNbO ₃ laser crystal. Physica Status Solidi A, 2004, 201, 289-297.	1.7	16
50	Magnetic anisotropy of functionalized multi-walled carbon nanotube suspensions. Carbon, 2018, 131, 229-237.	5.4	15
51	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
52	Nd ³⁺ ion shift under domain inversion by electron beam writing in LiNbO ₃ . Applied Physics Letters, 2007, 90, 141901.	1.5	13
53	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
54	74% Slope efficiency from a diode-pumped Yb ³⁺ :LiNbO ₃ :MgO laser crystal. Applied Physics B: Lasers and Optics, 2003, 77, 621-623.	1.1	12

#	ARTICLE	IF	CITATIONS
55	Blue SHG Enhancement by Silver Nanocubes Photochemically Prepared on a RbTiOPO ₄ Ferroelectric Crystal. <i>Advanced Materials</i> , 2014, 26, 6447-6453.	11.1	12
56	Polarization-selective enhancement of Nd ³⁺ photoluminescence assisted by linear chains of silver nanoparticles. <i>Journal of Luminescence</i> , 2016, 169, 569-573.	1.5	12
57	Multiline Operation from a Single Plasmon-Assisted Laser. <i>ACS Photonics</i> , 2018, 5, 406-412.	3.2	12
58	Investigation of the Thermal Hysteresis at the Phase Transition of Relaxor Ferroelectric Sr _{0.61} Ba _{0.39} (NbO ₃) ₂ . <i>Ferroelectrics, Letters Section</i> , 2004, 31, 35-41.	0.4	11
59	Anisotropic enhancement of Yb ³⁺ luminescence by disordered plasmonic networks self-assembled on RbTiOPO ₄ ferroelectric crystals. <i>Nanoscale</i> , 2017, 9, 16166-16174.	2.8	11
60	Hysteretic behaviour in the fluorescence of Yb ³⁺ in LiNbO ₃ :MgO crystals. <i>Journal of Luminescence</i> , 2003, 102-103, 206-210.	1.5	10
61	High-pressure-induced ferroelectric phase transition in the Yb ³⁺ :Sr _{0.6} Ba _{0.4} Nb ₂ O ₆ crystal at liquid helium temperature. <i>Physical Review B</i> , 2006, 74, .	1.1	10
62	Emergent room temperature polar phase in CaTiO ₃ nanoparticles and single crystals. <i>APL Materials</i> , 2019, 7, .	2.2	10
63	Optical spectroscopy of Er ³⁺ -doped Bi ₁₂ SiO ₂₀ piezoelectric crystal. <i>Journal of Alloys and Compounds</i> , 2002, 341, 275-279.	2.8	9
64	Site-selective spectroscopy of Er ³⁺ ions in the Bi ₁₂ SiO ₂₀ piezoelectric crystal. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 11067-11076.	0.7	8
65	Two dimensional dynamic focusing of laser light by ferroelectric domain based electro-optic lenses. <i>Applied Physics Letters</i> , 2007, 90, 201106.	1.5	8
66	Neodymium doping in UV-IR transparent ferroelectric BaMgF ₄ . <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	8
67	Photoluminescence of Bi ₄ Si ₃ O ₁₂ :Er ³⁺ crystal excited in the commercial laser diode emission region. <i>Optical Materials</i> , 2007, 29, 605-609.	1.7	7
68	Spectroscopic study of radiative intra-configurational 4f ⁿ →4f transitions in Yb ³⁺ -doped materials using high hydrostatic pressure. <i>Journal of Luminescence</i> , 2016, 169, 507-515.	1.5	7
69	Plasmon enhanced energy-transfer up-conversion in Yb ³⁺ -Er ³⁺ co-doped LiNbO ₃ crystal. <i>Optical Materials</i> , 2017, 63, 173-178.	1.7	7
70	Photoluminescence of Bi ₁₂ SiO ₂₀ :Er ³⁺ excited in the commercial laser diode emission region. <i>Journal of Materials Science Letters</i> , 2002, 21, 1517-1519.	0.5	6
71	Selective rearrangement of Nd ³⁺ centers in LiNbO ₃ under ferroelectric domain inversion by electron beam writing. <i>Physical Review B</i> , 2008, 78, .	1.1	6
72	Up-Conversion Luminescence in the Bi ₁₂ SiO ₂₀ :Er ³⁺ Photo-Refractive Crystal. <i>Ferroelectrics</i> , 2002, 272, 69-74.	0.3	5

#	ARTICLE	IF	CITATIONS
73	Rare Earth Ion Doped Non Linear Laser Crystals. Radiation Effects and Defects in Solids, 2003, 158, 231-239.	0.4	5
74	Optical spectroscopy of Yb ³⁺ -doped Ca ₃ Sc ₂ Ge ₃ O ₁₂ garnet crystal. Journal of Applied Physics, 2006, 99, 013507.	1.1	5
75	Ultrabroadband generation of multiple concurrent nonlinear coherent interactions in random quadratic media. Applied Physics Letters, 2013, 103, 101101.	1.5	5
76	VUV-UV 5d-4f interconfigurational transitions of Nd ³⁺ in BaMgF ₄ ferroelectric crystals. Journal of Luminescence, 2014, 153, 136-139.	1.5	5
77	Field enhancement and spectral features of hexagonal necklaces of silver nanoparticles for enhanced nonlinear optical processes. Optics Express, 2018, 26, 22394.	1.7	5
78	Optical Properties of Active Ions Around the Ferro-Paraelectric Phase Transition in SBN Crystals. Ferroelectrics, 2006, 337, 33-39.	0.3	4
79	Wide infrared and visible tunability from a Nd ³⁺ :Ba ₂ NaNbO ₁₅ self-frequency-converter disordered laser crystal. Journal of Applied Physics, 2006, 99, 026105.	1.1	4
80	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
81	Optical spectroscopy of Yb ³⁺ centers in BaMgF ₄ ferroelectric crystal. Journal of Applied Physics, 2011, 110, 063102.	1.1	4
82	Second Harmonic Conical Waves for Symmetry Studies in $\chi^{(2)}$ Nonlinear Photonic Crystals. Applied Physics Express, 2011, 4, 082202.	1.1	4
83	Intracavity thermal loading measurements and evaluation of the intrinsic fluorescence quantum efficiency in Yb ³⁺ :LiNbO ₃ :MgO lasers. Applied Physics Letters, 2006, 89, 091122.	1.5	3
84	Rare earth doped ring-shaped luminescent micro-composites on patterned ferroelectrics. Optics Express, 2010, 18, 18269.	1.7	3
85	Local environment of optically active Nd ³⁺ ions in the ultratransparent BaMgF ₄ ferroelectric crystal. Physical Review B, 2012, 85, .	1.1	3
86	Spectral Narrowing in a Subwavelength Solid-State Laser. ACS Photonics, 2019, 6, 2327-2334.	3.2	3
87	Spatial coherence from Nd ³⁺ quantum emitters mediated by a plasmonic chain. Optics Express, 2021, 29, 26244.	1.7	3
88	Enhancing Nonlinear Interactions by the Superposition of Plasmonic Lattices on $\chi^{(2)}$ -Nonlinear Photonic Crystals. ACS Photonics, 2021, 8, 2529-2537.	3.2	3
89	Pr ³⁺ -Based Fluorescent TiO ₂ -Split Ring Resonator-Like Crystalline Microstructures. Science of Advanced Materials, 2013, 5, 921-926.	0.1	3
90	Thermal loading in highly efficient diode pumped ytterbium doped lithium niobate lasers. , 0, , .		2

#	ARTICLE	IF	CITATIONS
91	Fabrication of Domain Inverted Structures by Direct Electron Bombardment in LiNbO ₃ Crystals and its Characterization. <i>Ferroelectrics</i> , 2006, 334, 67-72.	0.3	1
92	Bistable luminescence of trivalent rare-earth ions in crystals. <i>Journal of Luminescence</i> , 2006, 119-120, 314-317.	1.5	1
93	Arrays of micro-cavities activated with laser ions. <i>Journal of Luminescence</i> , 2011, 131, 382-385.	1.5	1
94	Infrared to visible up conversion energy transfer confined at ordered micro-ring structures. <i>Optical Materials</i> , 2012, 34, 2035-2040.	1.7	1
95	Yb ³⁺ sites in YAl ₃ (BO ₃) ₄ nonlinear crystals. , 2003, , .		0
96	Confocal Micro-Fluorescence and Raman Spectroscopy across Grain Boundaries in Transparent Nd ³⁺ :YAG Ceramic Laser Gain Media. , 2007, , .		0
97	Giant Second Harmonic Generation Enhancement by Ag Nanoparticles Compactly Distributed on Hexagonal Arrangements. <i>Nanomaterials</i> , 2021, 11, 2394.	1.9	0
98	Two dimensional dynamic focusing and optical switching of laser light by ferroelectric devices. , 2008, , .		0