

Marilou Cadatal-Raduban

List of Publications by Year in descending order

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102
papers

863
citations

430874

18
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642732

23
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102
all docs

102
docs citations

102
times ranked

491
citing authors

#	ARTICLE	IF	CITATIONS
1	Proposed design principle of fluoride-based materials for deep ultraviolet light emitting devices. <i>Optical Materials</i> , 2007, 30, 15-17.	3.6	45
2	Response-time-improved ZnO scintillator by impurity doping. <i>Journal of Crystal Growth</i> , 2011, 318, 788-790.	1.5	34
3	Vacuum ultraviolet luminescence from a micro-pulling-down method grown Nd ³⁺ :(La _{0.9} Ba _{0.1})F _{2.9} . <i>Journal of Luminescence</i> , 2009, 129, 1629-1631.	3.1	28
4	Effects of Pulse Rate and Temperature on Nonlinear Absorption of Pulsed 262-nm Laser Light in $\hat{1}^2$ -BaB ₂ O ₄ . <i>Japanese Journal of Applied Physics</i> , 2010, 49, 080211.	1.5	28
5	Perovskite fluoride crystals as light emitting materials in vacuum ultraviolet region. <i>Optical Materials</i> , 2014, 36, 769-772.	3.6	27
6	$\text{Nd}^{3+}:\text{LaF}_3$ as a Step-Wise Excited Scintillator for Femtosecond Ultraviolet Pulses. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 1208-1210.	2.0	25
7	Strong enhancement of terahertz emission from GaAs in InAs/GaAs quantum dot structures. <i>Applied Physics Letters</i> , 2009, 94, 232104.	3.3	24
8	Er:LiCAF as Potential Vacuum Ultraviolet Laser Material at 163 nm. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 1204-1207.	2.0	24
9	Nd ³⁺ :(La _{1-x} Ba _x)F _{3-x} Grown by Micro-Pulling Down Method as Vacuum Ultraviolet Scintillator and Potential Laser Material. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L985.	1.5	23
10	Micro-pulling down method-grown Er ³⁺ :LiCaAlF ₆ as prospective vacuum ultraviolet laser material. <i>Journal of Crystal Growth</i> , 2013, 362, 167-169.	1.5	23
11	Laser Quality Ce ³⁺ :LiCaAlF ₆ Grown by Micro-Pulling-Down Method. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 5605.	1.5	22
12	Development of Vacuum Ultraviolet Streak Camera System for the Evaluation of Vacuum Ultraviolet Emitting Materials. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 096503.	1.5	21
13	Response Time-Shortened Zinc Oxide Scintillator for Accurate Single-Shot Synchronization of Extreme Ultraviolet Free-Electron Laser and Short-Pulse Laser. <i>Applied Physics Express</i> , 2011, 4, 062701.	2.4	21
14	Spectroscopic properties of Pr ³⁺ -doped 20Al(PO ₃) ₃ -80LiF glasses as potential scintillators for neutron detection. <i>Journal of Luminescence</i> , 2018, 193, 13-21.	3.1	21
15	Pr or Ce-doped, fast-response and low-afterglow cross-section-enhanced scintillator with 6Li for down-scattered neutron originated from laser fusion. <i>Journal of Crystal Growth</i> , 2013, 362, 288-290.	1.5	20
16	Birefringence of $\hat{1}^2$ -BaB ₂ O ₄ crystal in the terahertz region for parametric device design. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	19
17	Luminescence properties of Nd ³⁺ and Er ³⁺ doped glasses in the VUV region. <i>Optical Materials</i> , 2013, 35, 1962-1964.	3.6	19
18	First-principles calculations of electronic and optical properties of LiCaAlF ₆ and LiSrAlF ₆ crystals as VUV to UV solid-state laser materials. <i>Optical Materials</i> , 2017, 65, 15-20.	3.6	19

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19	Vacuum ultraviolet optical properties of a micro-pulling-down-method grown Nd ³⁺ :(La _{0.09} Ba _{0.01})F _{2.9} . Journal of the Optical Society of America B: Optical Physics, 2008, 25, B27.	2.1	18
20	Improved fourth harmonic generation in $\hat{1}^2$ -BaB ₂ O ₄ by tight elliptical focusing perpendicular to walk-off plane. Journal of Crystal Growth, 2011, 318, 606-609.	1.5	17
21	High pressure band gap modification of LiCaAlF ₆ . Applied Physics Letters, 2017, 110, .	3.3	15
22	Reduction of Nonlinear Absorption in Li ₂ B ₄ O ₇ by Temperature- and Repetition Rate-Control. Japanese Journal of Applied Physics, 2009, 48, 112502.	1.5	14
23	Note: Light output enhanced fast response and low afterglow L6i glass scintillator as potential down-scattered neutron diagnostics for inertial confinement fusion. Review of Scientific Instruments, 2010, 81, 106105.	1.3	14
24	Fast-response, Low-Afterglow 4,4'-Bis[(2-butyloctyl)oxy]-1,1':4',1'':4'',1'''-quarterphenyl Dye-Based Liquid Scintillator for High-Contrast Detection of Laser Fusion-Generated Neutrons. Japanese Journal of Applied Physics, 2011, 50, 080208.	1.5	14
25	Numerical simulation of ultraviolet picosecond Ce:LiCAF laser emission by optimized resonator transients. Japanese Journal of Applied Physics, 2014, 53, 062701.	1.5	14
26	Comparison of the electronic band structures of LiCaAlF ₆ and LiSrAlF ₆ ultraviolet laser host media from ab initio calculations. Japanese Journal of Applied Physics, 2015, 54, 122602.	1.5	13
27	Spectroscopic investigation of praseodymium and cerium co-doped 20Al(PO ₃) ₃ -80LiF glass for potential scintillator applications. Journal of Non-Crystalline Solids, 2019, 521, 119495.	3.1	13
28	VUV fluorescence from Nd ³⁺ :LuLiF ₄ by two photon excitation using femtosecond laser. Optical Materials, 2013, 35, 2030-2033.	3.6	12
29	Fabrication of In-Doped ZnO Scintillator Mounted on a Vacuum Flange. IEEE Transactions on Nuclear Science, 2012, 59, 2290-2293.	2.0	11
30	Pulsed full-color digital holography with a hydrogen Raman shifter. Applied Optics, 2004, 43, 2267.	2.1	10
31	Excitonic luminescence in two-dimensionally confined layered sulfide oxides. Applied Physics Letters, 2012, 101, 191901.	3.3	10
32	Optical properties of hydrothermal-method-grown ZnO crystal as EUV laser diagnostics material. Journal of Crystal Growth, 2013, 362, 264-267.	1.5	10
33	Significant blue-shift in photoluminescence excitation spectra of Nd ³⁺ :LaF ₃ potential laser medium at low-temperature. Optical Materials, 2015, 47, 462-464.	3.6	10
34	Filterless tunable photoconductive ultraviolet radiation detector using CeF ₃ thin films grown by pulsed laser deposition. AIP Advances, 2020, 10, .	1.3	10
35	Effect of Substrate and Thickness on the Photoconductivity of Nanoparticle Titanium Dioxide Thin Film Vacuum Ultraviolet Photoconductive Detector. Nanomaterials, 2022, 12, 10.	4.1	10
36	Optical Characteristic Improvement of Neodymium-Doped Lanthanum Fluoride Thin Films Grown by Pulsed Laser Deposition for Vacuum Ultraviolet Application. Japanese Journal of Applied Physics, 2012, 51, 022603.	1.5	9

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37	Amplification of Ultraviolet Femtosecond Pulse by a Micro-Pulling Down Method-Grown Ce:LiCAF Crystal in a Prismatic Cell-Type, Side-Pumping Configuration. Japanese Journal of Applied Physics, 2009, 48, 120213.	1.5	8
38	Intense terahertz emission from undoped GaAs/n-type GaAs and InAs/AlSb structures grown on Si substrates in the transmission-geometry excitation. Applied Physics B: Lasers and Optics, 2011, 103, 825-829.	2.2	8
39	Potential High-Spatial Resolution In-Situ Imaging of Soft X-Ray Laser Pulses With ZnO Crystal. IEEE Transactions on Nuclear Science, 2012, 59, 2294-2297.	2.0	8
40	Temperature-dependent evaluation of Nd:LiCAF optical properties as potential vacuum ultraviolet laser material. Optical Materials, 2016, 58, 5-8.	3.6	8
41	Titanium dioxide thin films as vacuum ultraviolet photoconductive detectors with enhanced photoconductivity by gamma-ray irradiation. Thin Solid Films, 2021, 726, 138637.	1.8	8
42	Optical Characteristic Improvement of Neodymium-Doped Lanthanum Fluoride Thin Films Grown by Pulsed Laser Deposition for Vacuum Ultraviolet Application. Japanese Journal of Applied Physics, 2012, 51, 022603.	1.5	8
43	The influence of CeF ₃ on radiation hardness and luminescence properties of Gd ₂ O ₃ :B ₂ O ₃ glass scintillator. Scientific Reports, 2022, 12, .	3.3	8
44	Micro-pulling-down-method-grown Ce:LiCAF crystal for side-pumped laser amplifier. Journal of Crystal Growth, 2011, 318, 737-740.	1.5	7
45	Tunable narrow linewidth picosecond pulses from a single grating gain-switched Ce:LiCAF laser. Laser Physics, 2018, 28, 085802.	1.2	7
46	Band gap engineering of Ca _x Sr _{1-x} F ₂ and its application as filterless vacuum ultraviolet photodetectors with controllable spectral responses. Optical Materials, 2019, 88, 576-579.	3.6	7
47	Fast-Response and Low-Afterglow Cerium-Doped Lithium 6 Fluoro-Oxide Glass Scintillator for Laser Fusion-Originated Down-Scattered Neutron Detection. IEEE Transactions on Nuclear Science, 2012, 59, 2256-2259.	2.0	6
48	Indium-Doped ZnO Scintillator With 3-Ps Response Time for Accurate Synchronization of Optical and X-Ray Free Electron Laser Pulses. IEEE Transactions on Nuclear Science, 2012, 59, 2298-2300.	2.0	6
49	Electronic States of Trivalent Praseodymium Ion Doped in 20Al(PO ₃) ₃ :80LiF Glass. Japanese Journal of Applied Physics, 2013, 52, 062402.	1.5	6
50	Direct band gap tunability of the LiYF ₄ crystal through high-pressure applications. Computational Materials Science, 2018, 153, 431-437.	3.0	6
51	Investigation of cross luminescence in lanthanum fluoride as a potential fast-response scintillator. Japanese Journal of Applied Physics, 2020, 59, 052005.	1.5	6
52	Investigations on the electric-dipole allowed 4f _{25/2} → 4f ₃ broadband emission of Nd ³⁺ -doped 20Al(PO ₃) ₃ :80LiF glass for potential VUV scintillator application. Journal of Alloys and Compounds, 2021, 856, 158096.	5.5	6
53	Evaluation of Soft X-ray Laser with In situ Imaging Device of High Spatial Resolution ZnO Scintillator. Japanese Journal of Applied Physics, 2011, 50, 122202.	1.5	5
54	Total internal reflection-based side-pumping configuration for terawatt ultraviolet amplifier and laser oscillator development. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	5

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55	Crystal growth of ultra-large MgF ₂ and LiCaAlF ₆ single crystals by a double-crucible Czochralski technique. <i>Journal of Crystal Growth</i> , 2021, 571, 126260.	1.5	5
56	Evaluation of Soft X-ray Laser with In situ Imaging Device of High Spatial Resolution ZnO Scintillator. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 122202.	1.5	5
57	Femtosecond PLD-grown YF ₃ nanoparticle thin films as improved filterless VUV photoconductive detectors. <i>Nanotechnology</i> , 2021, 32, 015501.	2.6	5
58	Vacuum ultraviolet photoluminescence of NaMgF ₃ :Sm and NaMgF ₃ :Sm,Ce: energy levels of the lanthanides in NaMgF ₃ :Ln compounds. <i>Methods and Applications in Fluorescence</i> , 2022, 10, 035006.	2.3	5
59	Vacuum Ultraviolet Fluorescence Spectroscopy of Nd ³⁺ :LaF ₃ Using Femtosecond Extreme Ultraviolet Free Electron Laser. <i>Applied Physics Express</i> , 2013, 6, 022401.	2.4	4
60	Spatial Resolution Evaluation of ZnO Scintillator as an In-situ Imaging Device in EUV Region. <i>IEEE Transactions on Nuclear Science</i> , 2014, 61, 462-466.	2.0	4
61	Investigation of holmium-doped zirconium oxide ceramic phosphor as an ultraviolet wavelength-discriminating laser beam viewer. <i>Optical Materials</i> , 2018, 75, 347-349.	3.6	4
62	Observation of birefringence in BBO crystals in the terahertz regime. <i>Journal of Crystal Growth</i> , 2009, 311, 895-898.	1.5	3
63	Systematic Study on Ce:LuLiF ₄ as a Fast Scintillator Using Storage Ring Free-Electron Lasers. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 122602.	1.5	3
64	Direct measurement of refractive index and dispersion of optical glass by dual-prism configuration with imaging spectrograph. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 096503.	1.5	3
65	Investigation of gamma-ray induced optical property changes in non-doped and Ce-doped lithium-rich oxide glass. <i>Radiation Physics and Chemistry</i> , 2021, 179, 109272.	2.8	3
66	Tunable vacuum ultraviolet cross-luminescence from KMgF under high pressure as potential fast-response scintillator. <i>Journal of Chemical Physics</i> , 2021, 154, 124707.	3.0	3
67	Tunable dual wavelength and narrow linewidth laser using a single solid-state gain medium in a double Littman resonator. <i>Optics Communications</i> , 2021, 496, 127131.	2.1	3
68	Fast-response, Low-Afterglow 4,4'-Bis[(2-butyloctyl)oxy]-1,1':4',1'':4'',1'''-quarterphenyl Dye-Based Liquid Scintillator for High-Contrast Detection of Laser Fusion-Generated Neutrons. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 080208.	1.5	3
69	Terahertz Emission from GaAs Films on Si(100) and Si(111) Substrates Grown by Molecular Beam Epitaxy. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2011, 32, 418-425.	2.2	2
70	Structural and optical properties of neodymium-doped lutetium fluoride thin films grown by pulsed laser deposition. <i>Optical Materials</i> , 2013, 35, 2329-2331.	3.6	2
71	Achromatic Deep Ultraviolet Lens Using Novel Optical Materials. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900480.	1.5	2
72	Fabrication of disk-shaped, deuterated resorcinol/formaldehyde foam target for laser-plasma experiments. <i>High Power Laser Science and Engineering</i> , 2021, 9, .	4.6	2

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73	Terahertz-Radiation Photoconductive Antenna in Sputtered Zinc Oxide Thin Film. Japanese Journal of Applied Physics, 2009, 48, 030209.	1.5	1
74	Investigation of the terahertz emission characteristics of MBE-grown GaAs-based nanostructures. Optical Materials, 2010, 32, 776-779.	3.6	1
75	Reduction of Thermal Dephasing by Tight Elliptical Focusing Perpendicular to Walk-off Plane Leading to Improved Fourth Harmonic Generation in $\text{I}^2\text{-BaB}_2\text{O}_4$. , 2010, , .		1
76	Multichannel down-scattered neutron detector for areal density measurement. EPJ Web of Conferences, 2013, 59, 13011.	0.3	1
77	Optical property of Ce^{3+} -doped lutetium lithium fluoride for the short-wavelength device application. Optical Materials, 2014, 36, 1963-1965.	3.6	1
78	Lasing properties of $\text{Ce}:\text{LiCaAlF}_6$ single crystal on effects of the distribution of Ce ion. , 2017, , .		1
79	Photodynamic Properties of CdSe/CdS Quantum Dots in Intracellular Media. Applied Sciences (Switzerland), 2020, 10, 3988.	2.5	1
80	Luminescence Properties of Nd^{3+} -Doped AlF_3 -Based Fluoride Glass in the Vacuum Ultraviolet Region. Physica Status Solidi (B): Basic Research, 2020, 257, 1900475.	1.5	1
81	Mid-infrared imaging through up-conversion luminescence in trivalent lanthanide ion-doped self-organizing optical fiber array crystal. Optics Letters, 2021, 46, 941.	3.3	1
82	Effect of doping distribution on the lasing performance of a cerium-doped lithium calcium aluminum fluoride ultraviolet laser crystal. Journal of Crystal Growth, 2021, 574, 126326.	1.5	1
83	Numerical investigation of the electronic and optical properties of LiLuF_4 vacuum ultraviolet material. Japanese Journal of Applied Physics, 2020, 59, 072001.	1.5	1
84	Studying the Nonlinear Optical Properties of Fluoride Laser Host Materials in the Ultraviolet Wavelength Region. Applied Sciences (Switzerland), 2022, 12, 372.	2.5	1
85	Terahertz - time domain spectroscopy of microstructured poly(methylmetacrylate) polymer fiber. , 2006, , .		0
86	Terahertz transmission spectroscopic analysis of mono- and di-substituted hydroxynaphthalenes in the 0.5- to 6- THz region using GaP THz wave generator. , 2006, , .		0
87	$\text{Nd}^{3+}:(\text{La}_{1-x}\text{Ba}_x)\text{F}_3$ as Vacuum Ultraviolet Scintillator and New Laser Material. , 2007, , .		0
88	Accurate modeling of inter- and intra-molecular interactions in 1,4-dihydroxynaphthalene in the 0.5-6 terahertz region. , 2007, , .		0
89	Numerical calculations of the Frequency Spectra of naphthalene and 1,4-dihydroxynaphthalene in the 0.5-to 6 terahertz region. , 2007, , .		0
90	$\text{Nd}^{3+}:(\text{La}_{1-x}\text{Ba}_x)\text{F}_3$ Grown via Micro-PD as New Vacuum Ultraviolet Scintillator and Potential Laser Material. , 2007, , .		0

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91	Terahertz birefringence of BaB_2O_4 (BBO) crystal. , 2008, , .		0
92	Enhanced terahertz emission from GaAs in MBE-grown InAs/GaAs quantum dot structures. , 2009, , .		0
93	Observation of Complex Optical Processes in ZnSe under Extreme Optical Excitation from a Kilojoule-Class Nd:Glass Laser. Japanese Journal of Applied Physics, 2010, 49, 062601.	1.5	0
94	Imaging of Radiation Accidents and Radioactive Contamination Using Scintillators. , 0, , .		0
95	Time-Resolved Pump and Probe Experiment for Wide-Gap Semiconductors Using Free Electron Laser and Synchronously-Operated Femtosecond Laser. Japanese Journal of Applied Physics, 2013, 52, 040203.	1.5	0
96	Development of time-of-flight neutron detector with fast-decay and low-afterglow scintillator for fast ignition experiment. EPJ Web of Conferences, 2013, 59, 13012.	0.3	0
97	Optical characterization of $\text{Nd}^{3+}:\text{LiCaAlF}_6$ in the vacuum ultraviolet region at low temperature. , 2017, , .		0
98	Ultrashort Pulse Generation in Ce:LiCAF Ultraviolet Laser. , 0, , .		0
99	Micro-pulling down method grown Ce:LiCAF as ultraviolet laser. , 2008, , .		0
100	Characterization of Ce:LuLiF ₄ as fast scintillator using storage ring free-electron lasers. , 2008, , .		0
101	Temperature Dependence of the Ultraviolet Luminescence of Pr ³⁺ -Doped 20Al(PO ₃) ₃ -80LiF Glass Scintillator. The Review of Laser Engineering, 2017, 45, 181.	0.0	0
102	Optimized Ce:LiCAF amplifier pumping configurations. , 2018, , .		0