

Marilou Cadatal-Raduban

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effect of Substrate and Thickness on the Photoconductivity of Nanoparticle Titanium Dioxide Thin Film Vacuum Ultraviolet Photoconductive Detector. <i>Nanomaterials</i> , 2022, 12, 10.	4.1	10
2	Studying the Nonlinear Optical Properties of Fluoride Laser Host Materials in the Ultraviolet Wavelength Region. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 372.	2.5	1
3	Vacuum ultraviolet photoluminescence of $\text{NaMgF}_3:\text{Sm}$ and $\text{NaMgF}_3:\text{Sm,Ce}$: energy levels of the lanthanides in $\text{NaMgF}_3:\text{Ln}$ compounds. <i>Methods and Applications in Fluorescence</i> , 2022, 10, 035006.	2.3	5
4	The influence of CeF_3 on radiation hardness and luminescence properties of $\text{Gd}_2\text{O}_3\text{-B}_2\text{O}_3$ glass scintillator. <i>Scientific Reports</i> , 2022, 12, .	3.3	8
5	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
6	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
7	Mid-infrared imaging through up-conversion luminescence in trivalent lanthanide ion-doped self-organizing optical fiber array crystal. <i>Optics Letters</i> , 2021, 46, 941.	3.3	1
8	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
9	Investigations on the electric-dipole allowed $4f^{25}d \rightarrow 4f^3$ broadband emission of Nd^{3+} -doped $20\text{Al}(\text{PO}_3)_3\text{-}80\text{LiF}$ glass for potential VUV scintillator application. <i>Journal of Alloys and Compounds</i> , 2021, 856, 158096.	5.5	6
10	Titanium dioxide thin films as vacuum ultraviolet photoconductive detectors with enhanced photoconductivity by gamma-ray irradiation. <i>Thin Solid Films</i> , 2021, 726, 138637.	1.8	8
11	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
12	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
13	Effect of doping distribution on the lasing performance of a cerium-doped lithium calcium aluminum fluoride ultraviolet laser crystal. <i>Journal of Crystal Growth</i> , 2021, 574, 126326.	1.5	1
14	Femtosecond PLD-grown YF_3 nanoparticle thin films as improved filterless VUV photoconductive detectors. <i>Nanotechnology</i> , 2021, 32, 015501.	2.6	5
15	Filterless tunable photoconductive ultraviolet radiation detector using CeF_3 thin films grown by pulsed laser deposition. <i>AIP Advances</i> , 2020, 10, .	1.3	10
16	Photodynamic Properties of CdSe/CdS Quantum Dots in Intracellular Media. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3988.	2.5	1
17	Luminescence Properties of Nd^{3+} -Doped AlF_3 -Based Fluoride Glass in the Vacuum Ultraviolet Region. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900475.	1.5	1
18	Achromatic Deep Ultraviolet Lens Using Novel Optical Materials. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900480.	1.5	2

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19	Investigation of cross luminescence in lanthanum fluoride as a potential fast-response scintillator. Japanese Journal of Applied Physics, 2020, 59, 052005.	1.5	6
20	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
21	Direct measurement of refractive index and dispersion of optical glass by dual-prism configuration with imaging spectrograph. Japanese Journal of Applied Physics, 2019, 58, 096503.	1.5	3
22	Spectroscopic investigation of praseodymium and cerium co-doped $20\text{Al}(\text{PO}_3)_3\text{-}80\text{LiF}$ glass for potential scintillator applications. Journal of Non-Crystalline Solids, 2019, 521, 119495.	3.1	13
23	Band gap engineering of $\text{Ca}_x\text{Sr}_{1-x}\text{F}_2$ and its application as filterless vacuum ultraviolet photodetectors with controllable spectral responses. Optical Materials, 2019, 88, 576-579.	3.6	7
24	Spectroscopic properties of Pr^{3+} -doped $20\text{Al}(\text{PO}_3)_3\text{-}80\text{LiF}$ glasses as potential scintillators for neutron detection. Journal of Luminescence, 2018, 193, 13-21.	3.1	21
25	Investigation of holmium-doped zirconium oxide ceramic phosphor as an ultraviolet wavelength-discriminating laser beam viewer. Optical Materials, 2018, 75, 347-349.	3.6	4
26	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
27	Direct band gap tunability of the LiYF_4 crystal through high-pressure applications. Computational Materials Science, 2018, 153, 431-437.	3.0	6
28	Tunable narrow linewidth picosecond pulses from a single grating gain-switched $\text{Ce}:\text{LiCAF}$ laser. Laser Physics, 2018, 28, 085802.	1.2	7
29	Optimized $\text{Ce}:\text{LiCAF}$ amplifier pumping configurations. , 2018, , .		0
30	High pressure band gap modification of LiCaAlF_6 . Applied Physics Letters, 2017, 110, .	3.3	15
31	First-principles calculations of electronic and optical properties of LiCaAlF_6 and LiSrAlF_6 crystals as VUV to UV solid-state laser materials. Optical Materials, 2017, 65, 15-20.	3.6	19
32	Lasing properties of $\text{Ce}:\text{LiCaAlF}_6$ single crystal on effects of the distribution of Ce ion. , 2017, , .		1
33	Optical characterization of $\text{Nd}^{3+}:\text{LiCaAlF}_6$ in the vacuum ultraviolet region at low temperature. , 2017, , .		0
34	Temperature Dependence of the Ultraviolet Luminescence of Pr^{3+} -Doped $20\text{Al}(\text{PO}_3)_3\text{-}80\text{LiF}$ Glass Scintillator. The Review of Laser Engineering, 2017, 45, 181.	0.0	0
35	Temperature-dependent evaluation of $\text{Nd}:\text{LiCAF}$ optical properties as potential vacuum ultraviolet laser material. Optical Materials, 2016, 58, 5-8.	3.6	8
36	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

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37	Significant blue-shift in photoluminescence excitation spectra of Nd ³⁺ :LaF ₃ potential laser medium at low-temperature. <i>Optical Materials</i> , 2015, 47, 462-464.	3.6	10
38	Perovskite fluoride crystals as light emitting materials in vacuum ultraviolet region. <i>Optical Materials</i> , 2014, 36, 769-772.	3.6	27
39	Optical property of Ce ³⁺ -doped lutetium lithium fluoride for the short-wavelength device application. <i>Optical Materials</i> , 2014, 36, 1963-1965.	3.6	1
40	Numerical simulation of ultraviolet picosecond Ce:LiCAF laser emission by optimized resonator transients. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 062701.	1.5	14
41	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
42	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
43	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
44	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
45	VUV fluorescence from Nd ³⁺ :LuLiF ₄ by two photon excitation using femtosecond laser. <i>Optical Materials</i> , 2013, 35, 2030-2033.	3.6	12
46	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
47	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
48	Optical properties of hydrothermal-method-grown ZnO crystal as EUV laser diagnostics material. <i>Journal of Crystal Growth</i> , 2013, 362, 264-267.	1.5	10
49	Time-Resolved Pump and Probe Experiment for Wide-Gap Semiconductors Using Free Electron Laser and Synchronously-Operated Femtosecond Laser. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 040203.	1.5	0
50	Electronic States of Trivalent Praseodymium Ion Doped in 20Al(PO ₃) ₃ •80LiF Glass. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 062402.	1.5	6
51	Development of time-of-flight neutron detector with fast-decay and low-afterglow scintillator for fast ignition experiment. <i>EPJ Web of Conferences</i> , 2013, 59, 13012.	0.3	0
52	Multichannel down-scattered neutron detector for areal density measurement. <i>EPJ Web of Conferences</i> , 2013, 59, 13011.	0.3	1
53	Excitonic luminescence in two-dimensionally confined layered sulfide oxides. <i>Applied Physics Letters</i> , 2012, 101, 191901.	3.3	10
54	Fabrication of In-Doped ZnO Scintillator Mounted on a Vacuum Flange. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 2290-2293.	2.0	11

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55	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
56	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
57	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
58	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
59	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
60	Terahertz Emission from GaAs Films on Si(100) and Si(111) Substrates Grown by Molecular Beam Epitaxy. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 418-425.	2.2	2
61	Intense terahertz emission from undoped GaAs/n-type GaAs and AlInAs/AlSb structures grown on Si substrates in the transmission-geometry excitation. Applied Physics B: Lasers and Optics, 2011, 103, 825-829.	2.2	8
62	Improved fourth harmonic generation in $\text{I}^2\text{-BaB}_2\text{O}_4$ by tight elliptical focusing perpendicular to walk-off plane. Journal of Crystal Growth, 2011, 318, 606-609.	1.5	17
63	Response-time-improved ZnO scintillator by impurity doping. Journal of Crystal Growth, 2011, 318, 788-790.	1.5	34
64	Micro-pulling-down-method-grown Ce:LiCAF crystal for side-pumped laser amplifier. Journal of Crystal Growth, 2011, 318, 737-740.	1.5	7
65	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
66	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
67	Response Time-Shortened Zinc Oxide Scintillator for Accurate Single-Shot Synchronization of Extreme Ultraviolet Free-Electron Laser and Short-Pulse Laser. Applied Physics Express, 2011, 4, 062701.	2.4	21
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. Japanese Journal of Applied Physics, 2011, 50, 080208.	1.5	3
69	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
70	Investigation of the terahertz emission characteristics of MBE-grown GaAs-based nanostructures. Optical Materials, 2010, 32, 776-779.	3.6	1
71	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
72	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

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73	Systematic Study on Ce:LuLiF ₄ as a Fast Scintillator Using Storage Ring Free-Electron Lasers. Japanese Journal of Applied Physics, 2010, 49, 122602.	1.5	3
74	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
75	Er:LiCAF as Potential Vacuum Ultraviolet Laser Material at 163 nm. IEEE Transactions on Nuclear Science, 2010, 57, 1204-1207.	2.0	24
76	$\text{Nd}^{3+}:\text{LaF}_3$ as a Step-Wise Excited Scintillator for Femtosecond Ultraviolet Pulses. IEEE Transactions on Nuclear Science, 2010, 57, 1208-1210.	2.0	25
77	Effects of Pulse Rate and Temperature on Nonlinear Absorption of Pulsed 262-nm Laser Light in $\text{Li}^2\text{-BaB}_2\text{O}_4$. Japanese Journal of Applied Physics, 2010, 49, 080211.	1.5	28
78	Enhanced terahertz emission from GaAs in MBE-grown InAs/GaAs quantum dot structures. , 2009, , .		0
79	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
80	Terahertz-Radiation Photoconductive Antenna in Sputtered Zinc Oxide Thin Film. Japanese Journal of Applied Physics, 2009, 48, 030209.	1.5	1
81	Development of Vacuum Ultraviolet Streak Camera System for the Evaluation of Vacuum Ultraviolet Emitting Materials. Japanese Journal of Applied Physics, 2009, 48, 096503.	1.5	21
82	Reduction of Nonlinear Absorption in $\text{Li}_2\text{B}_4\text{O}_7$ by Temperature- and Repetition Rate-Control. Japanese Journal of Applied Physics, 2009, 48, 112502.	1.5	14
83	Vacuum ultraviolet luminescence from a micro-pulling-down method grown $\text{Nd}^{3+}:(\text{La}_{0.9},\text{Ba}_{0.1})\text{F}_2$. Journal of Luminescence, 2009, 129, 1629-1631.	3.1	28
84	Observation of birefringence in BBO crystals in the terahertz regime. Journal of Crystal Growth, 2009, 311, 895-898.	1.5	3
85	Strong enhancement of terahertz emission from GaAs in InAs/GaAs quantum dot structures. Applied Physics Letters, 2009, 94, 232104.	3.3	24
86	Vacuum ultraviolet optical properties of a micro-pulling-down-method grown $\text{Nd}^{3+}:(\text{La}_{0.9},\text{Ba}_{0.1})\text{F}_2$. Journal of the Optical Society of America B: Optical Physics, 2008, 25, B27.	2.1	18
87	Laser Quality $\text{Ce}^{3+}:\text{LiCaAlF}_6$ Grown by Micro-Pulling-Down Method. Japanese Journal of Applied Physics, 2008, 47, 5605.	1.5	22
88	Birefringence of $\text{Li}^2\text{-BaB}_2\text{O}_4$ crystal in the terahertz region for parametric device design. Applied Physics Letters, 2008, 92, .	3.3	19
89	Terahertz birefringence of $\text{Li}^2\text{-BaB}_2\text{O}_4$ (BBO) crystal. , 2008, , .		0
90	Micro-pulling down method grown Ce:LiCAF as ultraviolet laser. , 2008, , .		0

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91	Characterization of Ce:LuLiF ₄ as fast scintillator using storage ring free-electron lasers. , 2008, , .		0
92	Nd ³⁺ :(La _{1-x} Ba _x)F _{3-x} Grown by Micro-Pulling Down Method as Vacuum Ultraviolet Scintillator and Potential Laser Material. Japanese Journal of Applied Physics, 2007, 46, L985.	1.5	23
93	Nd ³⁺ :(La _{1-x} ,Ba _x)F _{3-x} as Vacuum Ultraviolet Scintillator and New Laser Material. , 2007, , .		0
94	Accurate modeling of inter- and intra-molecular interactions in 1,4-dihydroxynaphthalene in the 0.5-6 terahertz region. , 2007, , .		0
95	Numerical calculations of the Frequency Spectra of naphthalene and 1,4-dihydroxynaphthalene in the 0.5-to 6 terahertz region. , 2007, , .		0
96	Nd ³⁺ :(La _{1-x} , Ba _x)F _{3-x} Grown via Micro-PD as New Vacuum Ultraviolet Scintillator and Potential Laser Material. , 2007, , .		0
97	Proposed design principle of fluoride-based materials for deep ultraviolet light emitting devices. Optical Materials, 2007, 30, 15-17.	3.6	45
98	Terahertz - time domain spectroscopy of microstructured poly(methylmetacrylate) polymer fiber. , 2006, , .		0
99	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
100	Pulsed full-color digital holography with a hydrogen Raman shifter. Applied Optics, 2004, 43, 2267.	2.1	10
101	Imaging of Radiation Accidents and Radioactive Contamination Using Scintillators. , 0, , .		0
102	Ultrashort Pulse Generation in Ce:LiCAF Ultraviolet Laser. , 0, , .		0