

Tomoharu Nakazato

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/291489/publications.pdf>

Version: 2024-02-01

70
papers

788
citations

394421

19
h-index

580821

25
g-index

70
all docs

70
docs citations

70
times ranked

528
citing authors

#	ARTICLE	IF	CITATIONS
1	Fully Automated Data Acquisition for Laser Production Cyber-Physical System. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-8.	2.9	7
2	149.8 nm, the shortest wavelength generated by phase matching in nonlinear crystals. Proceedings of SPIE, 2017, , .	0.8	8
3	Two-photon absorption of KBe ₂ BO ₃ F ₂ and CsLiB ₆ O ₁₀ at 193 nm. Japanese Journal of Applied Physics, 2017, 56, 122601.	1.5	5
4	Amplification of DUV solid-state laser pulse using ArF laser. , 2017, , .		2
5	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
6	Phase-matched frequency conversion below 150 nm in KBe ₂ BO ₃ F ₂ . Optics Express, 2016, 24, 17149.	3.4	26
7	Development of high-power, 6 kHz, single-mode Ti:sapphire laser at 904 nm for generating 193 nm light. Japanese Journal of Applied Physics, 2015, 54, 042702.	1.5	3
8	Perovskite fluoride crystals as light emitting materials in vacuum ultraviolet region. Optical Materials, 2014, 36, 769-772.	3.6	27
9	Numerical simulation of ultraviolet picosecond Ce:LiCAF laser emission by optimized resonator transients. Japanese Journal of Applied Physics, 2014, 53, 062701.	1.5	14
10	Spatial Resolution Evaluation of ZnO Scintillator as an In-situ Imaging Device in EUV Region. IEEE Transactions on Nuclear Science, 2014, 61, 462-466.	2.0	4
11	High spatial resolution ZnO scintillator for an in situ imaging device in EUV region. Optical Materials, 2014, 36, 2012-2015.	3.6	9
12	Luminescence properties of Nd ³⁺ and Er ³⁺ doped glasses in the VUV region. Optical Materials, 2013, 35, 1962-1964.	3.6	19
13	Vacuum Ultraviolet Fluorescence Spectroscopy of Nd ³⁺ :LaF ₃ Using Femtosecond Extreme Ultraviolet Free Electron Laser. Applied Physics Express, 2013, 6, 022401.	2.4	4
14	VUV fluorescence from Nd ³⁺ :LuLiF ₄ by two photon excitation using femtosecond laser. Optical Materials, 2013, 35, 2030-2033.	3.6	12
15	Micro-pulling down method-grown Er ³⁺ :LiCaAlF ₆ as prospective vacuum ultraviolet laser material. Journal of Crystal Growth, 2013, 362, 167-169.	1.5	23
16	Optical properties of hydrothermal-method-grown ZnO crystal as EUV laser diagnostics material. Journal of Crystal Growth, 2013, 362, 264-267.	1.5	10
17	Present status of fast ignition realization experiment and inertial fusion energy development. Nuclear Fusion, 2013, 53, 104021.	3.5	27
18	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

#	ARTICLE	IF	CITATIONS
19	Electronic States of Trivalent Praseodymium Ion Doped in 20Al(PO ₃) ₃ â€“80LiF Glass. Japanese Journal of Applied Physics, 2013, 52, 062402.	1.5	6
20	Excitonic luminescence in two-dimensionally confined layered sulfide oxides. Applied Physics Letters, 2012, 101, 191901.	3.3	10
21	Fabrication of In-Doped ZnO Scintillator Mounted on a Vacuum Flange. IEEE Transactions on Nuclear Science, 2012, 59, 2290-2293.	2.0	11
22	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
23	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
24	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
25	X-Ray Imaging by Using ZnO Crystal. The Review of Laser Engineering, 2011, 39, 193-196.	0.0	0
26	Development of Glass Scintillator Material for Measurement of Scattered Neutron Originated from Inertial Confinement Fusion. The Review of Laser Engineering, 2011, 39, 312-318.	0.0	0
27	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
28	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
29	Response-time-improved ZnO scintillator by impurity doping. Journal of Crystal Growth, 2011, 318, 788-790.	1.5	34
30	Micro-pulling-down-method-grown Ce:LiCAF crystal for side-pumped laser amplifier. Journal of Crystal Growth, 2011, 318, 737-740.	1.5	7
31	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
32	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
33	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
34	Differential cross sections for the dissociative single and double excitations resulting in H(2p) formation in electronâ€“CH ₄ collisions at 80 eV incident electron energy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 155208.	1.5	9
35	ZnO Scintillator Improved Temporal Response for XFEL Timing Observation. , 2010, , .		0
36	Custom-designed scintillator for laser fusion diagnostics â€“ Pr ³⁺ -doped fluoro-phosphate lithium glass scintillator. Optical Materials, 2010, 32, 1393-1396.	3.6	11

#	ARTICLE	IF	CITATIONS
37	Response-time improved hydrothermal-method-grown ZnO scintillator for XFEL timing-observation. Optical Materials, 2010, 32, 1305-1308.	3.6	13
38	Investigation of the terahertz emission characteristics of MBE-grown GaAs-based nanostructures. Optical Materials, 2010, 32, 776-779.	3.6	1
39	Angular distribution of atoms emitted from a SrZrO ₃ target by laser ablation under different laser fluences and oxygen pressures. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 400-406.	2.1	1
40	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
41	Response-time improved hydrothermal-method-grown ZnO scintillator for soft x-ray free-electron laser timing-observation. Review of Scientific Instruments, 2010, 81, 033102.	1.3	25
42	Down-scattered neutron imaging detector for areal density measurement of inertial confinement fusion. Review of Scientific Instruments, 2010, 81, 10D303.	1.3	7
43	Pr doped Li-6 glass scintillator for Inertial Confinement Fusion neutron diagnostics. , 2010, , .		0
44	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
45	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
46	Er:LiCAF as Potential Vacuum Ultraviolet Laser Material at 163 nm. IEEE Transactions on Nuclear Science, 2010, 57, 1204-1207.	2.0	24
47	Custom-Designed Fast-Response Praseodymium-Doped Lithium 6 Fluoro-Oxide Glass Scintillator With Enhanced Cross-Section for Scattered Neutron Originated From Inertial Confinement Fusion. IEEE Transactions on Nuclear Science, 2010, 57, 1426-1429.	2.0	18
48	$\text{Nd}^{3+}:\text{LaF}_3$ as a Step-Wise Excited Scintillator for Femtosecond Ultraviolet Pulses. IEEE Transactions on Nuclear Science, 2010, 57, 1208-1210.	2.0	25
49	Fast Fe-doped ZnO scintillator for accurate synchronization of femtosecond pulses from XFEL and conventional ultrafast laser. , 2010, , .		0
50	Er:LiCAF as Potential Vacuum Ultraviolet Laser Material at 163 nm. , 2009, , .		0
51	Enhanced terahertz emission from GaAs in MBE-grown InAs/GaAs quantum dot structures. , 2009, , .		0
52	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
53	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
54	Plasma physics and laser development for the Fast-Ignition Realization Experiment (FIREX) Project. Nuclear Fusion, 2009, 49, 104024.	3.5	45

#	ARTICLE	IF	CITATIONS
55	Vacuum ultraviolet luminescence from a micro-pulling-down method grown Nd ³⁺ :(La _{0.9} Ba _{0.1})F ₂ . Journal of Luminescence, 2009, 129, 1629-1631.	3.1	28
56	Hydrothermal-method-grown ZnO single crystal as fast EUV scintillator for future lithography. Journal of Crystal Growth, 2009, 311, 875-877.	1.5	26
57	Observation of birefringence in BBO crystals in the terahertz regime. Journal of Crystal Growth, 2009, 311, 895-898.	1.5	3
58	Strong enhancement of terahertz emission from GaAs in InAs/GaAs quantum dot structures. Applied Physics Letters, 2009, 94, 232104.	3.3	24
59	Pr ³⁺ -doped fluoro-oxide lithium glass as scintillator for nuclear fusion diagnostics. Review of Scientific Instruments, 2009, 80, 113504.	1.3	41
60	Differential cross sections for the double excitation in electron-CH ₄ collisions as a function of electron energy-loss and scattering angle. Journal of Physics: Conference Series, 2009, 194, 052023.	0.4	1
61	Three-photon Lasing from ZnSe Excited by a kilojoule-class Nd:Glass Laser. , 2009, , .		0
62	Temperature dependence of scintillation properties for a hydrothermal-method-grown zinc oxide crystal evaluated by nickel-like silver laser pulses. Journal of the Optical Society of America B: Optical Physics, 2008, 25, B118.	2.1	27
63	Laser Quality Ce ³⁺ :LiCaAlF ₆ Grown by Micro-Pulling-Down Method. Japanese Journal of Applied Physics, 2008, 47, 5605.	1.5	22
64	Doubly excited states of ammonia produced by photon and electron interactions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 195204.	1.5	13
65	Birefringence of λ^2 -BaB ₂ O ₄ crystal in the terahertz region for parametric device design. Applied Physics Letters, 2008, 92, .	3.3	19
66	Terahertz birefringence of λ^2 -BaB ₂ O ₄ (BBO) crystal. , 2008, , .		0
67	UV fluorescence of hydrothermal method grown ZnO for fast EUV scintillators. , 2008, , .		0
68	The electron-energy-loss spectra of methane tagged with Lyman- $\hat{\pm}$ photons in the range of doubly excited states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 2459-2470.	1.5	9
69	Doubly excited states of methane produced by photon and electron interactions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 565-578.	1.5	21
70	Imaging of Radiation Accidents and Radioactive Contamination Using Scintillators. , 0, , .		0