

Yasunobu Arikawa

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

119
papers

911
citations

16
h-index

25
g-index

131
ext. papers

1,155
ext. citations

2.1
avg, IF

3.13
L-index

#	Paper	IF	Citations
119	In-Target ProtonBoron Nuclear Fusion Using a PW-Class Laser. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1444	2.6	4
118	Laser-driven neutron source and nuclear resonance absorption imaging at ILE, Osaka University: review.. <i>Applied Optics</i> , 2022 , 61, 2398-2405	1.7	1
117	Non-destructive inspection of water or high-pressure hydrogen gas in metal pipes by the flash of neutrons and x rays generated by laser. <i>AIP Advances</i> , 2022 , 12, 045220	1.5	0
116	Super-strong magnetic field-dominated ion beam dynamics in focusing plasma devices.. <i>Scientific Reports</i> , 2022 , 12, 6876	4.9	0
115	Preliminary Cryogenic Layering by the Infrared Heating Method Modified with Cone Temperature Control for the Polystyrene Shell FIREX Target. <i>Plasma and Fusion Research</i> , 2021 , 16, 1404099-1404099 ^{0.5}		
114	Enhancement of Ablative Rayleigh-Taylor Instability Growth by Thermal Conduction Suppression in a Magnetic Field. <i>Physical Review Letters</i> , 2021 , 127, 165001	7.4	2
113	Energetic α particle sources produced through proton-boron reactions by high-energy high-intensity laser beams. <i>Physical Review E</i> , 2021 , 103, 053202	2.4	7
112	Dosimetric calibration of GafChromic HD-V2, MD-V3, and EBT3 films for dose ranges up to 100 kGy. <i>Review of Scientific Instruments</i> , 2021 , 92, 063301	1.7	3
111	Hot Electron and Ion Spectra in Axial and Transverse Laser Irradiation in the GXII-LFEX Direct Fast Ignition Experiment. <i>Plasma and Fusion Research</i> , 2021 , 16, 2404076-2404076	0.5	0
110	Direct evaluation of high neutron density environment using (n,2n) reaction induced by laser-driven neutron source. <i>Physical Review C</i> , 2021 , 104,	2.7	5
109	Longitudinal and transverse spatial beam profile measurement of relativistic electron bunch by electro-optic sampling. <i>Applied Physics Express</i> , 2021 , 14, 026503	2.4	1
108	Investigation of plasma states formed under the interaction of high-power laser pulses with wire-shape AlCu target. <i>Journal of Physics: Conference Series</i> , 2021 , 1787, 012028	0.3	
107	Calibration of imaging plates sensitivity to high energy photons and ions for laser-plasma interaction sources. <i>Journal of Instrumentation</i> , 2021 , 16, T02005-T02005	1	5
106	Single shot radiography by a bright source of laser-driven thermal neutrons and x-rays. <i>Applied Physics Express</i> , 2021 , 14, 106001	2.4	4
105	Nanosecond alpha-ray response and gamma-ray radiation resistance of a hydrothermal-grown bulk ZnO single crystal. <i>Journal of Crystal Growth</i> , 2021 , 570, 126240	1.6	
104	Development of Tritium Tracer Doped Liquid Fuel Target for Inertial Confinement Fusion at the Gekko XII-LFEX Facility. <i>Fusion Science and Technology</i> , 2020 , 76, 464-470	1.1	2
103	The conceptual design of 1-ps time resolution neutron detector for fusion reaction history measurement at OMEGA and the National Ignition Facility. <i>Review of Scientific Instruments</i> , 2020 , 91, 063304	1.7	3

102	Enhancement of ion energy and flux by the influence of magnetic reconnection in foam targets. <i>High Energy Density Physics</i> , 2020 , 36, 100840	1.2	2
101	The avalanche image intensifier panel for fast neutron radiography by using laser-driven neutron sources. <i>High Energy Density Physics</i> , 2020 , 36, 100833	1.2	3
100	Petapascal Pressure Driven by Fast Isochoric Heating with a Multipicosecond Intense Laser Pulse. <i>Physical Review Letters</i> , 2020 , 124, 035001	7.4	13
99	Monte Carlo particle collision model for qualitative analysis of neutron energy spectra from anisotropic inertial confinement fusion. <i>High Energy Density Physics</i> , 2020 , 36, 100803	1.2	2
98	Development of single-shot frequency-resolved optical gating for characterizing the instantaneous intensity and phase of LFEX laser pulses. <i>High Energy Density Physics</i> , 2020 , 37, 100855	1.2	
97	Proof-of-principle experiment for laser-driven cold neutron source. <i>Scientific Reports</i> , 2020 , 10, 20157	4.9	7
96	Flash X-ray backlight technique using a Fresnel phase zone plate for measuring interfacial instability. <i>High Energy Density Physics</i> , 2020 , 36, 100837	1.2	4
95	Relativistic magnetic reconnection in laser laboratory for testing an emission mechanism of hard-state black hole system. <i>Physical Review E</i> , 2020 , 102, 033202	2.4	6
94	Generation of μ Particle Beams With a Multi-kJ, Peta-Watt Class Laser System. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	11
93	Verification of fast heating of core plasmas produced by counter-illumination of implosion lasers. <i>High Energy Density Physics</i> , 2020 , 37, 100890	1.2	0
92	Enhanced relativistic electron beams intensity with self-generated resistive magnetic field. <i>High Energy Density Physics</i> , 2020 , 36, 100773	1.2	2
91	Electromagnetic field growth triggering super-ponderomotive electron acceleration during multi-picosecond laser-plasma interaction. <i>Communications Physics</i> , 2019 , 2,	5.4	8
90	Enhancing laser beam performance by interfering intense laser beamlets. <i>Nature Communications</i> , 2019 , 10, 2995	17.4	11
89	Efficient Fast Heating of Dense Core Plasma by Laser-Driven Strong Magnetic Field. <i>The Review of Laser Engineering</i> , 2019 , 47, 536	0	
88	Simple Analysis of the Laser-to-Core Energy Coupling Efficiency with Magnetized Fast Isochoric Laser Heating. <i>Plasma and Fusion Research</i> , 2019 , 14, 3404138-3404138	0.5	1
87	Direct observation of imploded core heating via fast electrons with super-penetration scheme. <i>Nature Communications</i> , 2019 , 10, 5614	17.4	4
86	Efficient and Repetitive Neutron Generation by Double-Laser-Pulse Driven Photonuclear Reaction. <i>Plasma and Fusion Research</i> , 2018 , 13, 2404009-2404009	0.5	2
85	Whispering Gallery Effect in Relativistic Optics. <i>JETP Letters</i> , 2018 , 107, 351-354	1.2	4

84	3 μ 08 D-D Neutron Generation by High-Intensity Laser Irradiation onto the Inner Surface of Spherical CD Shells. <i>Plasma and Fusion Research</i> , 2018 , 13, 2401028-2401028	0.5	
83	Recent Development of Neutron Detectors for Pulsed Compact Neutron Sources. <i>The Review of Laser Engineering</i> , 2018 , 46, 634	0	
82	Whispering gallery effect in relativistic optics, "■■■■" ■■. <i>Journal of Experimental and Theoretical Physics Letters</i> , 2018 , 366-367	1.3	
81	A large-aperture high-sensitivity avalanche image intensifier panel. <i>Review of Scientific Instruments</i> , 2018 , 89, 101128	1.7	2
80	Magnetized fast isochoric laser heating for efficient creation of ultra-high-energy-density states. <i>Nature Communications</i> , 2018 , 9, 3937	17.4	53
79	Numerical analysis of pulsed magnetic field diffusion dynamics in gold cone target. <i>Physics of Plasmas</i> , 2018 , 25, 094505	2.1	7
78	A multichannel gated neutron detector with reduced afterpulse for low-yield neutron measurements in intense hard X-ray backgrounds. <i>Review of Scientific Instruments</i> , 2018 , 89, 101114	1.7	1
77	Boosting laser-ion acceleration with multi-picosecond pulses. <i>Scientific Reports</i> , 2017 , 7, 42451	4.9	51
76	Large aperture fast neutron imaging detector with 10-ns time resolution 2017 ,		2
75	Improvement in the heating efficiency of fast ignition inertial confinement fusion through suppression of the preformed plasma. <i>Nuclear Fusion</i> , 2017 , 57, 066022	3.3	3
74	Plasma mirror implementation on LFEX laser for ion and fast electron fast ignition. <i>Nuclear Fusion</i> , 2017 , 57, 126018	3.3	4
73	Magnetohydrodynamics of laser-produced high-energy-density plasma in a strong external magnetic field. <i>Physical Review E</i> , 2017 , 95, 053204	2.4	21
72	Assessing infrared intensity using the evaporation rate of liquid hydrogen inside a cryogenic integrating sphere for laser fusion targets. <i>Review of Scientific Instruments</i> , 2017 , 88, 075103	1.7	2
71	Integrated simulation of magnetic-field-assist fast ignition laser fusion. <i>Plasma Physics and Controlled Fusion</i> , 2017 , 59, 014045	2	15
70	Production of intense, pulsed, and point-like neutron source from deuterated plastic cavity by mono-directional kilo-joule laser irradiation. <i>Applied Physics Letters</i> , 2017 , 111, 233506	3.4	8
69	Evaluation of laser-driven ion energies for fusion fast-ignition research. <i>Progress of Theoretical and Experimental Physics</i> , 2017 , 2017,	5.4	2
68	Confirmation of hot electron preheat with a Cu foam sphere on GEKKO-LFEX laser facility. <i>Physics of Plasmas</i> , 2017 , 24, 112709	2.1	1
67	Direct heating of a laser-imploded core using ultraintense laser LFEX. <i>Nuclear Fusion</i> , 2017 , 57, 076030	3.3	0

66	Ultra-high-contrast kilojoule-class petawatt LFEX laser using a plasma mirror 2016 , 55, 6850		25
65	The diagnostics of the energy coupling efficiency in the Fast Ignition integrated experiment. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012004	0.3	
64	Quantitative K α line spectroscopy for energy transport in ultra-intense laser plasma interaction. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012132	0.3	
63	Development of Compton X-ray spectrometer for high energy resolution single-shot high-flux hard X-ray spectroscopy. <i>Review of Scientific Instruments</i> , 2016 , 87, 043502	1.7	8
62	Electron transport estimated from electron spectra using electron spectrometer in LFEX laser target experiments. <i>Journal of Physics: Conference Series</i> , 2016 , 717, 012043	0.3	0
61	Progress Towards a Laser Produced Relativistic Electron-Positron Pair Plasma. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012010	0.3	3
60	Hot electron spectra on advanced targets in FIREX. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012083		
59	Progress toward a unified kJ-machine CANDY. <i>Journal of Physics: Conference Series</i> , 2016 , 688, 012049	0.3	1
58	Energy distribution of fast electrons accelerated by high intensity laser pulse depending on laser pulse duration. <i>Journal of Physics: Conference Series</i> , 2016 , 717, 012102	0.3	5
57	Direct heating of compressed core by ultra-intense laser. <i>Journal of Physics: Conference Series</i> , 2016 , 717, 012055	0.3	1
56	Development of 4.5 keV monochromatic X-ray radiography using the high-energy, picosecond LFEX laser. <i>Journal of Physics: Conference Series</i> , 2016 , 717, 012112	0.3	4
55	Fast ignition realization experiment with high-contrast kilo-joule peta-watt LFEX laser and strong external magnetic field. <i>Physics of Plasmas</i> , 2016 , 23, 056308	2.1	44
54	Flash K α radiography of laser-driven solid sphere compression for fast ignition. <i>Applied Physics Letters</i> , 2016 , 108, 254101	3.4	22
53	Direct measurement of kilo-tesla level magnetic field generated with laser-driven capacitor-coil target by proton deflectometry. <i>Applied Physics Letters</i> , 2016 , 108, 091104	3.4	72
52	Tritium-doping enhancement of polystyrene by ultraviolet laser and hydrogen plasma irradiation for laser fusion experiments. <i>Fusion Engineering and Design</i> , 2016 , 112, 269-273	1.7	
51	Quantitative K α line spectroscopy for energy transport in fast ignition plasma driven with LFEX PW laser. <i>High Energy Density Physics</i> , 2015 , 15, 78-81	1.2	1
50	Direct heating of a laser-imploded core by ultra-intense laser-driven ions. <i>Physical Review Letters</i> , 2015 , 114, 195002	7.4	19
49	Heating efficiency evaluation with mimicking plasma conditions of integrated fast-ignition experiment. <i>Physical Review E</i> , 2015 , 91, 063102	2.4	23

48	Approach to the study of fast electron transport in cylindrically imploded targets. <i>Laser and Particle Beams</i> , 2015 , 33, 525-534	0.9	3
47	High-Intensity Neutron Generation via Laser-Driven Photonuclear Reaction. <i>Plasma and Fusion Research</i> , 2015 , 10, 2404003-2404003	0.5	13
46	Response measurement of single-crystal chemical vapor deposition diamond radiation detector for intense X-rays aiming at neutron bang-time and neutron burn-history measurement on an inertial confinement fusion with fast ignition. <i>Review of Scientific Instruments</i> , 2015 , 86, 053503	1.7	0
45	Gamma-ray irradiation effects on the optical properties of bulk ZnO single crystals. <i>Applied Physics Express</i> , 2015 , 8, 061101	2.4	6
44	Neutron Generation by Laser-Driven Photonuclear Reaction. <i>The Review of Laser Engineering</i> , 2015 , 43, 98	0	
43	Development of the High Energy Bremsstrahlung X-Ray Spectrometer by Using (π n) Reaction. <i>Plasma and Fusion Research</i> , 2014 , 9, 4404112-4404112	0.5	
42	The Development of the Neutron Detector for the Fast Ignition Experiment by using LFEX and Gekko XII Facility. <i>Plasma and Fusion Research</i> , 2014 , 9, 4404105-4404105	0.5	1
41	The Neutron Imaging Diagnostics and Reconstructing Technique for Fast Ignition. <i>Plasma and Fusion Research</i> , 2014 , 9, 4404108-4404108	0.5	
40	Development of Multichannel Time-of-Flight Neutron Spectrometer for the Fast Ignition Experiment. <i>Plasma and Fusion Research</i> , 2014 , 9, 4404110-4404110	0.5	3
39	Development of Compton X-Ray Spectrometer for Fast Ignition Experiment. <i>Plasma and Fusion Research</i> , 2014 , 9, 4405109-4405109	0.5	4
38	Energy Transportation by MeV Hot Electrons in Fast Ignition Plasma Driven with LFEX PW Laser. <i>Plasma and Fusion Research</i> , 2014 , 9, 1404118-1404118	0.5	
37	Hot electron spectra in hole-cone shell targets and a new proposal of the target for fast ignition in laser fusion. <i>Physica Scripta</i> , 2014 , T161, 014025	2.6	2
36	Development of multichannel low-energy neutron spectrometer. <i>Review of Scientific Instruments</i> , 2014 , 85, 11E125	1.7	3
35	An electron/ion spectrometer with the ability of low energy electron measurement for fast ignition experiments. <i>Review of Scientific Instruments</i> , 2014 , 85, 11E113	1.7	3
34	Accuracy evaluation of a Compton X-ray spectrometer with bremsstrahlung X-rays generated by a 6 MeV electron bunch. <i>Review of Scientific Instruments</i> , 2014 , 85, 11D634	1.7	5
33	Characterizing a fast-response, low-afterglow liquid scintillator for neutron time-of-flight diagnostics in fast ignition experiments. <i>Review of Scientific Instruments</i> , 2014 , 85, 11E126	1.7	7
32	Photonuclear reaction based high-energy x-ray spectrometer to cover from 2 MeV to 20 MeV. <i>Review of Scientific Instruments</i> , 2014 , 85, 11D629	1.7	5
31	Luminescence properties of Nd ³⁺ and Er ³⁺ doped glasses in the VUV region. <i>Optical Materials</i> , 2013 , 35, 1962-1964	3.3	16

30	Implosion and heating experiments of fast ignition targets by Gekko-XII and LFEX lasers. <i>EPJ Web of Conferences</i> , 2013 , 59, 01008	0.3	2
29	Quantitative measurement of hard X-ray spectra from laser-driven fast ignition plasma. <i>High Energy Density Physics</i> , 2013 , 9, 435-438	1.2	5
28	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	1.6	17
27	New insights into the laser produced electron-positron pairs. <i>New Journal of Physics</i> , 2013 , 15, 065010	2.9	22
26	Electronic States of Trivalent Praseodymium Ion Doped in 20Al(PO ₃) ₃ 80LiF Glass. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 062402	1.4	5
25	Hot Electron Spectra in Plain, Cone and Integrated Targets for FIREX-I using Electron Spectrometer. <i>Plasma and Fusion Research</i> , 2013 , 8, 2404125-2404125	0.5	2
24	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	
23	Multichannel down-scattered neutron detector for areal density measurement. <i>EPJ Web of Conferences</i> , 2013 , 59, 13011	0.3	1
22	High-energy-density plasmas generation on GEKKO-LFEX laser facility for fast-ignition laser fusion studies and laboratory astrophysics. <i>Plasma Physics and Controlled Fusion</i> , 2012 , 54, 124042	2	35
21	Quantitative measurement of hard x-ray spectra for high intensity laser produced plasma. <i>Review of Scientific Instruments</i> , 2012 , 83, 053502	1.7	8
20	Integrated experiments of fast ignition targets by Gekko-XII and LFEX lasers. <i>High Energy Density Physics</i> , 2012 , 8, 227-230	1.2	18
19	The photonuclear neutron and gamma-ray backgrounds in the fast ignition experiment. <i>Review of Scientific Instruments</i> , 2012 , 83, 10D909	1.7	11
18	Fast-Response and Low-Afterglow Cerium-Doped Lithium 6 Fluoro-Oxide Glass Scintillator for Laser Fusion-Originated Down-Scattered Neutron Detection. <i>IEEE Transactions on Nuclear Science</i> , 2012 , 59, 2256-2259	1.7	5
17	Fast ignition integrated experiments with Gekko and LFEX lasers. <i>Plasma Physics and Controlled Fusion</i> , 2011 , 53, 124029	2	46
16	Optical and scintillation properties of Pr-doped Li-glass for neutron detection in inertial confinement fusion process. <i>Journal of Non-Crystalline Solids</i> , 2011 , 357, 910-914	3.9	14
15	Optical properties and structure of Pr ³⁺ -doped Al(PO ₃) ₃ LiF glasses as scattered neutron scintillator for nuclear fusion diagnostics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011 , 18, 112006	0.4	4
14	Development of Glass Scintillator Material for Measurement of Scattered Neutron Originated from Inertial Confinement Fusion. <i>The Review of Laser Engineering</i> , 2011 , 39, 312-318	0	
13	Present states and future prospect of fast ignition realization experiment (FIREX) with Gekko and LFEX Lasers at ILE. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 653, 84-88	1.2	10

12	Fast-response, Low-Afterglow 4,4'-Bis[(2-butyloctyl)oxy]-1,1'-[4,4'-oxydiphenyl]-4,4'-di-tert-butyl-2,2'-biphenyl Dye-Based Liquid Scintillator for High-Contrast Detection of Laser Fusion-Generated Neutrons. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 080208	1.4	7
11	Fast-response, Low-Afterglow 4,4'-Bis[(2-butyloctyl)oxy]-1,1'-[4,4'-oxydiphenyl]-4,4'-di-tert-butyl-2,2'-biphenyl Dye-Based Liquid Scintillator for High-Contrast Detection of Laser Fusion-Generated Neutrons. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 080208	1.4	3
10	Note: Light output enhanced fast response and low afterglow ⁶ Li glass scintillator as potential down-scattered neutron diagnostics for inertial confinement fusion. <i>Review of Scientific Instruments</i> , 2010 , 81, 106105	1.7	10
9	Down-scattered neutron imaging detector for areal density measurement of inertial confinement fusion. <i>Review of Scientific Instruments</i> , 2010 , 81, 10D303	1.7	7
8	Acceleration to high velocities and heating by impact using Nike KrF laser). <i>Physics of Plasmas</i> , 2010 , 17, 056317	2.1	31
7	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	1.4	2
6	Custom-Designed Fast-Response Praseodymium-Doped Lithium 6 Fluoro-Oxide Glass Scintillator With Enhanced Cross-Section for Scattered Neutron Originated From Inertial Confinement Fusion. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 1426-1429	1.7	13
5	A scattered-neutron detector for areal density measurement. <i>Journal of Physics: Conference Series</i> , 2010 , 244, 032041	0.3	1
4	Custom-designed scintillator for laser fusion diagnostics [Pr ³⁺ -doped fluoro-phosphate lithium glass scintillator. <i>Optical Materials</i> , 2010 , 32, 1393-1396	3.3	7
3	Pr ³⁺ -doped fluoro-oxide lithium glass as scintillator for nuclear fusion diagnostics. <i>Review of Scientific Instruments</i> , 2009 , 80, 113504	1.7	32
2	Development of TOF neutron spectrometer for the measurement of degenerated plasma in fast ignition experiment. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 032079	0.3	3
1	Fast response neutron scintillation detector for FIRE-X. <i>Journal of Physics: Conference Series</i> , 2008 , 112, 032082	0.3	1