

Takatsugu Ishikawa

List of Publications by Year in descending order

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136
papers

3,297
citations

201674

27
h-index

149698

56
g-index

137
all docs

137
docs citations

137
times ranked

1522
citing authors

#	ARTICLE	IF	CITATIONS
19	Development of high intensity laser-electron photon beams up to 2.9 GeV at the SPring-8 LEPS beamline. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 737, 184-194.	1.6	44
20	The second GeV tagged photon beamline at ELPH. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 622, 1-10.	1.6	37
21	Compressional-mode giant resonances in deformed nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 549, 58-63.	4.1	36
22	Near-Threshold Photoproduction of $\Lambda(1520)$ from the Deuteron at $\theta_{lab} = 0^\circ$. Physical Review C, 2009, 80, .	2.9	33
23	Backward-angle photoproduction from protons at $\theta_{lab} = 180^\circ$. Physical Review C, 2009, 80, .	2.9	33
24	Cross Sections and Beam Asymmetry for $\Lambda(1520)$ Photoproduction from the Deuteron at $\theta_{lab} = 180^\circ$. Physical Review Letters, 2009, 102, 012501.	7.8	32
25	Photoproduction of neutral kaons on a liquid deuterium target in the threshold region. Physical Review C, 2008, 78, .	2.9	31
26	Nuclear structure of the spin-isospin excited states in ^{13}N studied via the (He^3, t) and (He^3, tp) reactions at 450 MeV. Physical Review C, 2004, 69, .	2.9	30
27	First measurement of coherent double neutral-pion photoproduction on the deuteron at incident energies below 0.9 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 398-402.	4.1	29
28	Forward coherent ρ^0 -meson photoproduction from deuterons near threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 658, 209-215.	4.1	28
29	Non-strange dibaryons studied in the $^3\text{He}(\gamma, \pi^+\pi^0)\text{d}$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 413-418.	4.1	28
30	Measurement of the $^3\text{He}(\gamma, \pi^+\pi^0)\text{K}^+\text{p}$ reaction at backward angles. Physical Review C, 2007, 76, .	2.9	27
31	Measurement of spin-density matrix elements for ρ^0 -meson photoproduction from protons and deuterons near threshold. Physical Review C, 2010, 82, .	2.9	27
32	Polarization transfer observables for proton inelastic scattering from ^{12}C at 0° . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 459, 61-66.	4.1	26
33	Gamow-Teller Strengths of the Inverse Beta Transition $Y(1764)$ for Spectroscopy of Proton-Proton and Other Sub-MeV Solar Neutrinos. Physical Review Letters, 2000, 85, 4442-4445.	7.8	24
34	Measurement of the incoherent ρ^0 -meson photoproduction near threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 684, 6-10.	4.1	24
35	Measurement of the incoherent ρ^0 -meson photoproduction near threshold. Physical Review Letters, 2012, 108, 092001.	7.8	24
36	The FOREST detector for meson photoproduction experiments at ELPH. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 832, 108-143.	1.6	24

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37	A fast profile monitor with scintillating fiber hodoscopes for high-intensity photon beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 811, 124-132.	1.6	22
38	Polarization transfer in the $^{16}\text{O}(p,\pi^2)$ reaction at forward angles and structure of the spin-dipole resonances. Physical Review C, 2002, 65, .	2.9	21
39	$\frac{d\sigma}{d\Omega}(\theta, \phi) = \frac{d\sigma_{\text{unpol}}}{d\Omega}(\theta) [1 + P \cos^2\theta + A \sin^2\theta \cos 2\phi + B \sin^2\theta \sin 2\phi]$	4.1	21
40	Evidence for a 3.8 MeV state in ^9B . Physical Review C, 2001, 64, .	2.9	20
41	Structure and decay of the s-hole state in ^{11}B studied via the $^{12}\text{C}(p,2p)^{11}\text{B}^*$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 551, 255-261.	4.1	20
42	Photoproduction of $\hat{1}$ -mesons off C and Cu nuclei for photon energies below 1.1 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 639, 429-435.	4.1	20
43	$\frac{d\sigma}{d\Omega}(\theta, \phi) = \frac{d\sigma_{\text{unpol}}}{d\Omega}(\theta) [1 + P \cos^2\theta + A \sin^2\theta \cos 2\phi + B \sin^2\theta \sin 2\phi]$	7.8	19
44	Thin ice target for $^{16}\text{O}(p,\pi^2)$ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 459, 171-176.	1.6	17
45	Photo-production of neutral kaons on ^{12}C in the threshold region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 651, 269-274.	4.1	17
46	A detailed test of a BSO calorimeter with $100 \leq E \leq 800$ MeV positrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 694, 348-360.	1.6	17
47	Testing a prototype BGO calorimeter with $100 \leq E \leq 800$ MeV positron beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 837, 109-122.	1.6	17
48	First beam test on a BSO electromagnetic calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 550, 258-266.	1.6	16
49	$\hat{1}$ photoproduction on the proton at $E^3 = 1.5 \leq E^3 \leq 2.9$ GeV. Physical Review C, 2017, 96, .	2.9	14
50	Search for π^0 production in the $^{12}\text{C}(p,\pi^0)^{12}\text{C}$ reaction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 837, 109-122.		

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55	Excitation and decay of the isovector spin-flip giant monopole resonance via the $^{208}\text{Pb}(^3\text{He},\text{tp})$ reaction at 410 MeV. Nuclear Physics A, 2004, 731, 121-128.	1.5	11
56	Low-energy $\hat{1}$ -nucleon interaction studied with $\hat{1}$ -photoproduction off the deuteron. Physical Review C, 2017, 96, .	2.9	11
57	Measurement of neutral pion photoproduction off the proton with the large acceptance electromagnetic calorimeter BGOegg. Physical Review C, 2019, 100, .	2.9	10
58	The effect of deformation in the isoscalar giant dipole resonance. Nuclear Physics A, 2004, 731, 41-48.	1.5	9
59	Profile measurement of circulating electrons in a synchrotron by inserting a carbon wire. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 922, 108-113.	1.6	9
60	Resonance-like structure near the $\hat{1}$ threshold in the $\hat{1}$ reaction. Physical Review C, 2021, 104, .	2.9	9
61	Kaon photoproduction on the deuteron at Sendai. EPJ Web of Conferences, 2012, 20, 02005.	0.3	8
62	Backward-angle photoproduction of \hat{A} and \hat{A}' mesons from protons in the photon energy range from 1.5 to 3.0 GeV. Progress of Theoretical and Experimental Physics, 2015, 2015, 13D01-0.	6.6	8
63	First measurement of coherent $\hat{1}$ -meson photoproduction from He near threshold. Physical Review C, 2018, 97, .	2.9	8
64	Differential cross section and photon-beam asymmetry for the $\hat{1}^3\hat{a}_f - \text{p}\hat{a}^+\hat{1}^{\epsilon} + \text{n}$ reaction at forward $\hat{1}^{\epsilon} +$ angles at $E\hat{1}^3 = 1.5 \hat{a}^{\epsilon} 2.95$ GeV. Physical Review C, 2018, 97, .	2.9	8
65	Differential cross sections, photon beam asymmetries, and spin density matrix elements of $\hat{1}^3\hat{1}^{\epsilon}$ photoproduction off the proton at $\hat{1}^3$ GeV. Physical Review C, 2020, 102, .	2.9	8
66	SPring-8 LEPS2 beamline: A facility to produce a multi-GeV photon beam via laser Compton scattering. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1033, 166677.	1.6	8
67	Study of double pion photoproduction on the deuteron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 17-22.	4.1	7
68	Study of giant monopole resonance in ^{58}Ni via the $(\hat{1})$ reaction at $O\hat{a}^{\sim}$. Nuclear Physics A, 2001, 687, 58-63.	1.5	6
69	Cluster fragmentations of deep(1s)-hole states in light nuclei. Nuclear Physics A, 2004, 738, 451-454.	1.5	6
70	EM CALORIMETER COMPLEX FOREST FOR THE $\hat{1}^{\epsilon}0$ AND $\hat{1}$ -PHOTO-PRODUCTION EXPERIMENTS AT LNS-SENDAI. Modern Physics Letters A, 2009, 24, 978-981.	1.2	6
71	An event mixing technique for Bose-Einstein correlations of two pions in photoproduction around 1 GeV. Chinese Physics C, 2016, 40, 114002.	3.7	6
72	Neutral Kaon Spectrometer 2. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 886, 88-103.	1.6	6

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91	Time projection chamber at SPring-8. Nuclear Physics A, 2003, 721, C1095-C1098.	1.5	2
92	Extraction of Neutron Density Distributions from Proton Elastic Scattering at Intermediate Energies. AIP Conference Proceedings, 2003, , .	0.4	2
93	Structures and decay of deep-hole states in light nuclei populated by the (p, 2p 2p) reactions. Physics of Atomic Nuclei, 2004, 67, 1810-1817.	0.4	2
94	Strangeness photoproduction experiments at SENDAI. Nuclear Physics A, 2010, 835, 317-320.	1.5	2
95	Energy calibration of tagged photons by the $d(\hat{1}^3, \hat{1}^0 \rightarrow \hat{1}^0 + pp)$ reaction. Chinese Physics C, 2010, 34, 35-38.	3.7	2
96	Neutral Kaon Photo-Production in the Threshold Energy Region. , 2011, , .		2
97	Study for the $\hat{1}^0 \hat{1}^0 \hat{1}^0$ Interaction Through $\hat{1}^0$ Photoproduction Near the Threshold. Few-Body Systems, 2013, 54, 1135-1140.	1.5	2
98	Possible $\hat{1}^0 \hat{1}^0 d$ bound state and its s-channel formation in the $\hat{1}^3 d \hat{1}^0 \hat{1}^0 d$ reaction. Physical Review C, 2018, 97, .	2.9	2
99	$\hat{1}^0$ PHOTO-PRODUCTION ON THE DEUTERON AT LNS, TOHOKU UNIVERSITY. , 2009, , .		2
100	DAQ system for LEPS experiment. IEEE Transactions on Nuclear Science, 2001, 48, 1282-1285.	2.0	1
101	$\hat{1}^0 \hat{1}^0$ photoproduction experiment at SPring-8. Nuclear Physics A, 2003, 721, C723-C726.	1.5	1
102	Weak isoscalar response of ^{11}B . Physics of Atomic Nuclei, 2004, 67, 1794-1798.	0.4	1
103	DOUBLE PION PHOTOPRODUCTION EXPERIMENT AT LNS $\hat{1}^0$ TOHOKU. Modern Physics Letters A, 2008, 23, 2313-2316.	1.2	1
104	NEUTRAL KAON PHOTOPRODUCTION AT LNS, TOHOKU UNIVERSITY. International Journal of Modern Physics E, 2010, 19, 2355-2362.	1.0	1
105	$\hat{1}^0$ and $\hat{1}^0$ Photoproduction on the Deuteron at ELPH, Tohoku University. Few-Body Systems, 2013, 54, 1047-1050.	1.5	1
106	A study of event mixing for two-pion Bose $\hat{1}^0$ Einstein correlations in the $\hat{1}^3 p \hat{1}^0 \hat{1}^0 p$ reaction. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	1
107	Non-strange Dibaryon Resonances Observed in Coherent Double Neutral-Pion Photoproduction on the Deuteron. , 2019, , .		1
108	EXTRACTION OF NEUTRON DENSITY DISTRIBUTIONS FROM PROTON ELASTIC SCATTERING AT INTERMEDIATE ENERGIES. , 2003, , .		1

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109	Non-strange dibaryons studied in coherent double neutral-meson photoproduction on the deuteron. EPJ Web of Conferences, 2020, 241, 01007.	0.3	1
110	Coherent photoproduction of the neutral-pion and π^0 -meson on the deuteron at incident energies below 1.15 GeV. Physical Review C, 2022, 105, .	2.9	1
111	Spin-dipole resonances in $^{16}\text{O}(\pi^{\pm}, \pi^{\pm})$ reaction. AIP Conference Proceedings, 2001, , .	0.4	0
112	Instrumentation for the polarization transfer experiment in proton inelastic scattering at 0° . AIP Conference Proceedings, 2001, , .	0.4	0
113	First results from SPring-8/LEPS and prospects. AIP Conference Proceedings, 2001, , .	0.4	0
114	Extraction of neutron density distributions from proton elastic scattering at intermediate energies. AIP Conference Proceedings, 2002, , .	0.4	0
115	Polarization Transfer in the $^{16}\text{O}(p, p\pi^0)$ Reaction at Forward Angles and Structure of the Spin-dipole Resonances. AIP Conference Proceedings, 2003, , .	0.4	0
116	K^0 photoproduction on ^{12}C in the threshold region. Nuclear Physics A, 2005, 754, 327-331.	1.5	0
117	Study of charged pion photoproduction on deuteron. Nuclear Physics A, 2010, 834, 596c-598c.	1.5	0
118	Study of Strangeness Photoproduction on the Neutron in the Threshold Region. Few-Body Systems, 2013, 54, 1175-1178.	1.5	0
119	Study of $^3\text{H}(\pi^{\pm}, \pi^{\pm})\text{d}$ Reaction in an Energy Region of $0.67 \leq E \leq 1.08$ GeV. Few-Body Systems, 2013, 54, 1319-1322.	1.5	0
120	Double neutral pion photoproduction off the proton with FOREST at ELPH. EPJ Web of Conferences, 2016, 109, 04004.	0.3	0
121	Application of an X-ray flat panel sensor to a GeV region gamma-ray beam profile monitor. , 2016, , .		0
122	π^0 N scattering length from π^0 photoproduction on the proton near the threshold. AIP Conference Proceedings, 2020, , .	0.4	0
123	Coherent Neutral Pion and eta Meson Photoproduction on the Deuteron. Few-Body Systems, 2021, 62, 1.	1.5	0
124	π^0 N scattering length from π^0 photoproduction on the proton near the threshold. AIP Conference Proceedings, 2021, , .	0.4	0
125	Observing ISGDR using π^{\pm} inelastic scattering at 400 MeV. , 2000, , .		0
126	Nuclear reaction studied by (\vec{p}, \vec{p}) reactions at 0° . , 2000, , .		0

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127	NEUTRON DENSITY DISTRIBUTIONS OBSERVED BY PROTON ELASTIC SCATTERING. , 2000, , .		0
128	K^+ PHOTOPRODUCTION AT LEPS/SPRING-8. , 2002, , .		0
129	NUCLEON SPIN ASYMMETRY AND NUCLEON AND MESON EFFECTIVE MASSES. , 2002, , .		0
130	ISOSCALAR GIANT DIPOLE RESONANCE AND NUCLEAR INCOMPRESSIBILITY. , 2003, , .		0
131	COMPRESSSIONAL-MODE GIANT RESONANCES IN DEFORMED NUCLEI. , 2003, , .		0
132	THE INVESTIGATION OF STRANGENESS PHOTOPRODUCTION IN THE THRESHOLD REGION AT LNS-TOHOKU. , 2010, , .		0
133	Performance of the FOREST/BLC Spectrometer for Study of the η -nucleon Interaction via the $\gamma d \rightarrow p n$ Reaction. Springer Proceedings in Physics, 2020, , 705-708.	0.2	0
134	DAQ system for LEPS experiment. , 0, , .		0
135	Search for Δ Resonance State Via the Exclusive Measurement of $\gamma d \rightarrow p \pi^+ \pi^-$ Reaction. Few-Body Systems, 2022, 63, 1.	1.5	0
136	Time resolution of a 1.8-m long BC-420 plastic scintillator bar with metal-packaged H11934 photomultiplier tubes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1039, 167164.	1.6	0