

Teppei Katori

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

6,679
citations

76326

40
h-index

60623

81
g-index

105
all docs

105
docs citations

105
times ranked

2700
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutrino interaction physics in neutrino telescopes. European Physical Journal: Special Topics, 2021, 230, 4293-4308.	2.6	2
2	Lorentz Symmetry and High-Energy Neutrino Astronomy. Universe, 2021, 7, 490.	2.5	4
3	Sterile neutrinos in astrophysical neutrino flavor. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 015-015.	5.4	19
4	Test of Lorentz Violation with Astrophysical Neutrino Flavor at IceCube. , 2020, , .		2
5	Search for neutral-current induced single photon production at the ND280 near detector in T2K. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 08LT01.	3.6	10
6	First Measurement of Monoenergetic Muon Neutrino Charged Current Interactions. Physical Review Letters, 2018, 120, 141802.	7.8	25
7	Measurement of the single $\bar{\nu}_e$ production rate in neutral current neutrino interactions on water. Physical Review D, 2018, 97, .	4.7	4
8	NuSTEC White Paper: Status and challenges of neutrino-nucleus scattering. Progress in Particle and Nuclear Physics, 2018, 100, 1-68.	14.4	206
9	Neutrino-nucleus cross sections for oscillation experiments. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 013001.	3.6	109
10	Significant Excess of Electronlike Events in the MiniBooNE Short-Baseline Neutrino Experiment. Physical Review Letters, 2018, 121, 221801.	7.8	335
11	Search for $C \langle \mathcal{P} \rangle$ Violation in Neutrino and Antineutrino Oscillations by the T2K Experiment with $2.2 \text{--} 10 < \mathcal{P} \rangle 21 < \mathcal{P} \rangle$ Protons on Target. Physical Review Letters, 2018, 121, 171802.	7.8	165
12	Physics potentials with the second Hyper-Kamiokande detector in Korea. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	77
13	Neutrino interferometry for high-precision tests of Lorentz symmetry with IceCube. Nature Physics, 2018, 14, 961-966.	16.7	66
14	Measurement of inclusive double-differential $\hat{1}/2\hat{1}/4$ charged-current cross section with improved acceptance in the T2K off-axis near detector. Physical Review D, 2018, 98, .	4.7	23
15	PINGU: a vision for neutrino and particle physics at the South Pole. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 054006.	3.6	45
16	Design and construction of the MicroBooNE detector. Journal of Instrumentation, 2017, 12, P02017-P02017.	1.2	215
17	Search for Lorentz and $C \langle \mathcal{P} \rangle T$ violation using sidereal time dependence of neutrino flavor transitions over a short baseline. Physical Review D, 2017, 95, .	4.7	19
18	First measurement of the muon neutrino charged current single pion production cross section on water with the T2K near detector. Physical Review D, 2017, 95, .	4.7	33

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19	Dark Matter Search in a Proton Beam Dump with MiniBooNE. Physical Review Letters, 2017, 118, 221803.	7.8	90
20	Updated T2K measurements of muon neutrino and antineutrino disappearance using χ^2 analysis of neutrino oscillation data. Physical Review Letters, 2017, 118, 151801.	7.8	146
21	Call him Doctor Cooper. Physics Today, 2017, 70, 13-13.	0.3	0
22	Combined Analysis of Neutrino and Antineutrino Oscillations at T2K. Physical Review Letters, 2017, 118, 151801.	7.8	146
23	Measurement of neutrino and antineutrino oscillations by the T2K experiment including a new additional sample of neutrinos at the far detector. Physical Review D, 2017, 96, .	4.7	95
24	Measurement of $\hat{\sigma}_{\mu\nu}^{\nu\mu}$ and $\hat{\sigma}_{\mu\nu}^{\nu\mu}$ charged current inclusive cross sections and their ratio with the T2K off-axis near detector. Physical Review D, 2017, 96, .	4.7	9
25	Search for Lorentz Violation in km ³ -Scale Neutrino Telescopes. , 2017, , .		2
26	Test of Lorentz Violation with Astrophysical Neutrino Flavor. , 2017, , .		1
27	First Look at PYTHIA8 Hadronization Program for Neutrino Interaction Generators. , 2016, , .		3
28	Upper bound on neutrino mass based on T2K neutrino timing measurements. Physical Review D, 2016, 93, .	4.7	2
29	Measurement of the muon neutrino inclusive charged-current cross section in the energy range of 1â€“3 GeV with the T2K INGRID detector. Physical Review D, 2016, 93, .	4.7	14
30	Measurement of Muon Antineutrino Oscillations with an Accelerator-Produced Off-Axis Beam. Physical Review Letters, 2016, 116, 181801.	7.8	31
31	Measurement of double-differential muon neutrino charged-current interactions on C ₈ H ₈ without pions in the final state using the T2K off-axis beam. Physical Review D, 2016, 93, .	4.7	77
32	Measurement of Coherent μN Production in Low Energy Neutrino-Carbon Scattering. Physical Review Letters, 2016, 117, 192501.	7.8	21
33	Neutrino oscillation physics potential of the T2K experiment. Progress of Theoretical and Experimental Physics, 2015, 2015, .	6.6	32
34	Effect of New Physics in Astrophysical Neutrino Flavor. Physical Review Letters, 2015, 115, 161303.	7.8	90
35	Measurements of neutrino oscillation in appearance and disappearance channels by the T2K experiment on target. Physical Review D, 2015, 91, .	4.7	205
36	Measurement of the $\hat{\sigma}_{\mu\nu}^{\nu\mu}$ charged current quasielastic cross section on carbon with the T2K on-axis neutrino beam. Physical Review D, 2015, 91, .	4.7	36

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37	Measurement of the electron neutrino charged-current interaction rate on water with the T2K ND280 μ on detector. Physical Review D, 2015, 91, .	4.7	10
38	Measurement of the ν_{μ} quasielastic cross section on carbon with the ND280 detector at T2K. Physical Review D, 2015, 92, .	4.7	10
39	Meson exchange current (MEC) models in neutrino interaction generators. AIP Conference Proceedings, 2015, , .	0.4	40
40	Hadronization processes in neutrino interactions. AIP Conference Proceedings, 2015, , .	0.4	0
41	Short Baseline Neutrino Oscillation Experiments. Journal of Physics: Conference Series, 2015, 598, 012006.	0.4	5
42	Cross section analyses in MiniBooNE and SciBooNE experiments. AIP Conference Proceedings, 2015, , .	0.4	0
43	PYTHIA hadronization process tuning in the GENIE neutrino interaction generator. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 115004.	3.6	13
44	Beyond Standard Model Searches in the MiniBooNE Experiment. Advances in High Energy Physics, 2015, 2015, 1-19.	1.1	7
45	Physics potential of a long-baseline neutrino oscillation experiment using a J-PARC neutrino beam and Hyper-Kamiokande. Progress of Theoretical and Experimental Physics, 2015, 2015, 53C02-0.	6.6	157
46	Measurement of the antineutrino neutral-current elastic differential cross section. Physical Review D, 2015, 91, .	4.7	31
47	Search for short baseline ν_{μ} disappearance with the T2K near detector. Physical Review D, 2015, 91, .	4.7	14
48	Measurement of the Inclusive Electron Neutrino Charged Current Cross Section on Carbon with the T2K Near Detector. Physical Review Letters, 2014, 113, 241803.	7.8	44
49	Charged current quasi-elastic cross-section measurements in MiniBooNE. Modern Physics Letters A, 2014, 29, 1430011.	1.2	3
50	Measurement of the neutrino-oxygen neutral-current interaction cross section by observing nuclear deexcitation rays. Physical Review D, 2014, 90, .	4.7	20
51	Measurement of the inclusive ν_{μ} charged current cross section on iron and hydrocarbon in the T2K on-axis neutrino beam. Physical Review D, 2014, 90, .	4.7	38
52	Liquid Argon Time Projection Chamber research and development in the United States. Journal of Instrumentation, 2014, 9, T05005-T05005.	1.2	13
53	Tests of Lorentz and CPT violation with MiniBooNE neutrino oscillation excesses. Journal of Physics: Conference Series, 2014, 485, 012041.	0.4	2
54	TESTING LORENTZ SYMMETRY WITH THE DOUBLE CHOOZ EXPERIMENT. , 2014, , 9-12.		2

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55	First measurement of the muon antineutrino double-differential charged-current quasielastic cross section. <i>Physical Review D</i> , 2013, 88, .	4.7	137
56	Search for neutrino-antineutrino oscillations with a reactor experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 727, 412-416.	4.1	30
57	Test of Lorentz and CPT violation with short baseline neutrino oscillation excesses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 718, 1303-1308.	4.1	52
58	Improved Search for $\nu_{\mu} \rightarrow \nu_{\tau}$ Oscillations in the MiniBooNE Experiment. <i>Physical Review Letters</i> , 2013, 110, 161801.	4.7	48
59	The MicroBooNE light collection system. <i>Journal of Instrumentation</i> , 2013, 8, C10011-C10011.	1.2	3
60	A measurement of the absorption of liquid argon scintillation light by dissolved nitrogen at the part-per-million level. <i>Journal of Instrumentation</i> , 2013, 8, P07011-P07011.	1.2	35
61	Testing of cryogenic photomultiplier tubes for the MicroBooNE experiment. <i>Journal of Instrumentation</i> , 2013, 8, T07005-T07005.	1.2	18
62	The effects of dissolved methane upon liquid argon scintillation light. <i>Journal of Instrumentation</i> , 2013, 8, P12015-P12015.	1.2	12
63	Dual baseline search for muon antineutrino disappearance at $0.1 \text{ eV}^2 < m^2 < 100 \text{ eV}^2$. <i>Physical Review D</i> , 2012, 86, .	4.7	64
64	Dual baseline search for muon neutrino disappearance at $> 0.5 \text{ eV}^2$. <i>Physical Review D</i> , 2012, 85, .	4.7	71
65	TESTS OF LORENTZ AND CPT VIOLATION WITH MiniBooNE NEUTRINO OSCILLATION EXCESSES. <i>Modern Physics Letters A</i> , 2012, 27, 1230024.	1.2	35
66	First test of Lorentz violation with a reactor-based antineutrino experiment. <i>Physical Review D</i> , 2012, 86, .	4.7	41
67	Environmental effects on TPB wavelength-shifting coatings. <i>Journal of Instrumentation</i> , 2012, 7, P07007-P07007.	1.2	16
68	Measurement of E -induced charged-current neutral pion production cross sections on mineral oil at $> 0.5 \text{ eV}$. <i>Physical Review D</i> , 2011, 83, .	4.7	81
69	Measurement of inclusive charged current interactions on carbon in a few-GeV neutrino beam. <i>Physical Review D</i> , 2011, 83, .	4.7	81
70	Measurement of the neutrino component of an antineutrino beam observed by a nonmagnetized detector. <i>Physical Review D</i> , 2011, 84, .	4.7	27
71	First Measurement of Muon Neutrino Charged Current Quasielastic (CCQE) Double Differential Cross Section. , 2011, , .		0
72	Global three-parameter model for neutrino oscillations using Lorentz violation. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2011, 221, 357.	0.4	2

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73	Demonstration of a lightguide detector for liquid argon TPCs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 640, 69-75.	1.6	24
74	Measurement of neutrino-induced charged-current charged pion production cross sections on mineral oil at $E < 1.5 \text{ GeV}$. Physical Review D, 2011, 83, .	4.7	122
75	Measurement of K^+ production cross section by 8 GeV protons using high-energy neutrino interactions in the SciBooNE detector. Physical Review D, 2011, 84, .	4.7	17
76	MicroBooNE, A Liquid Argon Time Projection Chamber (LArTPC) Neutrino Experiment. , 2011, , .		7
77	Publisher's Note: Measurement of the Ratio of the $1/2$ Charged-Current Single-Pion Production to Quasielastic Scattering with a 0.8 GeV Neutrino Beam on Mineral Oil [Phys. Rev. Lett.103, 081801 (2009)]. Physical Review Letters, 2010, 104, .	7.8	0
78	Measurement of inclusive neutral current $\bar{\nu}_e$ production on carbon in a few-GeV neutrino beam. Physical Review D, 2010, 81, .	4.7	33
79	Event Excess in the MiniBooNE Search for $\bar{\nu}_e$ Oscillation. Physical Review Letters, 2010, 105, 101801.	7.8	81
80	First Measurement of Muon Neutrino Charged Current Quasielastic (CCQE) Double Differential Cross Section. , 2010, , .		1
81	Measurement of the neutrino neutral-current elastic differential cross section on mineral oil at $E < 1.5 \text{ GeV}$. Physical Review D, 2010, 82, .	4.7	122
82	Improved measurement of neutral current coherent $\bar{\nu}_e$ production on carbon in a few-GeV neutrino beam. Physical Review D, 2010, 81, .	4.7	33
83	Search for core-collapse supernovae using the MiniBooNE neutrino detector. Physical Review D, 2010, 81, .	4.7	11
84	First measurement of the muon neutrino charged current quasielastic double differential cross section. Physical Review D, 2010, 81, .	4.7	341
85	Measurement of $\bar{\nu}_e$ production on carbon in a few-GeV neutrino beam. Physical Review D, 2010, 81, .	4.7	81
86	Search for Electron Antineutrino Appearance at the $0 < E < 1.5 \text{ GeV}$. Physical Review D, 2010, 81, .	7.8	82
87	Search for Muon Neutrino and Antineutrino Disappearance in MiniBooNE. Physical Review Letters, 2009, 103, 061802.	7.8	49
88	Unexplained Excess of Electronlike Events from a 1-GeV Neutrino Beam. Physical Review Letters, 2009, 102, 101802.	7.8	292
89	Measurement of $\bar{\nu}_e$ production on carbon in a few-GeV neutrino beam. Physical Review D, 2010, 81, .	7.8	26
90	Measurement of the Ratio of the $1/2$ Charged-Current Single-Pion Production to Quasielastic Scattering with a 0.8 GeV Neutrino Beam on Mineral Oil. Physical Review Letters, 2009, 103, 081801.	7.8	44

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91	First Measurement of Muon Neutrino Charged Current Quasielastic (CCQE) Double Differential Cross Section. AIP Conference Proceedings, 2009, .	0.4	17
92	Neutrino flux prediction at MiniBooNE. Physical Review D, 2009, 79, . First observation of coherent π^0 production in neutrino-nucleus interactions with $E \approx 1/2$ GeV	4.7	208
93	production in neutrino-nucleus interactions with $E \approx 1/2$ GeV. Physical Review D, 2009, 79, .	4.1	72
94	Compatibility of high-energy ν_e and ν_μ neutrino oscillation searches. Physical Review D, 2008, 78, .	4.7	6
95	Measurement of Muon Neutrino Quasielastic Scattering on Carbon. Physical Review Letters, 2008, 100, 032301.	7.8	151
96	Search for charged current coherent pion production on carbon in a few-GeV neutrino beam. Physical Review D, 2008, 78, .	4.7	72
97	Search for Electron Neutrino Appearance at the $\nu_\mu \rightarrow \nu_e$ Scale. Physical Review Letters, 2007, 98, 231801.	4.7	422
98	Charged-Current Interaction Measurements in MiniBooNE. AIP Conference Proceedings, 2007, .	0.4	5
99	A large-volume detector capable of charged-particle tracking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 198-206.	1.6	6
100	Global three-parameter model for neutrino oscillations using Lorentz violation. Physical Review D, 2006, 74, .	4.7	119
101	The FINeSSE Detector. Nuclear Physics, Section B, Proceedings Supplements, 2005, 143, 502.	0.4	0
102	The FINeSSE Detector. Nuclear Physics, Section B, Proceedings Supplements, 2005, 139, 317-322.	0.4	4
103	Tests of Lorentz violation in ν_e and ν_μ neutrino oscillations. Physical Review D, 2005, 72, .	4.7	82