Teppei Katori

List of Publications by Year
in descending order

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	Improved Search for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>Î¼</mml:mi></mml:msub><mml:mo>â†’</mml:mo><mml:msub><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>e</mml:mi></mml:msub></mml:math>Oscillations in the MiniBooNE Experiment. Physical Review Letters, 2013, 110, 161801.	7.8	434
2	Search for Electron Neutrino Appearance at theÎ”m2â‰ˆ1â€‰â€‰eV2Scale. Physical Review Letters, 2007, 98, 231801.	7.8	422
3	Event Excess in the MiniBooNE Search for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>Î¼</mml:mi></mml:msub><mml:mo>â†’</mml:mo><mml:msub><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>e</mml:mi></mml:msub></mml:math>Oscillations. Physical Review Letters, 2010, 105, 181801.	7.8	381
4	First measurement of the muon neutrino charged current quasielastic double differential cross section. Physical Review D, 2010, 81, .	4.7	341
5	Significant Excess of Electronlike Events in the MiniBooNE Short-Baseline Neutrino Experiment. Physical Review Letters, 2018, 121, 221801.	7.8	335
6	Unexplained Excess of Electronlike Events from a 1-GeV Neutrino Beam. Physical Review Letters, 2009, 102, 101802.	7.8	292
7	Design and construction of the MicroBooNE detector. Journal of Instrumentation, 2017, 12, P02017-P02017.	1.2	215
8	Neutrino flux prediction at MiniBooNE. Physical Review D, 2009, 79, .	4.7	208
9	NuSTEC ÂWhite Paper: Status and challenges of neutrinoâ€“nucleus scattering. Progress in Particle and Nuclear Physics, 2018, 100, 1-68.	14.4	206
10	Measurements of neutrino oscillation in appearance and disappearance channels by the T2K experiment with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>6.6</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>1</mml:mn><mml:msup><mml:mn>0</mml:mn><mml:m on target. Physical Review D, 2015, 91, .	4.7	205
11	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math> Violation in Neutrino and Antineutrino Oscillations by the T2K Experiment with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2.2</mml:mn><mml:mo>Ã—</mml:mo><mml:msup><mml:mn>10</mml:mn><mml:mn>21</mml:mn></mml:m Protons on Target. Physical Review Letters, 2018, 121, 171802.	7.8	165
12	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
13	Measurement of Muon Neutrino Quasielastic Scattering on Carbon. Physical Review Letters, 2008, 100, 032301.	7.8	151
14	Combined Analysis of Neutrino and Antineutrino Oscillations at T2K. Physical Review Letters, 2017, 118, 151801.	7.8	146
15	First measurement of the muon antineutrino double-differential charged-current quasielastic cross section. Physical Review D, 2013, 88, .	4.7	137
16	Measurement of the neutrino neutral-current elastic differential cross section on mineral oil at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>E</mml:mi><mml:mi>Î½</mml:mi></mml:msub><mml:mo>â^¼</mml:mo><mml:mn>1</mml:mn> Physical Review D, 2010, 82, .	4.7	122
17	Measurement of neutrino-induced charged-current charged pion production cross sections on mineral oil at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>E</mml:mi><mml:mi>Î½</mml:mi></mml:msub><mml:mo>â^¼</mml:mo><mml:mn>1</mml: Physical Review D, 2011, 83, .	4.7	122
18	Global three-parameter model for neutrino oscillations using Lorentz violation. Physical Review D, 2006, 74, .	4.7	119

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19	Neutrinoâ€“nucleus cross sections for oscillation experiments. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 013001.	3.6	109
20	Measurement of neutrino and antineutrino oscillations by the T2K experiment including a new additional sample of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>e</mml:mi></mml:msub></mml:math>interactions at the far detector. Physical Review D, 2017, 96, .	4.7	95
21	Effect of New Physics in Astrophysical Neutrino Flavor. Physical Review Letters, 2015, 115, 161303.	7.8	90
22	Dark Matter Search in a Proton Beam Dump with MiniBooNE. Physical Review Letters, 2017, 118, 221803.	7.8	90
23	Tests of Lorentz violation inÎ½Â¯Î¼â†'Î½Â¯eoscillations. Physical Review D, 2005, 72, .	4.7	82
24	Search for Electron Antineutrino Appearance at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î”</mml:mi><mml:msup><mml:mi>m</mml:mi><mml:mn>2</mml:mn></mml:msup><mml:mo>â¼</mml:m Physical Review Letters, 2009, 103, 111801.	7.8	82
25	Measurement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>Î¼</mml:mi></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo>Â¯</mml:mo></mml:mover><mml:mi>Î¼</mml:mi></mml:msub></mml:math>indu Physical Review D, 2011, 83, .	4.7	81
26	Measurement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>Î¼</mml:mi></mml:msub></mml:math>-induced charged-current neutral pion production cross sections on mineral oil at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>E</mml:mi><mml:mi>Î½</mml:mi></mml:msub><mml:mo>â^¼</mml:mo><mml:mn>0.5</mml:m Physical Review D, 2011, 83, .	4.7	81
27	Measurement of inclusive charged current interactions on carbon in a few-GeV neutrino beam. Physical Review D, 2011, 83, .	4.7	81
28	Measurement of double-differential muon neutrino charged-current interactions onC8H8without pions in the final state using the T2K off-axis beam. Physical Review D, 2016, 93, .	4.7	77
29	Physics potentials with the second Hyper-Kamiokande detector in Korea. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	77
30	First observation of coherent <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math> production in neutrinoâ€“nucleus interactions with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:msub><mml:mi>E</mml:mi><mml:mi>Î½</mml:mi></mml:msub><mml:mo><</mml:mo><mml:mn>2</mml:mn></mml:	4.1	72
31	Search for charged current coherent pion production on carbon in a few-GeV neutrino beam. Physical Review D, 2008, 78, .	4.7	72
32	Dual baseline search for muon neutrino disappearance at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>0.5</mml:mn><mml:mtext>â€‰</mml:mtext><mml:mtext>â€‰</mml:mtext><mml:msup><mml:mi>eV</ Physical Review D, 2012, 85, .	4.7	71
33	Neutrino interferometry for high-precision tests of Lorentz symmetry with IceCube. Nature Physics, 2018, 14, 961-966.	16.7	66
34	Dual baseline search for muon antineutrino disappearance at0.1â€‰â€‰eV2<Î”m2<100â€‰â€‰eV2. Physical Review D, 2012, 86, .	4.7	64
35	Test of Lorentz and CPT violation with short baseline neutrino oscillation excesses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1303-1308.	4.1	52
36	Search for Muon Neutrino and Antineutrino Disappearance in MiniBooNE. Physical Review Letters, 2009, 103, 061802.	7.8	49

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37	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
38	Measurement of the Ratio of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>Î¼</mml:mi></mml:msub></mml:math>Charged-Current Single-Pion Production to Quasielastic Scattering with a 0.8ÂGeV Neutrino Beam on Mineral Oil. Physical Review Letters, 2009, 103, 081801.	7.8	44
39	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
40	Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Î½</mml:mi></mml:mrow><mml:mrow><mml:mi>Î¼</mml:mi></mml:mrow></mml:msub></mml:math>quasielastic cross section on carbon with the ND280 detector at T2K. Physical Review D, 2015, 92, .	4.7	42
41	First test of Lorentz violation with a reactor-based antineutrino experiment. Physical Review D, 2012, 86, .	4.7	41
42	Meson exchange current (MEC) models in neutrino interaction generators. AIP Conference Proceedings, 2015, , .	0.4	40
43	Measurement of the inclusive<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>Î¼</mml:mi></mml:msub></mml:math>charged current cross section on iron and hydrocarbon in the T2K on-axis neutrino beam. Physical Review D, 2014, 90, .	4.7	38
44	Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>Î¼</mml:mi></mml:msub></mml:math>charged current quasielastic cross section on carbon with the T2K on-axis neutrino beam. Physical Review D, 2015, 91, .	4.7	36
45	TESTS OF LORENTZ AND CPT VIOLATION WITH MiniBooNE NEUTRINO OSCILLATION EXCESSES. Modern Physics Letters A, 2012, 27, 1230024.	1.2	35
46	A measurement of the absorption of liquid argon scintillation light by dissolved nitrogen at the part-per-million level. Journal of Instrumentation, 2013, 8, P07011-P07011.	1.2	35
47	Measurement of inclusive neutral current<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math>production on carbon in a few-GeV neutrino beam. Physical Review D, 2010, 81, .	4.7	33
48	Improved measurement of neutral current coherent<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math>production on carbon in a few-GeV neutrino beam. Physical Review D, 2010, 81, .	4.7	33
49	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
50	Neutrino oscillation physics potential of the T2K experiment. Progress of Theoretical and Experimental Physics, 2015, 2015, .	6.6	32
51	Measurement of the antineutrino neutral-current elastic differential cross section. Physical Review D, 2015, 91, .	4.7	31
52	Measurement of Muon Antineutrino Oscillations with an Accelerator-Produced Off-Axis Beam. Physical Review Letters, 2016, 116, 181801.	7.8	31
53	Search for neutrinoâ€“antineutrino oscillations with a reactor experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 412-416.	4.1	30
54	Measurement of the neutrino component of an antineutrino beam observed by a nonmagnetized detector. Physical Review D, 2011, 84, .	4.7	27

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55	Measurement of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>Î¼</mml:mi></mml:msub></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î½</mml:mi><mml:mi>e</mml:mi></mml:msub></mml:math>Events in an Off-Axis Horn-Focused Neutrino Beam. Physical Review Letters, 2009, 102, 211801.	7.8	26
56	First Measurement of Monoenergetic Muon Neutrino Charged Current Interactions. Physical Review Letters, 2018, 120, 141802.	7.8	25
57	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
58	Measurement of Coherent <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Ï€</mml:mi></mml:mrow><mml:mrow><mml:mn>+</mml:mn></mml:mrow></mml:msup></mml:mrow></mml:math>Production in Low Energy Neutrino-Carbon Scattering. Physical Review Letters, 2016, 117, 192501.	7.8	24
59	Updated T2K measurements of muon neutrino and antineutrino disappearance using <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1.5</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>1</mml:mn><mml:msup><mml:mn>0</mml:mn></mml:msup></mml:math>protons on target. Physical Review D, 2017, 96, .	4.7	23
60	Measurement of inclusive double-differential Î½Î¼ charged-current cross section with improved acceptance in the T2K off-axis near detector. Physical Review D, 2018, 98, .	4.7	23
61	Measurement of the neutrino-oxygen neutral-current interaction cross section by observing nuclear deexcitation<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î³</mml:mi></mml:mrow></mml:math>rays. Physical Review D, 2014, 90, .	4.7	20
62	Search for Lorentz and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi><mml:mi>T</mml:mi></mml:math> violation using sidereal time dependence of neutrino flavor transitions over a short baseline. Physical Review D, 2017, 95, .	4.7	19
63	Sterile neutrinos in astrophysical neutrino flavor. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 015-015.	5.4	19
64	Testing of cryogenic photomultiplier tubes for the MicroBooNE experiment. Journal of Instrumentation, 2013, 8, T07005-T07005.	1.2	18
65	First Measurement of Muon Neutrino Charged Current Quasielastic (CCQE) Double Differential Cross Section. AIP Conference Proceedings, 2009, , .	0.4	17
66	Measurement ofK+production cross section by 8ÂGeV protons using high-energy neutrino interactions in the SciBooNE detector. Physical Review D, 2011, 84, .	4.7	17
67	Environmental effects on TPB wavelength-shifting coatings. Journal of Instrumentation, 2012, 7, P07007-P07007.	1.2	16
68	Search for short baselineÎ½edisappearance with the T2K near detector. Physical Review D, 2015, 91, .	4.7	14
69	Measurement of the muon neutrino inclusive charged-current cross section in the energy range of 1â€“3ÂGeV with the T2K INGRID detector. Physical Review D, 2016, 93, .	4.7	14
70	Liquid Argon Time Projection Chamber research and development in the United States. Journal of Instrumentation, 2014, 9, T05005-T05005.	1.2	13
71	PYTHIA hadronization process tuning in the GENIE neutrino interaction generator. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 115004.	3.6	13
72	The effects of dissolved methane upon liquid argon scintillation light. Journal of Instrumentation, 2013, 8, P12015-P12015.	1.2	12

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73	Search for core-collapse supernovae using the MiniBooNE neutrino detector. Physical Review D, 2010, 81, .	4.7	11
74	Measurement of the electron neutrino charged-current interaction rate on water with the T2K ND280<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math>detector. Physical Review D, 2015, 91, .	4.7	10
75	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
76	Measurement of Î½Â¯Î¼ and Î½Î¼ charged current inclusive cross sections and their ratio with the T2K off-axis near detector. Physical Review D, 2017, 96, .	4.7	9
77	MicroBooNE, A Liquid Argon Time Projection Chamber (LArTPC) Neutrino Experiment. , 2011, , .		7
78	Beyond Standard Model Searches in the MiniBooNE Experiment. Advances in High Energy Physics, 2015, 2015, 1-19.	1.1	7
79	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
80	Compatibility of high-Î”m2Î½eandÎ½Â¯eneutrino oscillation searches. Physical Review D, 2008, 78, .	4.7	6
81	Charged-Current Interaction Measurements in MiniBooNE. AIP Conference Proceedings, 2007, , .	0.4	5
82	Short Baseline Neutrino Oscillation Experiments. Journal of Physics: Conference Series, 2015, 598, 012006.	0.4	5
83	The FINeSSE Detector. Nuclear Physics, Section B, Proceedings Supplements, 2005, 139, 317-322.	0.4	4
84	Measurement of the single Ï€0 production rate in neutral current neutrino interactions on water. Physical Review D, 2018, 97, .	4.7	4
85	Lorentz Symmetry and High-Energy Neutrino Astronomy. Universe, 2021, 7, 490.	2.5	4
86	The MicroBooNE light collection system. Journal of Instrumentation, 2013, 8, C10011-C10011.	1.2	3
87	Charged current quasi-elastic cross-section measurements in MiniBooNE. Modern Physics Letters A, 2014, 29, 1430011.	1.2	3
88	First Look at PYTHIA8 Hadronization Program for Neutrino Interaction Generators. , 2016, , .		3
89	Global three-parameter model for neutrino oscillations using Lorentz violation. Nuclear Physics, Section B, Proceedings Supplements, 2011, 221, 357.	0.4	2
90	Tests of Lorentz and CPT violation with MiniBooNE neutrino oscillation excesses. Journal of Physics: Conference Series, 2014, 485, 012041.	0.4	2

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91	Upper bound on neutrino mass based on T2K neutrino timing measurements. Physical Review D, 2016, 93, .	4.7	2
92	Test of Lorentz Violation with Astrophysical Neutrino Flavor at IceCube. , 2020, , .		2
93	Search for Lorentz Violation in km3-Scale Neutrino Telescopes. , 2017, , .		2
94	TESTING LORENTZ SYMMETRY WITH THE DOUBLE CHOOZ EXPERIMENT. , 2014, , 9-12.		2
95	Neutrino interaction physics in neutrino telescopes. European Physical Journal: Special Topics, 2021, 230, 4293-4308.	2.6	2
96	First Measurement of Muon Neutrino Charged Current Quasielastic (CCQE) Double Differential Cross Section. , 2010, , .		1
97	Test of Lorentz Violation with Astrophysical Neutrino Flavor. , 2017, , .		1
98	The FINeSSE Detector. Nuclear Physics, Section B, Proceedings Supplements, 2005, 143, 502.	0.4	0
99	Publisherâ€™s Note: Measurement of the Ratio of theÎ½Î¼Charged-Current Single-Pion Production to Quasielastic Scattering with a 0.8ÂGeV Neutrino Beam on Mineral Oil [Phys. Rev. Lett.103, 081801 (2009)]. Physical Review Letters, 2010, 104, .	7.8	0
100	First Measurement of Muon Neutrino Charged Current Quasielastic (CCQE) Double Differential Cross Section. , 2011, , .		0
101	Hadronization processes in neutrino interactions. AIP Conference Proceedings, 2015, , .	0.4	0
102	Cross section analyses in MiniBooNE and SciBooNE experiments. AIP Conference Proceedings, 2015, , .	0.4	0
103	Call him Doctor Cooper. Physics Today, 2017, 70, 13-13.	0.3	0