

# Tatsu Takeuchi

## List of Publications by Year in descending order

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64  
papers

5,049  
citations

361413

20  
h-index

161849

54  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3449  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutrino oscillations at JUNO, the Born rule, and Sorkin's triple path interference. <i>Physical Review D</i> , 2022, 105, .	4.7	2
2	Interference and oscillation in Nambu quantum mechanics. <i>Physical Review D</i> , 2021, 104, .	4.7	3
3	Higgs inflation, vacuum stability, and leptogenesis. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	7
4	The effects of coating culture dishes with collagen on fibroblast cell shape and swirling pattern formation. <i>Journal of Biological Physics</i> , 2020, 46, 351-369.	1.5	10
5	Constraints on flavor-diagonal non-standard neutrino interactions from Borexino Phase-II. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	13
6	Dark matter, dark energy and fundamental acceleration. <i>International Journal of Modern Physics D</i> , 2020, 29, 2043030.	2.1	2
7	Spekkens's Toy Model, Finite Field Quantum Mechanics, and the Role of Linearity. <i>Journal of Physics: Conference Series</i> , 2019, 1275, 012036.	0.4	3
8	Modified dark matter: Relating dark energy, dark matter and baryonic matter. <i>International Journal of Modern Physics D</i> , 2018, 27, 1830001.	2.1	15
9	B-decay anomalies and scalar leptoquarks in unified Pati-Salam models from noncommutative geometry. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	23
10	Pendulum Leptogenesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 785, 184-190.	4.1	6
11	Ratchet baryogenesis and an analogy with the forced pendulum. <i>Modern Physics Letters A</i> , 2018, 33, 1850097.	1.2	6
12	Testing Modified Dark Matter with galaxy clusters: Does dark matter know about the cosmological constant?. <i>International Journal of Modern Physics A</i> , 2017, 32, 1750108.	1.5	10
13	Modified dark matter. , 2017, , .		0
14	Pati's Salam unification from noncommutative geometry and the TeV-scale $WR$ boson. <i>International Journal of Modern Physics A</i> , 2016, 31, 1550223.	1.5	23
15	On the physics of the minimal length: The question of gauge invariance. <i>International Journal of Modern Physics A</i> , 2016, 31, 1630012.	1.5	7
16	The 750 GeV diphoton excess in unified $SU(2)_L \times SU(2)_R \times SU(4)$ models from noncommutative geometry. <i>Modern Physics Letters A</i> , 2016, 31, 1650101.	1.2	13
17	On the Physics of the Minimal Length: The Question of Gauge Invariance. , 2016, , .		0
18	Position and momentum uncertainties of a particle in a V-shaped potential under the minimal length uncertainty relation. <i>International Journal of Modern Physics A</i> , 2015, 30, 1550206.	1.5	2

#	ARTICLE	IF	CITATIONS
19	Running of oscillation parameters in matter with flavor-diagonal non-standard interactions of the neutrino. Journal of High Energy Physics, 2015, 2015, 1.	4.7	8
20	Higgs mass, superconnections, and the TeV-scale left-right symmetric model. Physical Review D, 2015, 91, .	4.7	18
21	QUANTUM SYSTEMS BASED UPON GALOIS FIELDS " FROM SUB-QUANTUM TO SUPER-QUANTUM CORRELATIONS. International Journal of Modern Physics A, 2014, 29, 1430006.	1.5	4
22	QUANTUM SYSTEMS BASED UPON GALOIS FIELDS " FROM SUB-QUANTUM TO SUPER-QUANTUM CORRELATIONS. , 2014, , .		0
23	Quantum $\mathbb{F}_m$ : the $q \rightarrow 1$ limit of Galois field quantum mechanics, projective geometry and the field with one element. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 405304.	2.1	6
24	Analytical approximation of the neutrino oscillation matter effects at large $\hat{L}$ . Journal of High Energy Physics, 2014, 2014, 1.	4.7	30
25	The Higgs mass and the emergence of new physics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 301-305.	4.1	12
26	GALOIS FIELD QUANTUM MECHANICS. Modern Physics Letters B, 2013, 27, 1350064.	1.9	10
27	Spin and rotations in Galois field quantum mechanics. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 065304.	2.1	5
28	IS QUANTUM GRAVITY A SUPER-QUANTUM THEORY?. International Journal of Modern Physics D, 2013, 22, 1342025.	2.1	0
29	Biorthogonal quantum mechanics: super-quantum correlations and expectation values without definite probabilities. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 485306.	2.1	5
30	Some mutant forms of quantum mechanics. , 2012, , .		2
31	Constraining non-standard interactions of the neutrino with Borexino. Journal of High Energy Physics, 2012, 2012, 1.	4.7	22
32	Position and momentum uncertainties of the normal and inverted harmonic oscillators under the minimal length uncertainty relation. Physical Review D, 2011, 84, .	4.7	29
33	Bell's Inequalities, Superquantum Correlations, and String Theory. Advances in High Energy Physics, 2011, 2011, 1-11.	1.1	2
34	On the Minimal Length Uncertainty Relation and the Foundations of String Theory. Advances in High Energy Physics, 2011, 2011, 1-30.	1.1	37
35	Ratchet Model of Baryogenesis. , 2011, , .		3
36	QUANTUM GRAVITY, DYNAMICAL ENERGY" MOMENTUM SPACE AND VACUUM ENERGY. Modern Physics Letters A, 2010, 25, 2947-2954.	1.2	20

#	ARTICLE	IF	CITATIONS
37	Future constraints on and from lepton universality. Journal of Physics: Conference Series, 2008, 136, 042045.	0.4	0
38	THE EFFECT OF TOPCOLOR ASSISTED TECHNICOLOR, AND OTHER MODELS, ON NEUTRINO OSCILLATION. , 2008, , .		0
39	LeptonicCPviolation search and the ambiguity of $m_{312}$ . Physical Review D, 2006, 73, .	4.7	5
40	Quantum gravity, torsion, parity violation, and all that. Physical Review D, 2005, 72, .	4.7	155
41	Hydrogen-atom spectrum under a minimal-length hypothesis. Physical Review A, 2005, 72, .	2.5	144
42	NuTeV anomaly, lepton universality, and nonuniversal neutrino-gauge couplings. Physical Review D, 2004, 70, .	4.7	43
43	Quark-lepton unification and lepton flavor nonconservation from a TeV-scale seesaw neutrino mass texture. Physical Review D, 2003, 68, .	4.7	20
44	NuTeV anomaly, neutrino mixing, and a heavy Higgs boson. Physical Review D, 2003, 67, .	4.7	34
45	THE W MASS AND THE U PARAMETER. , 2003, , .		0
46	Effect of the minimal length uncertainty relation on the density of states and the cosmological constant problem. Physical Review D, 2002, 65, .	4.7	276
47	Short distance versus long distance physics: The classical limit of the minimal length uncertainty relation. Physical Review D, 2002, 66, .	4.7	187
48	Exact solution of the harmonic oscillator in arbitrary dimensions with minimal length uncertainty relations. Physical Review D, 2002, 65, .	4.7	280
49	Constraints on gauged $B-L$ , and related theories. Physical Review D, 2001, 63, .	4.7	15
50	Constraints on two-Higgs-doublet models at large $\tan\beta$ from W and Z decays. Physical Review D, 2000, 62, .	4.7	13
51	Constraints on R-parity violating couplings from CERN LEP and SLAC SLD hadronic observables. Physical Review D, 2000, 62, .	4.7	20
52	Constraints on R-parity violating couplings from lepton universality. Physical Review D, 2000, 61, .	4.7	20
53	Analytic continuation by duality estimation of the S parameter. Physical Review D, 2000, 61, .	4.7	15
54	Universal Torsion-Induced Interaction from Large Extra Dimensions. Physical Review Letters, 2000, 85, 3765-3768.	7.8	23

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55	Constraints on top-color assisted technicolor models from vertex corrections. Physical Review D, 1999, 60, .	4.7	45
56	Predictions of $m_b/m_t$ and $m_t$ in an asymptotically nonfree theory. Physical Review D, 1997, 56, 1589-1597.	4.7	5
57	ACD estimation of the S-parameter revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 401, 287-293.	4.1	1
58	Estimation of oblique electroweak corrections. Physical Review D, 1992, 46, 381-409.	4.7	1,737
59	Jackiw-Johnson sum rule for dynamical symmetry breaking. Physical Review D, 1990, 41, 3192-3196.	4.7	3
60	New constraint on a strongly interacting Higgs sector. Physical Review Letters, 1990, 65, 964-967.	7.8	1,435
61	Analytical and numerical study of the Schwinger-Dyson equation with four-fermion coupling. Physical Review D, 1989, 40, 2697-2707.	4.7	57
62	Higher mass scales and mass hierarchies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 220, 223-228.	4.1	122
63	High energy isospin breaking in technicolor theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 232, 211-216.	4.1	35
64	Dynamical dark energy and infinite statistics. International Journal of Modern Physics A, 0, , .	1.5	1