Tatsu Takeuchi

List of Publications by Year in Descending Order

56 papers	4,075 citations	20 h-index	63 g-index
65 ext. papers	4,430 ext. citations	3.6 avg, IF	5.22 L-index

#	Paper	IF	Citations
56	Dark matter, dark energy and fundamental acceleration. *International Journal of Modern Physics D*, **2020**, 29, 2043030	2.2	
55	Constraints on flavor-diagonal non-standard neutrino interactions from Borexino Phase-II. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	6
54	Higgs inflation, vacuum stability, and leptogenesis. *Journal of High Energy Physics*, **2020**, 2020, 1	5.4	4
53	The effects of coating culture dishes with collagen on fibroblast cell shape and swirling pattern formation. *Journal of Biological Physics*, **2020**, 46, 351-369	1.6	4
52	Spekkens□Toy Model, Finite Field Quantum Mechanics, and the Role of Linearity. *Journal of Physics: Conference Series*, **2019**, 1275, 012036	0.3	0
51	Ratchet baryogenesis and an analogy with the forced pendulum. *Modern Physics Letters A*, **2018**, 33, 1850097	1.3	4
50	Modified dark matter: Relating dark energy, dark matter and baryonic matter. *International Journal of Modern Physics D*, **2018**, 27, 1830001	2.2	14
49	B-decay anomalies and scalar leptoquarks in unified Pati-Salam models from noncommutative geometry. *Journal of High Energy Physics*, **2018**, 2018, 1	5.4	17
48	Pendulum Leptogenesis. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2018**, 785, 184-190	4.2	3
47	Testing Modified Dark Matter with galaxy clusters: Does dark matter know about the cosmological constant?. *International Journal of Modern Physics A*, **2017**, 32, 1750108	1.2	9
46	The 750 GeV diphoton excess in unified SU(2)L □SU(2)R □SU(4) models from noncommutative geometry. *Modern Physics Letters A*, **2016**, 31, 1650101	1.3	9
45	Pati□Salam unification from noncommutative geometry and the TeV-scale WR boson. *International Journal of Modern Physics A*, **2016**, 31, 1550223	1.2	21
44	On the physics of the minimal length: The question of gauge invariance. *International Journal of Modern Physics A*, **2016**, 31, 1630012	1.2	4
43	Higgs mass, superconnections, and the TeV-scale left-right symmetric model. *Physical Review D*, **2015**, 91,	4.9	15
42	Position and momentum uncertainties of a particle in a V-shaped potential under the minimal length uncertainty relation. *International Journal of Modern Physics A*, **2015**, 30, 1550206	1.2	2
41	Running of oscillation parameters in matter with flavor-diagonal non-standard interactions of the neutrino. *Journal of High Energy Physics*, **2015**, 2015, 1	5.4	5
40	Analytical approximation of the neutrino oscillation matter effects at large □13. *Journal of High Energy Physics*, **2014**, 2014, 1	5.4	22

39	QUANTUM SYSTEMS BASED UPON GALOIS FIELDS FROM SUB-QUANTUM TO SUPER-QUANTUM CORRELATIONS. *International Journal of Modern Physics A*, **2014**, 29, 1430006	1.2	3
38	Quantum ${{mathbb{F}}_{{rm un}}}$: theq= 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	3
37	The Higgs mass and the emergence of new physics. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2013**, 724, 301-305	4.2	11
36	GALOIS FIELD QUANTUM MECHANICS. *Modern Physics Letters B*, **2013**, 27, 1350064	1.6	8
35	Spin and rotations in Galois field quantum mechanics. *Journal of Physics A: Mathematical and Theoretical*, **2013**, 46, 065304	2	3
34	IS QUANTUM GRAVITY A SUPER-QUANTUM THEORY?. *International Journal of Modern Physics D*, **2013**, 22, 1342025	2.2	
33	Biorthogonal quantum mechanics: super-quantum correlations and expectation values without definite probabilities. *Journal of Physics A: Mathematical and Theoretical*, **2013**, 46, 485306	2	1
32	Constraining non-standard interactions of the neutrino with Borexino. *Journal of High Energy Physics*, **2012**, 2012, 1	5.4	16
31	Some mutant forms of quantum mechanics **2012**,		1
30	Position and momentum uncertainties of the normal and inverted harmonic oscillators under the minimal length uncertainty relation. *Physical Review D*, **2011**, 84,	4.9	28
29	Bell's Inequalities, Superquantum Correlations, and String Theory. *Advances in High Energy Physics*, **2011**, 2011, 1-11	1	2
28	On the Minimal Length Uncertainty Relation and the Foundations of String Theory. *Advances in High Energy Physics*, **2011**, 2011, 1-30	1	28
27	Ratchet Model of Baryogenesis **2011**,		3
26	QUANTUM GRAVITY, DYNAMICAL ENERGY MOMENTUM SPACE AND VACUUM ENERGY. *Modern Physics Letters A*, **2010**, 25, 2947-2954	1.3	19
25	Future constraints on and from lepton universality. *Journal of Physics: Conference Series*, **2008**, 136, 042045	0.3	
24	Leptonic CP violation search and the ambiguity of h312. *Physical Review D*, **2006**, 73,	4.9	3
23	Quantum gravity, torsion, parity violation, and all that. *Physical Review D*, **2005**, 72,	4.9	124
22	Hydrogen-atom spectrum under a minimal-length hypothesis. *Physical Review A*, **2005**, 72,	2.6	126

21	NuTeV anomaly, lepton universality, and nonuniversal neutrino-gauge couplings. *Physical Review D*, **2004**, 70,	4.9	37
20	Quark-lepton unification and lepton flavor nonconservation from a TeV-scale seesaw neutrino mass texture. *Physical Review D*, **2003**, 68,	4.9	17
19	NuTeV anomaly, neutrino mixing, and a heavy Higgs boson. *Physical Review D*, **2003**, 67,	4.9	30
18	Effect of the minimal length uncertainty relation on the density of states and the cosmological constant problem. *Physical Review D*, **2002**, 65,	4.9	248
17	Short distance versus long distance physics: The classical limit of the minimal length uncertainty relation. *Physical Review D*, **2002**, 66,	4.9	154
16	Exact solution of the harmonic oscillator in arbitrary dimensions with minimal length uncertainty relations. *Physical Review D*, **2002**, 65,	4.9	248
15	Constraints on gauged B□L□and related theories. *Physical Review D*, **2001**, 63,	4.9	12
14	Constraints on two-Higgs-doublet models at large tan□from W and Z decays. *Physical Review D*, **2000**, 62,	4.9	13
13	Constraints on R-parity violating couplings from CERN LEP and SLAC SLD hadronic observables. *Physical Review D*, **2000**, 62,	4.9	20
12	Constraints on R-parity violating couplings from lepton universality. *Physical Review D*, **2000**, 61,	4.9	20
11	Analytic continuation by duality estimation of the S parameter. *Physical Review D*, **2000**, 61,	4.9	15
10	Universal torsion-induced interaction from large extra dimensions. *Physical Review Letters*, **2000**, 85, 3765-8	7.4	21
9	Constraints on top-color assisted technicolor models from vertex corrections. *Physical Review D*, **1999**, 60,	4.9	45
8	Predictions of mb/m□and mt in an asymptotically nonfree theory. *Physical Review D*, **1997**, 56, 1589-1597	4.9	5
7	ACD estimation of the S-parameter revisited. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1997**, 401, 287-293	4.2	1
6	Estimation of oblique electroweak corrections. *Physical Review D*, **1992**, 46, 381-409	4.9	1205
5	Jackiw-Johnson sum rule for dynamical symmetry breaking. *Physical Review D*, **1990**, 41, 3192-3196	4.9	3
4	New constraint on a strongly interacting Higgs sector. *Physical Review Letters*, **1990**, 65, 964-967	7.4	1256

3	Analytical and numerical study of the Schwinger-Dyson equation with four-fermion coupling. *Physical Review D*, **1989**, 40, 2697-2707	4.9	52
2	Higher mass scales and mass hierarchies. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1989**, 220, 223-228	4.2	120
1	High energy isospin breaking in technicolor theories. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1989**, 232, 211-216	4.2	35