

Koichi Hamaguchi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4488785/publications.pdf>

Version: 2024-02-01

103
papers

4,326
citations

94433

37
h-index

110387

64
g-index

103
all docs

103
docs citations

103
times ranked

4775
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravitino dark matter in R-parity breaking vacua. Journal of High Energy Physics, 2007, 2007, 037-037.	4.7	230
2	Leptogenesis in inflaton decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 464, 12-18.	4.1	187
3	Leptogenesis from an \tilde{A}^t -dominated early universe. Physical Review D, 2002, 65, .	4.7	175
4	Supersymmetric Standard Model from the Heterotic String. Physical Review Letters, 2006, 96, 121602.	7.8	175
5	Moduli-Induced Gravitino Problem. Physical Review Letters, 2006, 96, 211301.	7.8	174
6	Leptogenesis in an inflationary universe. Physical Review D, 2000, 61, .	4.7	153
7	Flaxion: a minimal extension to solve puzzles in the standard model. Journal of High Energy Physics, 2017, 2017, 1.	4.7	134
8	Supersymmetric Standard Model from the heterotic string (II). Nuclear Physics B, 2007, 785, 149-209.	2.5	123
9	Higgsino and wino dark matter from Q-ball decay in Affleck-Dine baryogenesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 525, 143-149.	4.1	119
10	Supergravity at colliders. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 588, 90-98.	4.1	118
11	Nonthermal dark matter via Affleck-Dine baryogenesis and its detection possibility. Physical Review D, 2002, 66, .	4.7	115
12	Stau-catalyzed 6Li production in big-bang nucleosynthesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 650, 268-274.	4.1	99
13	Study of late decaying charged particles at future colliders. Physical Review D, 2004, 70, .	4.7	92
14	Moduli/inflaton mixing with supersymmetry-breaking field. Physical Review D, 2006, 74, .	4.7	91
15	Cosmological gravitino problem in gauge-mediated supersymmetry breaking models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 490, 136-146.	4.1	86
16	Leptogenesis with almost degenerate Majorana neutrinos. Physical Review D, 2002, 65, .	4.7	85
17	Signatures of axinos and gravitinos at colliders. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 617, 99-111.	4.1	79
18	Constraints on hidden photon models from electron $g-2$ and hydrogen spectroscopy. Physical Review D, 2012, 86, .	4.7	78

#	ARTICLE	IF	CITATIONS
19	Probing Bino contribution to muon $g_{\mu}^{\prime 2}$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	72
20	Dilaton destabilization at high temperature. Nuclear Physics B, 2004, 699, 292-308.	2.5	67
21	Limit on the axion decay constant from the cooling neutron star in Cassiopeia A. Physical Review D, 2018, 98, .	4.7	64
22	Prospects to study a long-lived charged next lightest supersymmetric particle at the LHC. Journal of High Energy Physics, 2007, 2007, 046-046.	4.7	63
23	Cosmic ray positron and electron excess from hidden-fermion dark matter decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 673, 247-250.	4.1	59
24	Muon $g_{\mu}^{\prime 2}$ vs LHC in supersymmetric models. Journal of High Energy Physics, 2014, 2014, 1.	4.7	58
25	Dual models of gauge unification in various dimensions. Nuclear Physics B, 2005, 712, 139-156.	2.5	55
26	Supersymmetric interpretation of the muon $g_{\mu}^{\prime 2}$ anomaly. Journal of High Energy Physics, 2021, 2021, 1.	4.7	52
27	Reheating-temperature independence of cosmological baryon asymmetry in Affleck-Dine leptogenesis. Physical Review D, 2001, 63, .	4.7	51
28	Predictions for the neutrino parameters in the minimal gauged $U(1)_{L_{\mu} - L_{\tau}}$ $U(1)_{L_{1/4} - L_{3/2}}$ model. European Physical Journal C, 2017, 77, 1.	3.9	49
29	Affleck-Dine leptogenesis with an ultralight neutrino. Physical Review D, 2000, 62, .	4.7	47
30	Decaying dark matter baryons in a composite messenger model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 674, 299-302.	4.1	46
31	Seesaw Neutrinos from the Heterotic String. Physical Review Letters, 2007, 99, 021601.	7.8	45
32	Higgs mass and muon anomalous magnetic moment in supersymmetric models with vectorlike matters. Physical Review D, 2011, 84, .	4.7	45
33	Superheavy dark matter with discrete gauge symmetries. Physical Review D, 1998, 58, .	4.7	44
34	Curvatons in supersymmetric models. Physical Review D, 2004, 69, .	4.7	44
35	Dark matter heating vs. rotochemical heating in old neutron stars. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 484-489.	4.1	42
36	Measuring Lifetimes of Long-Lived Charged Massive Particles Stopped in LHC Detectors. Physical Review Letters, 2009, 103, 141803.	7.8	39

#	ARTICLE	IF	CITATIONS
37	Minimal gauged $U(1)$ models driven into a corner. <i>Physical Review D</i> , 2019, 99, . Gauge couplings at high temperature and the relic gravitino abundance. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003, 574, 156-161.	4.7	39
38	Complexified Starobinsky inflation in supergravity in the light of recent BICEP2 result. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 733, 305-308.	4.1	37
39	Maximal temperature in flux compactifications. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 004-004.	5.4	36
40	Higgs mass, muon $g-2$, and LHC prospects in gauge mediation models with vectorlike matters. <i>Physical Review D</i> , 2012, 85, .	4.7	35
41	Democratic (s)fermions and lepton flavor violation. <i>Physical Review D</i> , 2003, 68, .	4.7	34
42	AMS-02 antiprotons from annihilating or decaying dark matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 747, 523-528.	4.1	34
43	The swampland conjecture and the Higgs expectation value. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	32
44	Long lived superheavy dark matter with discrete gauge symmetries. <i>Physical Review D</i> , 1999, 59, .	4.7	31
45	Lepton flavor violation and cosmological constraints on R-parity violation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 032-032.	5.4	30
46	Long-lived superheavy particles in dynamical supersymmetry-breaking models in supergravity. <i>Physical Review D</i> , 1999, 60, .	4.7	28
47	Prospects for Higgs- and Z -resonant neutralino dark matter. <i>Physical Review D</i> , 2016, 93, .	4.7	28
48	The gravitino in gaugino mediation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 632, 366-370.	4.1	26
49	Composite messenger baryon as a cold dark matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 654, 110-112.	4.1	26
50	Probing minimal SUSY scenarios in the light of muon $g-2$ and dark matter. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	26
51	Isospin-violating dark matter with colored mediators. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	25
52	Muon $g-2$ vs LHC Run 2 in supersymmetric models. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	25
53	Supersymmetric seesaw model for the (1+3)-scheme of neutrino masses. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 497, 259-264.	4.1	24

#	ARTICLE	IF	CITATIONS
55	Higgs mass and muon anomalous magnetic moment in the U(1)- extended MSSM. Physical Review D, 2012, 85, .	4.7	23
56	Affleck-Dine baryogenesis and leptogenesis with a gauged U(1) $B-L$. Physical Review D, 2001, 64, .	4.7	22
57	Eluding the BBN constraints on the stable gravitino. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 124-126.	4.1	21
58	Vacuum stability bound on extended GMSB models. Journal of High Energy Physics, 2012, 2012, 1.	4.7	20
59	Axino dark matter with R-parity violation and 130 GeV gamma-ray line. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 721, 111-117.	4.1	19
60	Supersymmetric fluxion. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
61	Probing lepton flavour violation in slepton NLSP scenarios. Journal of High Energy Physics, 2005, 2005, 028-028.	4.7	18
62	Dark matter model selection and the ATIC/PPB-BETS anomaly. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 015-015.	5.4	17
63	Cooling theory faced with old warm neutron stars: role of non-equilibrium processes with proton and neutron gaps. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5508-5523.	4.4	17
64	Low-scale gauge mediation and composite messenger dark matter. Journal of High Energy Physics, 2010, 2010, 1.	4.7	16
65	NMSSM in gauge-mediated SUSY breaking without domain wall problem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 100-106.	4.1	16
66	Gauge mediation models with vectorlike matters at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
67	Testing the minimal direct gauge mediation at the LHC. Physical Review D, 2014, 90, .	4.7	16
68	Diphoton excess and running couplings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 493-500.	4.1	16
69	Non-thermal gravitino dark matter in gauge mediation. Journal of High Energy Physics, 2009, 2009, 127-127.	4.7	15
70	Decaying gravitino dark matter and an upper bound on the gluino mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 677, 59-61.	4.1	15
71	Probing high reheating temperature scenarios at the LHC with long-lived staus. Journal of High Energy Physics, 2010, 2010, 1.	4.7	15
72	Stau kinks at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	15

#	ARTICLE	IF	CITATIONS
73	Boltzmann equation for non-equilibrium particles and its application to non-thermal dark matter production. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	14
74	Reconstructing supersymmetric contribution to muon anomalous magnetic dipole moment at ILC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 728, 274-281.	4.1	14
75	Gravitino/axino as decaying dark matter and cosmological tensions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 772, 415-419.	4.1	14
76	Leptogenesis via the LHu flat direction with a gauged $U(1)_{B-L}$. <i>Physical Review D</i> , 2002, 65, .	4.7	12
77	Determining the mass for an ultralight gravitino at LHC. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 663, 86-94.	4.1	11
78	Reconstruction of vectorlike top partner from fully hadronic final states. <i>Physical Review D</i> , 2014, 90, .	4.7	11
79	Predictions on the neutrinoless double beta decay from the leptogenesis via the LHu flat direction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 538, 107-114.	4.1	10
80	A measurement of neutralino mass at the LHC in light gravitino scenarios. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 666, 57-61.	4.1	10
81	Atomic form factors and inverse Primakoff scattering of axion. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 815, 136174.	4.1	10
82	Leptogenesis in the minimal gauged $U(1)_{L/4} \times U(1)_{B-L}$ model and the sign of the cosmological baryon asymmetry. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 013-013.	5.4	10
83	Supernova-scope for the direct search of Supernova axions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 059-059.	5.4	10
84	Determining the mass for a light gravitino. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 651, 44-48.	4.1	9
85	R-symmetric flipped $SU(5)$. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	9
86	Cosmological constraint on the Zee model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 519, 243-248.	4.1	6
87	Supersymmetric inflation of dynamical origin. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 662, 208-212.	4.1	6
88	Strongly interacting gauge mediation at the LHC. <i>Journal of High Energy Physics</i> , 2008, 2008, 107-107.	4.7	6
89	Axion quality problem alleviated by nonminimal coupling to gravity. <i>Physical Review D</i> , 2022, 105, .	4.7	6
90	Effect of modifying histidine residues on the action of <i>Bacillus amyloliquefaciens</i> and barley-malt α -amylases. <i>Carbohydrate Research</i> , 1994, 257, 155-161.	2.3	5

#	ARTICLE	IF	CITATIONS
91	A solution to the $\hat{1}/4/B\hat{1}/4$ problem in gauge mediation with hidden gauge symmetry. Journal of High Energy Physics, 2012, 2012, 1.	4.7	5
92	Affleck-Dine leptogenesis with varying Peccei-Quinn scale. Journal of High Energy Physics, 2017, 2017, 1.	4.7	5
93	Inverse problem for the propagation equation of cosmic-ray electrons/positrons from dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 172-178.	4.1	4
94	Moduli oscillation induced by reheating. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 024-024.	5.4	4
95	Soft leptogenesis and gravitino dark matter in gauge mediation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 694, 398-401.	4.1	3
96	Nonanomalous discrete R-symmetry and a light gravitino. Physical Review D, 2003, 67, .	4.7	2
97	From the 750 GeV diphoton resonance to multilepton excesses. Physical Review D, 2016, 94, .	4.7	2
98	Scalar decay into gravitinos in the presence of D-term supersymmetry breaking. Physical Review D, 2012, 86, .	4.7	1
99	How to decontaminate overlapping fat jets. Physical Review D, 2015, 92, .	4.7	1
100	Probing the origin of 750 GeV diphoton excess with the precision measurements at the ILC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 759, 575-582.	4.1	1
101	Models of a 750 GeV quarkonium and the LHC excesses. Physical Review D, 2016, 94, .	4.7	1
102	SOFT LEPTOGENESIS AND GRAVITINO DARK MATTER IN GAUGE MEDIATION. International Journal of Modern Physics D, 2011, 20, 1533-1538.	2.1	0
103	Studying squark mass spectrum through gluino decay at 100 TeV future hadron colliders. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 817, 136332.	4.1	0