

Koichi Hamaguchi

List of Publications by Year in descending order

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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	Axion quality problem alleviated by nonminimal coupling to gravity. <i>Physical Review D</i> , 2022, 105, .	4.7	6
2	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
3	Studying squark mass spectrum through gluino decay at 100 TeV future hadron colliders. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 817, 136332.	4.1	0
4	Supersymmetric interpretation of the muon $g - 2$ anomaly. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	52
5	R-symmetric flipped SU(5). <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	9
6	Cooling theory faced with old warm neutron stars: role of non-equilibrium processes with proton and neutron gaps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5508-5523.	4.4	17
7	Muon $g - 2$ vs LHC Run 2 in supersymmetric models. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	25
8	Leptogenesis in the minimal gauged U(1) $L_{1/4}$ \tilde{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
9	Supernova-scope for the direct search of Supernova axions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 059-059.	5.4	10
10	Dark matter heating vs. rotochemical heating in old neutron stars. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 795, 484-489.	4.1	42
11	Minimal gauged $U(1)_{L_{1/4}}$ models driven into a corner. <i>Physical Review D</i> , 2019, 99, .	4.7	39
12	Moduli oscillation induced by reheating. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 024-024.	5.4	4
13	The swampland conjecture and the Higgs expectation value. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	32
14	Limit on the axion decay constant from the cooling neutron star in Cassiopeia A. <i>Physical Review D</i> , 2018, 98, .	4.7	64
15	Supersymmetric flaxion. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	19
16	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
17	Affleck-Dine leptogenesis with varying Peccei-Quinn scale. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	5
18	Flaxion: a minimal extension to solve puzzles in the standard model. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	134

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19	Probing minimal SUSY scenarios in the light of muon $g-2$ and dark matter. Journal of High Energy Physics, 2017, 2017, 1.	4.7	26
20	Predictions for the neutrino parameters in the minimal gauged $U(1)_{L_\mu-L_\tau}$ $U(1)_{L_1-L_2}$ model. European Physical Journal C, 2017, 77, 1.	3.9	49
21	From the 750 GeV diphoton resonance to multilepton excesses. Physical Review D, 2016, 94, .	4.7	2
22	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
23	Prospects for Higgs- and Z -resonant neutralino dark matter. Physical Review D, 2016, 93, .	4.7	28
24	Models of a 750 GeV quarkonium and the LHC excesses. Physical Review D, 2016, 94, .	4.7	1
25	Diphoton excess and running couplings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 757, 493-500.	4.1	16
26	AMS-02 antiprotons from annihilating or decaying dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 523-528.	4.1	34
27	How to decontaminate overlapping fat jets. Physical Review D, 2015, 92, .	4.7	1
28	Testing the minimal direct gauge mediation at the LHC. Physical Review D, 2014, 90, .	4.7	16
29	Reconstruction of vectorlike top partner from fully hadronic final states. Physical Review D, 2014, 90, .	4.7	11
30	Muon $g-2$ vs LHC in supersymmetric models. Journal of High Energy Physics, 2014, 2014, 1.	4.7	58
31	Isospin-violating dark matter with colored mediators. Journal of High Energy Physics, 2014, 2014, 1.	4.7	25
32	Reconstructing supersymmetric contribution to muon anomalous magnetic dipole moment at ILC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 728, 274-281.	4.1	14
33	Complexified Starobinsky inflation in supergravity in the light of recent BICEP2 result. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 305-308.	4.1	37
34	Gauge mediation models with vectorlike matters at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
35	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
36	Probing Bino contribution to muon $g-2$. Journal of High Energy Physics, 2013, 2013, 1.	4.7	72

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37	Constraints on hidden photon models from electron $g-2$ and hydrogen spectroscopy. Physical Review D, 2012, 86, .	4.7	78
38	Scalar decay into gravitinos in the presence of D-term supersymmetry breaking. Physical Review D, 2012, 86, .	4.7	1
39	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
40	Higgs mass and muon anomalous magnetic moment in the U(1)- extended MSSM. Physical Review D, 2012, 85, .	4.7	23
41	Higgs mass, muon $g-2$, and LHC prospects in gauge mediation models with vectorlike matters. Physical Review D, 2012, 85, .	4.7	35
42	Vacuum stability bound on extended GMSB models. Journal of High Energy Physics, 2012, 2012, 1.	4.7	20
43	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
44	Boltzmann equation for non-equilibrium particles and its application to non-thermal dark matter production. Journal of High Energy Physics, 2012, 2012, 1.	4.7	14
45	Stau kinks at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	15
46	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
47	Higgs mass and muon anomalous magnetic moment in supersymmetric models with vectorlike matters. Physical Review D, 2011, 84, .	4.7	45
48	SOFT LEPTOGENESIS AND GRAVITINO DARK MATTER IN GAUGE MEDIATION. International Journal of Modern Physics D, 2011, 20, 1533-1538.	2.1	0
49	Low-scale gauge mediation and composite messenger dark matter. Journal of High Energy Physics, 2010, 2010, 1.	4.7	16
50	Probing high reheating temperature scenarios at the LHC with long-lived staus. Journal of High Energy Physics, 2010, 2010, 1.	4.7	15
51	Lepton flavor violation and cosmological constraints on R-parity violation. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 032-032.	5.4	30
52	Non-thermal gravitino dark matter in gauge mediation. Journal of High Energy Physics, 2009, 2009, 127-127.	4.7	15
53	Dark matter model selection and the ATIC/PPB-BETS anomaly. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 015-015.	5.4	17
54	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

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55	Decaying dark matter baryons in a composite messenger model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 674, 299-302.	4.1	46
56	Decaying gravitino dark matter and an upper bound on the gluino mass. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 677, 59-61.	4.1	15
57	Inverse problem for the propagation equation of cosmic-ray electrons/positrons from dark matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 680, 172-178.	4.1	4
58	Measuring Lifetimes of Long-Lived Charged Massive Particles Stopped in LHC Detectors. <i>Physical Review Letters</i> , 2009, 103, 141803.	7.8	39
59	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
60	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
61	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
62	Strongly interacting gauge mediation at the LHC. <i>Journal of High Energy Physics</i> , 2008, 2008, 107-107.	4.7	6
63	Seesaw Neutrinos from the Heterotic String. <i>Physical Review Letters</i> , 2007, 99, 021601.	7.8	45
64	Gravitino dark matter in R-parity breaking vacua. <i>Journal of High Energy Physics</i> , 2007, 2007, 037-037.	4.7	230
65	Prospects to study a long-lived charged next lightest supersymmetric particle at the LHC. <i>Journal of High Energy Physics</i> , 2007, 2007, 046-046.	4.7	63
66	Supersymmetric Standard Model from the heterotic string (II). <i>Nuclear Physics B</i> , 2007, 785, 149-209.	2.5	123
67	Stau-catalyzed ${}^6\text{Li}$ production in big-bang nucleosynthesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007, 650, 268-274.	4.1	99
68	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
69	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
70	Moduli/inflaton mixing with supersymmetry-breaking field. <i>Physical Review D</i> , 2006, 74, .	4.7	91
71	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
72	Eluding the BBN constraints on the stable gravitino. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 643, 124-126.	4.1	21

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73	Moduli-Induced Gravitino Problem. <i>Physical Review Letters</i> , 2006, 96, 211301.	7.8	174
74	Supersymmetric Standard Model from the Heterotic String. <i>Physical Review Letters</i> , 2006, 96, 121602.	7.8	175
75	Signatures of axinos and gravitinos at colliders. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 617, 99-111.	4.1	79
76	Maximal temperature in flux compactifications. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 004-004.	5.4	36
77	Probing lepton flavour violation in slepton NLSP scenarios. <i>Journal of High Energy Physics</i> , 2005, 2005, 028-028.	4.7	18
78	Dual models of gauge unification in various dimensions. <i>Nuclear Physics B</i> , 2005, 712, 139-156.	2.5	55
79	Study of late decaying charged particles at future colliders. <i>Physical Review D</i> , 2004, 70, .	4.7	92
80	Curvatons in supersymmetric models. <i>Physical Review D</i> , 2004, 69, .	4.7	44
81	Supergravity at colliders. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 588, 90-98.	4.1	118
82	Dilaton destabilization at high temperature. <i>Nuclear Physics B</i> , 2004, 699, 292-308.	2.5	67
83	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.	4.1	37
84	Nonanomalous discrete R-symmetry and a light gravitino. <i>Physical Review D</i> , 2003, 67, .	4.7	2
85	Democratic (s)fermions and lepton flavor violation. <i>Physical Review D</i> , 2003, 68, .	4.7	34
86	Leptogenesis with almost degenerate Majorana neutrinos. <i>Physical Review D</i> , 2002, 65, .	4.7	85
87	Leptogenesis via the LHuflat direction with a gauged $U(1)_{B-L}$. <i>Physical Review D</i> , 2002, 65, .	4.7	12
88	Leptogenesis from an \tilde{A}' -dominated early universe. <i>Physical Review D</i> , 2002, 65, .	4.7	175
89	Nonthermal dark matter via Affleck-Dine baryogenesis and its detection possibility. <i>Physical Review D</i> , 2002, 66, .	4.7	115
90	Higgsino and wino dark matter from Q-ball decay in Affleck-Dine baryogenesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 525, 143-149.	4.1	119

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91	Predictions on the neutrinoless double beta decay from the leptogenesis via the LHu flat direction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 538, 107-114.	4.1	10
92	Supersymmetric seesaw model for the (1+3)-scheme of neutrino masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 497, 259-264.	4.1	24
93	Cosmological constraint on the Zee model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 519, 243-248.	4.1	6
94	Reheating-temperature independence of cosmological baryon asymmetry in Affleck-Dine leptogenesis. Physical Review D, 2001, 63, .	4.7	51
95	Affleck-Dine baryogenesis and leptogenesis with a gauged $U(1)_{B-L}$. Physical Review D, 2001, 64, .	4.7	22
96	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
97	Leptogenesis in an inflationary universe. Physical Review D, 2000, 61, .	4.7	153
98	Affleck-Dine leptogenesis with an ultralight neutrino. Physical Review D, 2000, 62, .	4.7	47
99	Long-lived superheavy particles in dynamical supersymmetry-breaking models in supergravity. Physical Review D, 1999, 60, .	4.7	28
100	Long lived superheavy dark matter with discrete gauge symmetries. Physical Review D, 1999, 59, .	4.7	31
101	Leptogenesis in inflaton decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 464, 12-18.	4.1	187
102	Superheavy dark matter with discrete gauge symmetries. Physical Review D, 1998, 58, .	4.7	44
103	Effect of modifying histidine residues on the action of <i>Bacillus amyloliquefaciens</i> and barley-malt α -amylases. Carbohydrate Research, 1994, 257, 155-161.	2.3	5