

# Kimmo Kainulainen

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

2,966  
citations

186265

28  
h-index

182427

51  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1766  
citing authors

#	ARTICLE	IF	CITATIONS
1	Baryogenesis and gravity waves from a UV-completed electroweak phase transition. <i>Physical Review D</i> , 2021, 103, .	4.7	35
2	Flavour mixing transport theory and resonant leptogenesis. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	9
3	CP-violating transport theory for electroweak baryogenesis with thermal corrections. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 042.	5.4	9
4	Non-equilibrium dynamics of a scalar field with quantum backreaction. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	6
5	Can primordial black holes as all dark matter explain fast radio bursts?. <i>Physical Review D</i> , 2021, 104, .	4.7	8
6	Electroweak baryogenesis at high bubble wall velocities. <i>Physical Review D</i> , 2020, 101, .	4.7	62
7	Quantum transport and the phase space structure of the Wightman functions. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	9
8	Despicable dark relics: generated by gravity with unconstrained masses. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 005-005.	5.4	42
9	On the validity of perturbative studies of the electroweak phase transition in the Two Higgs Doublet model. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	71
10	Electroweak baryogenesis from a dark sector. <i>Physical Review D</i> , 2017, 95, .	4.7	36
11	Baryogenesis in the two doublet and inert singlet extension of the Standard Model. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 057-057.	5.4	27
12	Isocurvature constraints on portal couplings. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 022-022.	5.4	65
13	Self-interacting dark matter and cosmology of a light scalar mediator. <i>Physical Review D</i> , 2016, 93, .	4.7	40
14	A model for dark matter, naturalness and a complete gauge unification. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 034-034.	5.4	4
15	Dark matter from unification. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 036-036.	5.4	2
16	Electroweak baryogenesis and dark matter from a singlet Higgs. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 012-012.	5.4	188
17	Update on scalar singlet dark matter. <i>Physical Review D</i> , 2013, 88, .	4.7	408
18	Improved electroweak phase transition with subdominant inert doublet dark matter. <i>Physical Review D</i> , 2013, 87, .	4.7	37

#	ARTICLE	IF	CITATIONS
19	Flavoured quantum Boltzmann equations from cQPA. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	48
20	Flavour-coherent propagators and Feynman rules: covariant cQPA formulation. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	17
21	Electroweak baryogenesis in two Higgs doublet models and B meson anomalies. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	144
22	Accurate modeling of weak lensing with the stochastic gravitational lensing method. <i>Physical Review D</i> , 2011, 83, .	4.7	40
23	Weak lensing observables in the halo model. <i>Physical Review D</i> , 2011, 84, .	4.7	21
24	Coherent quasiparticle approximation (cQPA) and nonlocal coherence. <i>Journal of Physics: Conference Series</i> , 2010, 220, 012007.	0.4	13
25	Coherent quantum Boltzmann equations from cQPA. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	28
26	Large-Scale Inhomogeneities May Improve the Cosmic Concordance of Supernovae. <i>Physical Review Letters</i> , 2010, 105, 121302.	7.8	38
27	Impact of cosmic inhomogeneities on SNe observations. , 2010, , .		2
28	Weakly interacting dark matter from the minimal walking technicolor. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 029-029.	5.4	14
29	Naturality, unification, and dark matter. <i>Physical Review D</i> , 2010, 82, .	4.7	10
30	New stochastic approach to cumulative weak lensing. <i>Physical Review D</i> , 2009, 80, .	4.7	46
31	Kinetic theory for scalar fields with nonlocal quantum coherence. <i>Journal of High Energy Physics</i> , 2009, 2009, 119-119.	4.7	22
32	Kinetic transport theory with quantum coherence. <i>Nuclear Physics A</i> , 2009, 820, 203c-206c.	1.5	9
33	Towards a kinetic theory for fermions with quantum coherence. <i>Nuclear Physics B</i> , 2009, 810, 389-426.	2.5	27
34	Supernovae observations in a $\Lambda$ -universe with a local void. <i>Physical Review D</i> , 2009, 80, .	4.7	25
35	Quantum kinetic theory for fermions in temporally varying backgrounds. <i>Journal of High Energy Physics</i> , 2008, 2008, 032-032.	4.7	25
36	Weakly interacting dark matter particle of a minimal technicolor theory. <i>Physical Review D</i> , 2007, 75, .	4.7	48

#	ARTICLE	IF	CITATIONS
37	Spherically symmetric spacetimes in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mo stretchy="false"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle R \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle T_j$ ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 732 Td (stretchy="false")	4.7	86
38	Dark energy, scalar-tensor gravity, and large extra dimensions. Physical Review D, 2006, 73, .	4.7	12
39	Semiclassical force for electroweak baryogenesis: Three-dimensional derivation. Physical Review D, 2002, 66, .	4.7	56
40	First principle derivation of semiclassical force for electroweak baryogenesis. Journal of High Energy Physics, 2001, 2001, 031-031.	4.7	83
41	Supersymmetric electroweak baryogenesis. Journal of High Energy Physics, 2000, 2000, 018-018.	4.7	186
42	New Source for Electroweak Baryogenesis in the Minimal Supersymmetric Standard Model. Physical Review Letters, 2000, 85, 5519-5522.	7.8	87
43	Supersymmetric electroweak baryogenesis in the WKB approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 417, 79-86.	4.1	131
44	Supersymmetric electroweak phase transition: Dimensional reduction versus effective potential. Nuclear Physics B, 1998, 510, 88-102.	2.5	17
45	Nucleosynthesis limits on the mass of long lived tau and muon neutrinos. Astroparticle Physics, 1997, 6, 169-185.	4.3	10
46	Supersymmetric electroweak phase transition: Beyond perturbation theory. Nuclear Physics B, 1996, 482, 73-91.	2.5	104
47	Neutrino annihilation in hot plasma. Nuclear Physics B, 1992, 374, 392-404.	2.5	48
48	Stringent cosmological bounds on inert neutrino mixing. Nuclear Physics B, 1992, 373, 498-528.	2.5	213
49	Limits on heavy WIMP masses and interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 264, 367-372.	4.1	16
50	Light singlet neutrinos and the primordial nucleosynthesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 244, 191-195.	4.1	144