

Tommi Markkanen

List of Publications by Year in descending order

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36
papers

1,470
citations

430754

18
h-index

345118

36
g-index

36
all docs

36
docs citations

36
times ranked

1073
citing authors

#	ARTICLE	IF	CITATIONS
1	Observations of ultrafine aerosol particle formation and growth in boreal forest. <i>Geophysical Research Letters</i> , 1997, 24, 1219-1222.	1.5	300
2	Spacetime Curvature and the Higgs Stability During Inflation. <i>Physical Review Letters</i> , 2014, 113, 211102.	2.9	156
3	Footprint Analysis For Measurements Over A Heterogeneous Forest. <i>Boundary-Layer Meteorology</i> , 2000, 97, 137-166.	1.2	151
4	Spacetime Curvature and Higgs Stability after Inflation. <i>Physical Review Letters</i> , 2015, 115, 241301.	2.9	116
5	Cosmological Aspects of Higgs Vacuum Metastability. <i>Frontiers in Astronomy and Space Sciences</i> , 2018, 5, .	1.1	79
6	Quantum corrections to quartic inflation with a non-minimal coupling: metric vs. Palatini. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 029-029.	1.9	72
7	A simple method for one-loop renormalization in curved space-time. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 045-045.	1.9	61
8	Non-minimal gravitational reheating during kination. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 021-021.	1.9	57
9	The 1-loop effective potential for the Standard Model in curved spacetime. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	49
10	Despicable dark relics: generated by gravity with unconstrained masses. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 005-005.	1.9	42
11	Dark matter from gravitational particle production at reheating. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 008-008.	1.9	41
12	Spectator dark matter. <i>Physical Review D</i> , 2018, 98, .	1.6	39
13	Scalar correlation functions in de Sitter space from the stochastic spectral expansion. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 001-001.	1.9	31
14	Quantum corrections to scalar field dynamics in a slow-roll space-time. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	1.6	27
15	De Sitter stability and coarse graining. <i>European Physical Journal C</i> , 2018, 78, 97.	1.4	24
16	Massive scalar field evolution in de Sitter. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	21
17	Scalar correlation functions for a double-well potential in de Sitter space. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 049-049.	1.9	20
18	Quantum corrections to inflaton and curvaton dynamics. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 027-027.	1.9	19

#	ARTICLE	IF	CITATIONS
19	Inflation without quantum gravity. <i>Physical Review D</i> , 2015, 91, .	1.6	16
20	Decoherence can relax cosmic acceleration. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 026-026.	1.9	16
21	Primordial black holes from thermal inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 046-046.	1.9	16
22	Vacuum decay constraints on the Higgs curvature coupling from inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 077.	1.9	14
23	Curvature induced running of the cosmological constant. <i>Physical Review D</i> , 2015, 91, .	1.6	12
24	Renormalisation group improvement in the stochastic formalism. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 023-023.	1.9	12
25	Decoherence can relax cosmic acceleration: an example. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 022-022.	1.9	10
26	Narrowing the window of inflationary magnetogenesis. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 035-035.	1.9	10
27	Do metric fluctuations affect the Higgs dynamics during inflation?. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 026-026.	1.9	9
28	Renormalization of the inflationary perturbations revisited. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 001-001.	1.9	9
29	Dark energy as a remnant of inflation and electroweak symmetry breaking. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	9
30	Primordial dark matter from curvature induced symmetry breaking. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 002-002.	1.9	9
31	Light scalars on cosmological backgrounds. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	7
32	Vacuum stability in the early universe and the backreaction of classical gravity. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170115.	1.6	5
33	Novel mechanism for primordial perturbations in minimal extensions of the Standard Model. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	5
34	Horizon feedback inflation. <i>European Physical Journal C</i> , 2018, 78, 347.	1.4	4
35	Dark energy without fine tuning. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	1
36	Higgs-like spectator field as the origin of structure. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	1