

Hannu Antero Kurki-Suonio

List of Publications by Citations

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45
papers

2,614
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26
h-index

46
g-index

46
ext. papers

2,834
ext. citations

4.9
avg, IF

4.35
L-index

#	Paper	IF	Citations
45	Planck early results. I. The Planck mission. <i>Astronomy and Astrophysics</i> , 2011 , 536, A1	5.1	337
44	Planck 2013 results. XXIX. The Planck catalogue of Sunyaev-Zeldovich sources. <i>Astronomy and Astrophysics</i> , 2014 , 571, A29	5.1	324
43	Deflagrations and detonations as a mechanism of hadron bubble growth in supercooled quark-gluon plasmas. <i>Nuclear Physics B</i> , 1984 , 237, 477-501	2.8	191
42	Cosmological perturbations in the Palatini formulation of modified gravity. <i>Classical and Quantum Gravity</i> , 2006 , 23, 2355-2369	3.3	166
41	Bubble growth and droplet decay in the quark-hadron phase transition in the early Universe. <i>Physical Review D</i> , 1986 , 34, 1719-1738	4.9	141
40	Growth of bubbles in cosmological phase transitions. <i>Physical Review D</i> , 1994 , 49, 3854-3868	4.9	126
39	Big bang nucleosynthesis and the quark-hadron transition. <i>Astrophysical Journal</i> , 1990 , 353, 406	4.7	83
38	Planck early results. II. The thermal performance of Planck. <i>Astronomy and Astrophysics</i> , 2011 , 536, A2	5.1	78
37	Planck pre-launch status: The Planck-LFI programme. <i>Astronomy and Astrophysics</i> , 2010 , 520, A3	5.1	76
36	Correlated primordial perturbations in light of CMB and large scale structure data. <i>Physical Review D</i> , 2005 , 71,	4.9	75
35	Deflagration bubbles in the quark-hadron phase transition. <i>Nuclear Physics B</i> , 1985 , 255, 231-252	2.8	74
34	Limits on isocurvature fluctuations from Boomerang and MAXIMA. <i>Physical Review D</i> , 2000 , 62,	4.9	72
33	Planck pre-launch status: Expected LFI polarisation capability. <i>Astronomy and Astrophysics</i> , 2010 , 520, A8	5.1	67
32	Supersonic deflagrations in cosmological phase transitions. <i>Physical Review D</i> , 1995 , 51, 5431-5437	4.9	66
31	Baryon-number inhomogeneity generation in the cosmic quark-hadron phase transition. <i>Physical Review D</i> , 1988 , 37, 2104-2110	4.9	56
30	Inhomogeneous nucleosynthesis with neutron diffusion. <i>Physical Review D</i> , 1988 , 38, 1091-1099	4.9	55
29	Inflation from inhomogeneous initial data in a one-dimensional back-reacting cosmology. <i>Physical Review D</i> , 1987 , 35, 435-448	4.9	54

28	Large scale inhomogeneities from the QCD phase transition. <i>Physical Review D</i> , 1994 , 50, 3738-3745	4.9	51
27	Effect of small-scale baryon inhomogeneity on cosmic nucleosynthesis. <i>Physical Review D</i> , 1989 , 39, 1046-1053	4.9	50
26	Hints of isocurvature perturbations in the cosmic microwave background?. <i>Journal of Cosmology and Astroparticle Physics</i> , 2007 , 2007, 008-008	6.4	48
25	Inhomogeneous inflation: Numerical evolution. <i>Physical Review D</i> , 1993 , 48, 3611-3624	4.9	43
24	A maximum likelihood approach to the destripping technique. <i>Astronomy and Astrophysics</i> , 2004 , 428, 287-298	5.1	34
23	Constraining isocurvature fluctuations with the Planck Surveyor. <i>Physical Review D</i> , 2000 , 61,	4.9	32
22	Inhomogeneous big-bang nucleosynthesis in light of recent observations. <i>Physical Review D</i> , 1999 , 59,	4.9	32
21	Inhomogeneous inflation: The initial-value problem. <i>Physical Review D</i> , 1991 , 44, 3077-3086	4.9	31
20	Open and closed CDM isocurvature models contrasted with the CMB data. <i>Physical Review D</i> , 2002 , 65,	4.9	28
19	CMB spectrum in Cardassian models. <i>Physical Review D</i> , 2005 , 71,	4.9	25
18	Constraining antimatter domains in the early universe with big bang nucleosynthesis. <i>Physical Review Letters</i> , 2000 , 84, 3756-9	7.4	24
17	CONSTRAINTS ON SCALAR AND TENSOR PERTURBATIONS IN PHENOMENOLOGICAL AND TWO-FIELD INFLATION MODELS: BAYESIAN EVIDENCES FOR PRIMORDIAL ISOCURVATURE AND TENSOR MODES. <i>Astrophysical Journal</i> , 2012 , 753, 151	4.7	23
16	Big bang nucleosynthesis, matter-antimatter regions, extra relativistic species, and relic gravitational waves. <i>Physical Review D</i> , 2002 , 66,	4.9	20
15	Stochastic Isocurvature Baryon Fluctuations, Baryon Diffusion, and Primordial Nucleosynthesis. <i>Astrophysical Journal</i> , 1997 , 479, 31-39	4.7	20
14	Overproduction of 4He in strongly inhomogeneous $\Omega_b=1$ models of primordial nucleosynthesis. <i>Physical Review D</i> , 1990 , 42, 1047-1056	4.9	19
13	Antimatter regions in the early universe and big bang nucleosynthesis. <i>Physical Review D</i> , 2000 , 62,	4.9	13
12	Constraints on neutrino density and velocity isocurvature modes from WMAP-9 data. <i>Physical Review D</i> , 2013 , 88,	4.9	12
11	Inhomogeneous big bang nucleosynthesis and the high baryon density suggested by Boomerang and MAXIMA. <i>Physical Review D</i> , 2001 , 63,	4.9	12

10	Cosmic microwave background power spectrum estimation with the destripping technique. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004 , 353, 43-58	4-3	11
9	Prospects for observing subhorizon preinflation fluctuations in the cosmic microwave background. <i>Physical Review D</i> , 1991 , 44, 3072-3076	4-9	11
8	Diffusion coefficients and inhomogeneous big-bang nucleosynthesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992 , 289, 211-216	4-2	9
7	Anisotropy and cosmic nucleosynthesis of light isotopes including ${}^7\text{Li}$. <i>Physical Review D</i> , 1985 , 31, 1811-1814	4-14	7
6	Statistical constraints on the inflation effective potential from the COBE DMR results. <i>Physical Review D</i> , 1994 , 50, 5431-5434	4-9	5
5	Relation of redshift surveys to matter distribution in spherically symmetric dust universes. <i>Astrophysical Journal</i> , 1992 , 390, 5	4-7	5
4	Baryon inhomogeneity from the cosmic quark-hadron phase transition. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1991 , 24, 67-73		3
3	Primordial nucleosynthesis with horizon-scale curvature fluctuations. <i>Physical Review D</i> , 1991 , 43, 1087-1105	4-105	3
2	Alternative Solutions to Big Bang Nucleosynthesis. <i>Symposium - International Astronomical Union</i> , 2000 , 198, 25-34		2
1	Big Bang Nucleosynthesis Calculation. <i>Space Science Reviews</i> , 2002 , 100, 249-261	7-5	