Arthur Kosowsky

List of Publications by Year
in descending order

87 papers	9,279 citations	53794 45 h-index	54911 84 g-index
87 all docs	87 docs citations	87 times ranked	3915 citing authors

#	Article	IF	Citations
1	Statistics of cosmic microwave background polarization. Physical Review D, 1997, 55, 7368-7388.	4.7	773
2	The Simons Observatory: science goals and forecasts. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 056-056.	5.4	741
3	A Probe of Primordial Gravity Waves and Vorticity. Physical Review Letters, 1997, 78, 2058-2061.	7.8	661
4	Gravitational radiation from first-order phase transitions. Physical Review D, 1994, 49, 2837-2851.	4.7	593
5	Cosmological-parameter determination with microwave background maps. Physical Review D, 1996, 54, 1332-1344.	4.7	384
6	Gravitational radiation from colliding vacuum bubbles. Physical Review D, 1992, 45, 4514-4535.	4.7	365
7	Gravitational waves from first-order cosmological phase transitions. Physical Review Letters, 1992, 69, 2026-2029.	7.8	326
8	Gravitational radiation from colliding vacuum bubbles: Envelope approximation to many-bubble collisions. Physical Review D, 1993, 47, 4372-4391.	4.7	317
9	THE ATACAMA COSMOLOGY TELESCOPE: SUNYAEV-ZEL'DOVICH-SELECTED GALAXY CLUSTERS AT 148 GHz IN THE 2008 SURVEY. Astrophysical Journal, 2011, 737, 61.	4.5	234
10	CBR anisotropy and the running of the scalar spectral index. Physical Review D, 1995, 52, R1739-R1743.	4.7	219
11	The Atacama Cosmology Telescope: cosmological parameters from three seasons of data. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 060-060.	5.4	215
12	Faraday Rotation of Microwave Background Polarization by a Primordial Magnetic Field. Astrophysical Journal, 1996, 469, 1.	4.5	213
13	Gravitational radiation from cosmological turbulence. Physical Review D, 2002, 66, .	4.7	203
14	The Atacama Cosmology Telescope: temperature and gravitational lensing power spectrum measurements from three seasons of data. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 014-014.	5.4	194
15	Cosmic Microwave Background Polarization. Annals of Physics, 1996, 246, 49-85.	2.8	188
16	Evidence of Galaxy Cluster Motions with the Kinematic Sunyaev-Zelâ€™dovich Effect. Physical Review Letters, 2012, 109, 041101.	7.8	185
17	Microwave background signatures of a primordial stochastic magnetic field. Physical Review D, 2002, 65, .	4.7	176
18	Weighing the Universe with the Cosmic Microwave Background. Physical Review Letters, 1996, 76, 1007-1010.	7.8	160

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19	The Atacama Cosmology Telescope: a measurement of the Cosmic Microwave Background power spectra at 98 and 150 GHz. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 045-045.	5.4	148
20	Spectrum of gravitational radiation from primordial turbulence. Physical Review D, 2007, 76, .	4.7	142
21	Efficient cosmological parameter estimation from microwave background anisotropies. Physical Review D, 2002, 66, .	4.7	133
22	THECOSMICMICROWAVEBACKGROUND ANDPARTICLEPHYSICS. Annual Review of Nuclear and Particle Science, 1999, 49, 77-123.	10.2	129
23	The Atacama Cosmology Telescope. New Astronomy Reviews, 2003, 47, 939-943.	12.8	128
24	Faraday rotation of the cosmic microwave background polarization by a stochastic magnetic field. Physical Review D, 2005, 71, .	4.7	124
25	The Atacama Cosmology Telescope: CMB polarization at 200 < â„“ < 9000. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 007-007.	5.4	121
26	Evidence for Dark Energy from the Cosmic Microwave Background Alone Using the Atacama Cosmology Telescope Lensing Measurements. Physical Review Letters, 2011, 107, 021302.	7.8	118
27	Two-season Atacama Cosmology Telescope polarimeter lensing power spectrum. Physical Review D, 2017, 95, .	4.7	104
28	THE ATACAMA COSMOLOGY TELESCOPE: A MEASUREMENT OF THE PRIMORDIAL POWER SPECTRUM. Astrophysical Journal, 2012, 749, 90.	4.5	97
29	Evidence for the kinematic Sunyaev-Zelâ€™dovich effect with the Atacama Cosmology Telescope and velocity reconstruction from the Baryon Oscillation Spectroscopic Survey. Physical Review D, 2016, 93, .	4.7	90
30	Detectability of gravitational waves from phase transitions. Physical Review D, 2008, 78, .	4.7	88
31	Detectability of inflationary gravitational waves with microwave background polarization. Physical Review D, 1998, 57, 685-691.	4.7	87
32	Precision epoch of reionization studies with next-generation CMB experiments. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 010-010.	5.4	83
33	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. Astrophysical Journal, 2022, 926, 54.	4.5	79
34	Effect of Internal Flows on Sunyaevâ€Zeldovich Measurements of Cluster Peculiar Velocities. Astrophysical Journal, 2003, 587, 524-532.	4.5	75
35	Evidence of Lensing of the Cosmic Microwave Background by Dark Matter Halos. Physical Review Letters, 2015, 114, 151302.	7.8	70
36	Numerical simulations of gravitational waves from early-universe turbulence. Physical Review D, 2020, 102, .	4.7	70

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37	The Atacama Cosmology Telescope: a CMB lensing mass map over 2100 square degrees of sky and its cross-correlation with BOSS-CMASS galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 500, 2250-2263.	4.4	68
38	Minkowski functional description of microwave background Gaussianity. New Astronomy, 1998, 3, 75-99.	1.8	67
39	Cosmological parameters from pre-planck cosmic microwave background measurements. Physical Review D, 2013, 87, .	4.7	65
40	Faraday rotation limits on a primordial magnetic field from Wilkinson Microwave Anisotropy Probe five-year data. Physical Review D, 2009, 80, .	4.7	64
41	Atacama Cosmology Telescope: Component-separated maps of CMB temperature and the thermal Sunyaev-Zelâ€™dovich effect. Physical Review D, 2020, 102, .	4.7	56
42	Dark energy constraints from galaxy cluster peculiar velocities. Physical Review D, 2008, 77, .	4.7	55
43	The Atacama Cosmology Telescope project: A progress report. New Astronomy Reviews, 2006, 50, 969-976.	12.8	52
44	Signature of Local Motion in the Microwave Sky. Physical Review Letters, 2011, 106, 191301.	7.8	51
45	Atacama Cosmology Telescope: Constraints on cosmic birefringence. Physical Review D, 2020, 101, .	4.7	50
46	The Atacama Cosmology Telescope: measuring radio galaxy bias through cross-correlation with lensing. Monthly Notices of the Royal Astronomical Society, 2015, 451, 849-858.	4.4	41
47	Cosmological Constraints from Galaxy Cluster Velocity Statistics. Astrophysical Journal, 2007, 659, L83-L86.	4.5	39
48	Microwave background correlations from dipole anisotropy modulation. Physical Review D, 2015, 92, .	4.7	38
49	Gravitational Lensing of the Microwave Background by Galaxy Clusters. Astrophysical Journal, 2004, 616, 8-15.	4.5	37
50	Introduction to microwave background polarization. New Astronomy Reviews, 1999, 43, 157-168.	12.8	36
51	Generation of circular polarization of the cosmic microwave background. Physical Review D, 2009, 79, .	4.7	35
52	Cosmological parameters from pre-Planck CMB measurements: A 2017 update. Physical Review D, 2017, 95, .	4.7	33
53	Fast cosmological parameter estimation from microwave background temperature and polarization power spectra. Physical Review D, 2004, 70, .	4.7	31
54	Effects of quasar feedback in galaxy groups. Monthly Notices of the Royal Astronomical Society, 2008, 389, 34-44.	4.4	31

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55	A future test of gravitation using galaxy cluster velocities. Physical Review D, 2009, 80, .	4.7	28
56	The Atacama Cosmology Telescope: two-season ACTPol extragalactic point sources and their polarization properties. Monthly Notices of the Royal Astronomical Society, 2019, 486, 5239-5262.	4.4	27
57	Primordial magnetic helicity constraints from WMAP nine-year data. Physical Review D, 2014, 90, .	4.7	25
58	The Sunyaev-Zel'dovich Effect from Quasar Feedback. Astrophysical Journal, 2007, 661, L113-L116.	4.5	24
59	SOUTHERN COSMOLOGY SURVEY. I. OPTICAL CLUSTER DETECTIONS AND PREDICTIONS FOR THE SOUTHERN COMMON-AREA MILLIMETER-WAVE EXPERIMENTS. Astrophysical Journal, 2009, 698, 1221-1231.	4.5	24
60	Cosmic expansion in extended quasidilaton massive gravity. Physical Review D, 2015, 91, .	4.7	22
61	The timestep constraint in solving the gravitational wave equations sourced by hydromagnetic turbulence. Geophysical and Astrophysical Fluid Dynamics, 2020, 114, 130-161.	1.2	22
62	The Atacama Cosmology Telescope: the stellar content of galaxy clusters selected using the Sunyaevâ€"Zel'dovich effect. Monthly Notices of the Royal Astronomical Society, 2013, 435, 3469-3480.	4.4	20
63	Inflationary Tensor Perturbations after BICEP2. Physical Review Letters, 2014, 112, 191302.	7.8	20
64	Constrained Cluster Parameters from Sunyaevâ€Zelâ€™dovich Observations. Astrophysical Journal, 2005, 635, 22-34.	4.5	19
65	Gaussian approximation of peak values in the integrated Sachs-Wolfe effect. Physical Review D, 2015, 91, .	4.7	17
66	Quantifying the thermal Sunyaevâ€"Zelâ€™dovich effect and excess millimetre emission in quasar environments. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2315-2335.	4.4	16
67	Can small-scale baryon inhomogeneities resolve the Hubble tension? An investigation with ACT DR4. Physical Review D, 2021, 104, .	4.7	15
68	The Atacama Cosmology Telescope: Weighing Distant Clusters with the Most Ancient Light. Astrophysical Journal Letters, 2020, 903, L13.	8.3	15
69	Impact of systematic errors in Sunyaevâ€"Zelâ€™dovich surveys of galaxy clusters. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 001-001.	5.4	14
70	Galaxy peculiar velocities from large-scale supernova surveys as a dark energy probe. Physical Review D, 2011, 83, .	4.7	13
71	Microwave background polarization as a probe of large-angle correlations. Physical Review D, 2015, 91, .	4.7	13
72	Constraining the history of inflation from microwave background polarimetry and laser interferometry. Physical Review D, 2015, 91, .	4.7	9

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73	Systematic errors in Sunyaevâ€“Zeldovich surveys of galaxy cluster velocities. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 030.	5.4	8
74	Determining cosmological parameters from the microwave background. Nuclear Physics, Section B, Proceedings Supplements, 1996, 51, 49-53.	0.4	6
75	Exploring suppressed long-distance correlations as the cause of suppressed large-angle correlations. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5174-5181.	4.4	6
76	Can we test inflationary expansion of the early universe?. Physics Magazine, 2010, 3, .	0.1	5
77	Dwarf Galaxies, MOND, and Relativistic Gravitation. Advances in Astronomy, 2010, 2010, 1-9.	1.1	5
78	Quantum particle production effects on the cosmic expansion. Physical Review D, 2019, 100, .	4.7	5
79	Bias to cosmic microwave background lensing reconstruction from the kinematic Sunyaev-Zelâ€™dovich effect at reionization. Physical Review D, 2022, 105, .	4.7	5
80	Milgrom Relation Models for Spiral Galaxies from Two-dimensional Velocity Maps. Astronomical Journal, 2007, 133, 1698-1709.	4.7	4
81	Inflationary dynamics reconstruction via inverse-scattering theory. Physical Review D, 2017, 95, .	4.7	3
82	Noise correlations in cosmic microwave background experiments. Astrophysical Journal, 1995, 440, L37.	4.5	3
83	Cell Phone Activation and Brain Glucose Metabolism. JAMA - Journal of the American Medical Association, 2011, 305, 2066.	7.4	2
84	Magnetism in the Early Universe. Proceedings of the International Astronomical Union, 2018, 14, 295-298.	0.0	2
85	Issues Concerning Gravity Waves From First-Order Phase Transitionsa. Annals of the New York Academy of Sciences, 1993, 688, 660-665.	3.8	0
86	Extreme-Value Statistics for Testing Dark Energy. Proceedings of the International Astronomical Union, 2014, 10, 54-56.	0.0	0
87	The cosmic microwave background. Series in High Energy Physics, Cosmology, and Gravitation, 2001, , .	0.1	0