Arthur Kosowsky

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85 papers	7,291 citations	40 h-index	85 g-index
87 ext. papers	8,220 ext. citations	5.4 avg, IF	5.69 L-index

#	Paper	IF	Citations
85	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. *Astrophysical Journal*, **2022**, 926, 54	4.7	9
84	Can small-scale baryon inhomogeneities resolve the Hubble tension? An investigation with ACT DR4. *Physical Review D*, **2021**, 104,	4.9	8
83	Numerical simulations of gravitational waves from early-universe turbulence. *Physical Review D*, **2020**, 102,	4.9	28
82	Atacama Cosmology Telescope: Constraints on cosmic birefringence. *Physical Review D*, **2020**, 101,	4.9	26
81	The Atacama Cosmology Telescope: Weighing Distant Clusters with the Most Ancient Light. *Astrophysical Journal Letters*, **2020**, 903, L13	7.9	4
80	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	6.4	53
79	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	4.3	27
78	The timestep constraint in solving the gravitational wave equations sourced by hydromagnetic turbulence. *Geophysical and Astrophysical Fluid Dynamics*, **2020**, 114, 130-161	1.4	11
77	Atacama Cosmology Telescope: Component-separated maps of CMB temperature and the thermal Sunyaev-Zel�ovich effect. *Physical Review D*, **2020**, 102,	4.9	26
76	The Simons Observatory: science goals and forecasts. *Journal of Cosmology and Astroparticle Physics*, **2019**, 2019, 056-056	6.4	325
75	Quantifying the thermal Sunyaev�Zel�ovich effect and excess millimetre emission in quasar environments. *Monthly Notices of the Royal Astronomical Society*, **2019**, 490, 2315-2335	4.3	11
74	Quantum particle production effects on the cosmic expansion. *Physical Review D*, **2019**, 100,	4.9	3
73	Exploring suppressed long-distance correlations as the cause of suppressed large-angle correlations. *Monthly Notices of the Royal Astronomical Society*, **2019**, 490, 5174-5181	4.3	2
72	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	4.3	19
71	Magnetism in the Early Universe. *Proceedings of the International Astronomical Union*, **2018**, 14, 295-298	0.1	2
70	Inflationary dynamics reconstruction via inverse-scattering theory. *Physical Review D*, **2017**, 95,	4.9	3
69	Two-season Atacama Cosmology Telescope polarimeter lensing power spectrum. *Physical Review D* , **2017**, 95,	4.9	81

68	Cosmological parameters from pre-Planck CMB measurements: A 2017 update. *Physical Review D*, **2017**, 95,	4.9	25
67	Evidence for the kinematic Sunyaev-Zel’dovich effect with the Atacama Cosmology Telescope and velocity reconstruction from the Baryon Oscillation Spectroscopic Survey. *Physical Review D*, **2016**, 93,	4.9	70
66	The Atacama Cosmology Telescope: measuring radio galaxy bias through cross-correlation with lensing. *Monthly Notices of the Royal Astronomical Society*, **2015**, 451, 849-858	4.3	32
65	Gaussian approximation of peak values in the integrated Sachs-Wolfe effect. *Physical Review D*, **2015**, 91,	4.9	17
64	Evidence of lensing of the cosmic microwave background by dark matter halos. *Physical Review Letters*, **2015**, 114, 151302	7.4	60
63	Constraining the history of inflation from microwave background polarimetry and laser interferometry. *Physical Review D*, **2015**, 91,	4.9	5
62	Microwave background polarization as a probe of large-angle correlations. *Physical Review D*, **2015**, 91,	4.9	11
61	Microwave background correlations from dipole anisotropy modulation. *Physical Review D*, **2015**, 92,	4.9	35
60	Cosmic expansion in extended quasidilaton massive gravity. *Physical Review D*, **2015**, 91,	4.9	16
59	Inflationary tensor perturbations after BICEP2. *Physical Review Letters*, **2014**, 112, 191302	7.4	19
58	The Atacama Cosmology Telescope: CMB polarization at 200 Journal of Cosmology and Astroparticle Physics, **2014**, 2014, 007-007	6.4	106
57	Extreme-Value Statistics for Testing Dark Energy. *Proceedings of the International Astronomical Union*, **2014**, 10, 54-56	0.1	
56	Precision epoch of reionization studies with next-generation CMB experiments. *Journal of Cosmology and Astroparticle Physics*, **2014**, 2014, 010-010	6.4	76
55	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	6.4	177
54	Primordial magnetic helicity constraints from WMAP nine-year data. *Physical Review D*, **2014**, 90,	4.9	25
53	Cosmological parameters from pre-planck cosmic microwave background measurements. *Physical Review D*, **2013**, 87,	4.9	64
52	The Atacama Cosmology Telescope: cosmological parameters from three seasons of data. *Journal of Cosmology and Astroparticle Physics*, **2013**, 2013, 060-060	6.4	190
51	The Atacama Cosmology Telescope: the stellar content of galaxy clusters selected using the Sunyaev–Zel’dovich effect. *Monthly Notices of the Royal Astronomical Society*, **2013**, 435, 3469-3480	4.3	17

50	THE ATACAMA COSMOLOGY TELESCOPE: A MEASUREMENT OF THE PRIMORDIAL POWER SPECTRUM. *Astrophysical Journal*, **2012**, 749, 90	4.7	86
49	Evidence of galaxy cluster motions with the kinematic Sunyaev-Zel'dovich effect. *Physical Review Letters*, **2012**, 109, 041101	7.4	156
48	Evidence for dark energy from the cosmic microwave background alone using the Atacama Cosmology Telescope lensing measurements. *Physical Review Letters*, **2011**, 107, 021302	7.4	96
47	Galaxy peculiar velocities from large-scale supernova surveys as a dark energy probe. *Physical Review D*, **2011**, 83,	4.9	11
46	Signature of local motion in the microwave sky. *Physical Review Letters*, **2011**, 106, 191301	7.4	48
45	Cell phone activation and brain glucose metabolism. *JAMA - Journal of the American Medical Association*, **2011**, 305, 2066; author reply 2067-8	27.4	2
44	THE ATACAMA COSMOLOGY TELESCOPE: SUNYAEV-ZEL'DOVICH-SELECTED GALAXY CLUSTERS AT 148 GHz IN THE 2008 SURVEY. *Astrophysical Journal*, **2011**, 737, 61	4.7	206
43	Dwarf Galaxies, MOND, and Relativistic Gravitation. *Advances in Astronomy*, **2010**, 2010, 1-9	0.9	5
42	Squeezing down the Theory Space for Cosmic Inflation. *Physics Magazine*, **2010**, 3,	1.1	5
41	SOUTHERN COSMOLOGY SURVEY. I. OPTICAL CLUSTER DETECTIONS AND PREDICTIONS FOR THE SOUTHERN COMMON-AREA MILLIMETER-WAVE EXPERIMENTS. *Astrophysical Journal*, **2009**, 698, 1221-1231	4.7	24
40	Faraday rotation limits on a primordial magnetic field from Wilkinson Microwave Anisotropy Probe five-year data. *Physical Review D*, **2009**, 80,	4.9	61
39	A future test of gravitation using galaxy cluster velocities. *Physical Review D*, **2009**, 80,	4.9	25
38	Generation of circular polarization of the cosmic microwave background. *Physical Review D*, **2009**, 79,	4.9	30
37	Effects of quasar feedback in galaxy groups. *Monthly Notices of the Royal Astronomical Society*, **2008**, 389, 34-44	4.3	27
36	Dark energy constraints from galaxy cluster peculiar velocities. *Physical Review D*, **2008**, 77,	4.9	47
35	Systematic errors in SunyaevZeldovich surveys of galaxy cluster velocities. *Journal of Cosmology and Astroparticle Physics*, **2008**, 2008, 030	6.4	8
34	Detectability of gravitational waves from phase transitions. *Physical Review D*, **2008**, 78,	4.9	69
33	Spectrum of gravitational radiation from primordial turbulence. *Physical Review D*, **2007**, 76,	4.9	115

32	Cosmological Constraints from Galaxy Cluster Velocity Statistics. *Astrophysical Journal*, **2007**, 659, L83-L86	4.7	37
31	Milgrom Relation Models for Spiral Galaxies from Two-dimensional Velocity Maps. *Astronomical Journal*, **2007**, 133, 1698-1709	4.9	4
30	The Sunyaev-Zel’dovich Effect from Quasar Feedback. *Astrophysical Journal*, **2007**, 661, L113-L116	4.7	21
29	The Atacama Cosmology Telescope project: A progress report. *New Astronomy Reviews*, **2006**, 50, 969-976	7.9	51
28	Faraday rotation of the cosmic microwave background polarization by a stochastic magnetic field. *Physical Review D*, **2005**, 71,	4.9	114
27	Impact of systematic errors in Sunyaev–Zel’dovich surveys of galaxy clusters. *Journal of Cosmology and Astroparticle Physics*, **2005**, 2005, 001-001	6.4	14
26	Constrained Cluster Parameters from Sunyaev-Zel’dovich Observations. *Astrophysical Journal*, **2005**, 635, 22-34	4.7	19
25	Gravitational Lensing of the Microwave Background by Galaxy Clusters. *Astrophysical Journal*, **2004**, 616, 8-15	4.7	33
24	Fast cosmological parameter estimation from microwave background temperature and polarization power spectra. *Physical Review D*, **2004**, 70,	4.9	27
23	Effect of Internal Flows on Sunyaev-Zeldovich Measurements of Cluster Peculiar Velocities. *Astrophysical Journal*, **2003**, 587, 524-532	4.7	73
22	The Atacama Cosmology Telescope. *New Astronomy Reviews*, **2003**, 47, 939-943	7.9	112
21	Microwave background signatures of a primordial stochastic magnetic field. *Physical Review D*, **2002**, 65,	4.9	163
20	Efficient cosmological parameter estimation from microwave background anisotropies. *Physical Review D*, **2002**, 66,	4.9	131
19	Gravitational radiation from cosmological turbulence. *Physical Review D*, **2002**, 66,	4.9	170
18	Introduction to microwave background polarization. *New Astronomy Reviews*, **1999**, 43, 157-168	7.9	31
17	THECOSMICMICROWAVEBACKGROUND ANDPARTICLEPHYSICS. *Annual Review of Nuclear and Particle Science*, **1999**, 49, 77-123	15.7	118
16	Minkowski functional description of microwave background Gaussianity. *New Astronomy*, **1998**, 3, 75-99	1.8	63
15	Detectability of inflationary gravitational waves with microwave background polarization. *Physical Review D*, **1998**, 57, 685-691	4.9	80

14	A Probe of Primordial Gravity Waves and Vorticity. *Physical Review Letters*, **1997**, 78, 2058-2061	7.4	554
13	Statistics of cosmic microwave background polarization. *Physical Review D*, **1997**, 55, 7368-7388	4.9	657
12	Cosmological-parameter determination with microwave background maps. *Physical Review D*, **1996**, 54, 1332-1344	4.9	352
11	Determining cosmological parameters from the microwave background. *Nuclear Physics, Section B, Proceedings Supplements*, **1996**, 51, 49-53		5
10	Cosmic Microwave Background Polarization. *Annals of Physics*, **1996**, 246, 49-85	2.5	153
9	Weighing the universe with the cosmic microwave background. *Physical Review Letters*, **1996**, 76, 1007-1010	7.4	149
8	Faraday Rotation of Microwave Background Polarization by a Primordial Magnetic Field. *Astrophysical Journal*, **1996**, 469, 1	4.7	195
7	CBR anisotropy and the running of the scalar spectral index. *Physical Review D*, **1995**, 52, R1739-R1743	4.9	203
6	Noise correlations in cosmic microwave background experiments. *Astrophysical Journal*, **1995**, 440, L37	4.7	3
5	Gravitational radiation from first-order phase transitions. *Physical Review D*, **1994**, 49, 2837-2851	4.9	425
4	Issues Concerning Gravity Waves From First-Order Phase Transitionsa. *Annals of the New York Academy of Sciences*, **1993**, 688, 660-5	6.5	
3	Gravitational radiation from colliding vacuum bubbles: Envelope approximation to many-bubble collisions. *Physical Review D*, **1993**, 47, 4372-4391	4.9	221
2	Gravitational radiation from colliding vacuum bubbles. *Physical Review D*, **1992**, 45, 4514-4535	4.9	263
1	Gravitational waves from first-order cosmological phase transitions. *Physical Review Letters*, **1992**, 69, 2026-2029	7.4	246