

# Levon Pogosian

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

4,398  
citations

126907

33  
h-index

155660

55  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2437  
citing authors

#	ARTICLE	IF	CITATIONS
1	Consistency of Planck, ACT, and SPT constraints on magnetically assisted recombination and forecasts for future experiments. <i>Physical Review D</i> , 2022, 105, .	4.7	15
2	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	4.5	79
3	Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. <i>Journal of High Energy Astrophysics</i> , 2022, 34, 49-211.	6.7	350
4	Why reducing the cosmic sound horizon alone can not fully resolve the Hubble tension. <i>Communications Physics</i> , 2021, 4, .	5.3	106
5	Decay of cosmic global string loops. <i>Physical Review D</i> , 2020, 101, .	4.7	19
6	Relieving the Hubble Tension with Primordial Magnetic Fields. <i>Physical Review Letters</i> , 2020, 125, 181302.	7.8	110
7	Generalized Brans-Dicke theories in light of evolving dark energy. <i>Physical Review D</i> , 2020, 101, .	4.7	7
8	Recombination-independent Determination of the Sound Horizon and the Hubble Constant from BAO. <i>Astrophysical Journal Letters</i> , 2020, 904, L17.	8.3	31
9	Future CMB constraints on cosmic birefringence and implications for fundamental physics. <i>Physical Review D</i> , 2019, 100, .	4.7	36
10	Decay of Cosmic String Loops due to Particle Radiation. <i>Physical Review Letters</i> , 2019, 122, 201301.	7.8	50
11	Phenomenology of large scale structure in scalar-tensor theories: Joint prior covariance of $w$ and $DE$ , $\hat{\xi}$ , and $\hat{\beta}$	4.7	33
12	Large-scale structure phenomenology of viable Horndeski theories. <i>Physical Review D</i> , 2018, 97, .	4.7	53
13	Evolution of Dark Energy Reconstructed from the Latest Observations. <i>Astrophysical Journal Letters</i> , 2018, 869, L8.	8.3	74
14	Searching for primordial magnetic fields with CMB B -modes. <i>Classical and Quantum Gravity</i> , 2018, 35, 124004.	4.0	19
15	Constraints on primordial magnetic fields from Planck data combined with the South Pole Telescope CMB $B$ -mode polarization measurements. <i>Physical Review D</i> , 2017, 95, .	4.7	44
16	Priors on the effective dark energy equation of state in scalar-tensor theories. <i>Physical Review D</i> , 2017, 96, .	4.7	27
17	Dynamical dark energy in light of the latest observations. <i>Nature Astronomy</i> , 2017, 1, 627-632.	10.1	332
18	The extended Baryon Oscillation Spectroscopic Survey: a cosmological forecast. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 2377-2390.	4.4	83

#	ARTICLE	IF	CITATIONS
19	Searching for scalar gravitational interactions in current and future cosmological data. Physical Review D, 2016, 93, .	4.7	17
20	What can cosmology tell us about gravity? Constraining Horndeski gravity with $\xi$ and $\eta$ . Physical Review D, 2016, 94, .	4.7	80
21	Magnetic monopole domain wall collisions. Physical Review D, 2015, 92, .	4.7	5
22	Reconstruction of the dark matter vacuum energy interaction. Physical Review D, 2015, 92, .	4.7	32
23	POLARBEAR constraints on cosmic birefringence and primordial magnetic fields. Physical Review D, 2015, 92, .	4.7	78
24	Searching for primordial magnetism with multifrequency cosmic microwave background experiments. Monthly Notices of the Royal Astronomical Society, 2014, 438, 2508-2512.	4.4	20
25	Observable physical modes of modified gravity. Physical Review D, 2014, 89, .	4.7	17
26	Did BICEP2 See Vector Modes? First B-Mode Constraints on Cosmic Defects. Physical Review Letters, 2014, 112, 171302.	7.8	48
27	Primordial magnetism in CMB B modes. Canadian Journal of Physics, 2013, 91, 451-454.	1.1	6
28	Practical approach to cosmological perturbations in modified gravity. Physical Review D, 2013, 87, .	4.7	113
29	CMB Faraday rotation as seen through the Milky Way. Physical Review D, 2013, 88, .	4.7	26
30	Fables of reconstruction: controlling bias in the dark energy equation of state. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 048-048.	5.4	77
31	Probing primordial magnetism with off-diagonal correlators of CMB polarization. Physical Review D, 2012, 86, .	4.7	24
32	Practical solutions for perturbed $f$ and $m$ . Physical Review D, 2012, 86, .	4.7	39
33	Cosmological tests of general relativity: A principal component analysis. Physical Review D, 2012, 85, .	4.7	66
34	Examining the Evidence for Dynamical Dark Energy. Physical Review Letters, 2012, 109, 171301.	7.8	97
35	Scaling configurations of cosmic superstring networks and their cosmological implications. Physical Review D, 2011, 83, .	4.7	30
36	Testing gravity with CAMB and CosmoMC. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 005-005.	5.4	187

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37	Complementarity of weak lensing and peculiar velocity measurements in testing general relativity. Physical Review D, 2011, 84, .	4.7	67
38	Primordial magnetism in the CMB: Exact treatment of Faraday rotation and WMAP7 bounds. Physical Review D, 2011, 84, .	4.7	42
39	Constraints on the Fundamental String Coupling from B-Mode Experiments. Physical Review Letters, 2011, 107, 121301.	7.8	26
40	Seeking string theory in the cosmos. Classical and Quantum Gravity, 2011, 28, 204009.	4.0	94
41	Correlations between 21-cm radiation and the cosmic microwave background from active sources. Monthly Notices of the Royal Astronomical Society, 2010, 407, 1116-1122.	4.4	13
42	How to optimally parametrize deviations from general relativity in the evolution of cosmological perturbations. Physical Review D, 2010, 81, .	4.7	119
43	Probing modifications of general relativity using current cosmological observations. Physical Review D, 2010, 81, .	4.7	118
44	Cosmological Tests of General Relativity with Future Tomographic Surveys. Physical Review Letters, 2009, 103, 241301.	7.8	91
45	Investigating dark energy experiments with principal components. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 025-025.	5.4	71
46	Searching for modified growth patterns with tomographic surveys. Physical Review D, 2009, 79, .	4.7	204
47	Probing Inflation with CMB Polarization. , 2009, , .		252
48	Pattern of growth in viable $f(R)$ gravity. Physical Review D, 2007, 75, .	4.7	285
49	Dynamics of linear perturbations in $f(R)$ gravity. Physical Review D, 2007, 75, .	4.7	268
50	The evolving dark energy equation of state and cosmic microwave background/large scale structure cross-correlation. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 015-015.	5.4	18
51	Anthropic predictions for neutrino masses. Physical Review D, 2005, 71, .	4.7	33
52	Bounds on cosmic strings from WMAP and SDSS. Physical Review D, 2005, 72, .	4.7	140
53	Tracking dark energy with the integrated Sachs-Wolfe effect: Short and long-term predictions. Physical Review D, 2005, 72, .	4.7	65
54	COSMIC DEFECTS AND CMB ANISOTROPY. International Journal of Modern Physics A, 2001, 16, 1043-1045.	1.5	8