

Levon Pogosian

List of Publications by Year in descending order

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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	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
2	Dynamical dark energy in light of the latest observations. <i>Nature Astronomy</i> , 2017, 1, 627-632.	10.1	332
3	Pattern of growth in viable $f(R)$ gravity. <i>Physical Review D</i> , 2007, 75, .	4.7	285
4	Dynamics of linear perturbations in $f(R)$ gravity. <i>Physical Review D</i> , 2007, 75, .	4.7	268
5	Probing Inflation with CMB Polarization. , 2009, , .		252
6	Searching for modified growth patterns with tomographic surveys. <i>Physical Review D</i> , 2009, 79, .	4.7	204
7	Testing gravity with CAMB and CosmoMC. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 005-005.	5.4	187
8	Bounds on cosmic strings from WMAP and SDSS. <i>Physical Review D</i> , 2005, 72, .	4.7	140
9	How to optimally parametrize deviations from general relativity in the evolution of cosmological perturbations. <i>Physical Review D</i> , 2010, 81, .	4.7	119
10	Probing modifications of general relativity using current cosmological observations. <i>Physical Review D</i> , 2010, 81, .	4.7	118
11	Practical approach to cosmological perturbations in modified gravity. <i>Physical Review D</i> , 2013, 87, .	4.7	113
12	Relieving the Hubble Tension with Primordial Magnetic Fields. <i>Physical Review Letters</i> , 2020, 125, 181302.	7.8	110
13	Why reducing the cosmic sound horizon alone can not fully resolve the Hubble tension. <i>Communications Physics</i> , 2021, 4, .	5.3	106
14	Examining the Evidence for Dynamical Dark Energy. <i>Physical Review Letters</i> , 2012, 109, 171301.	7.8	97
15	Seeking string theory in the cosmos. <i>Classical and Quantum Gravity</i> , 2011, 28, 204009.	4.0	94
16	Cosmological Tests of General Relativity with Future Tomographic Surveys. <i>Physical Review Letters</i> , 2009, 103, 241301.	7.8	91
17	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
18	What can cosmology tell us about gravity? Constraining Horndeski gravity with $f(R)$ and $f(R, \square R)$. <i>Physical Review D</i> , 2016, 94, .	4.7	80

#	ARTICLE	IF	CITATIONS
19	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	4.5	79
20	POLARBEAR constraints on cosmic birefringence and primordial magnetic fields. <i>Physical Review D</i> , 2015, 92, .	4.7	78
21	Fables of reconstruction: controlling bias in the dark energy equation of state. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 048-048.	5.4	77
22	Evolution of Dark Energy Reconstructed from the Latest Observations. <i>Astrophysical Journal Letters</i> , 2018, 869, L8.	8.3	74
23	Investigating dark energy experiments with principal components. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 025-025.	5.4	71
24	Complementarity of weak lensing and peculiar velocity measurements in testing general relativity. <i>Physical Review D</i> , 2011, 84, .	4.7	67
25	Cosmological tests of general relativity: A principal component analysis. <i>Physical Review D</i> , 2012, 85, .	4.7	66
26	Tracking dark energy with the integrated Sachs-Wolfe effect: Short and long-term predictions. <i>Physical Review D</i> , 2005, 72, .	4.7	65
27	Large-scale structure phenomenology of viable Horndeski theories. <i>Physical Review D</i> , 2018, 97, .	4.7	53
28	Decay of Cosmic String Loops due to Particle Radiation. <i>Physical Review Letters</i> , 2019, 122, 201301.	7.8	50
29	Did BICEP2 See Vector Modes? First B-Mode Constraints on Cosmic Defects. <i>Physical Review Letters</i> , 2014, 112, 171302.	7.8	48
30	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
31	Primordial magnetism in the CMB: Exact treatment of Faraday rotation and WMAP7 bounds. <i>Physical Review D</i> , 2011, 84, .	4.7	42
32	Practical solutions for perturbed f R T E Q 0 0 g B T O v e r l o c k 1 0 T f 5 0 2 1 2 T d $($ s t r e t c h $=$ $"$ f a l s e $"$ $)$ $</mml:math>$	4.7	39
33	Future CMB constraints on cosmic birefringence and implications for fundamental physics. <i>Physical Review D</i> , 2019, 100, .	4.7	36
34	Anthropic predictions for neutrino masses. <i>Physical Review D</i> , 2005, 71, .	4.7	33
35	Phenomenology of large scale structure in scalar-tensor theories: joint prior covariance of w D E Q 0 0 g B T O v e r l o c k 1 0 T f 5 0 2 1 2 T d $($ s t r e t c h $=$ $"$ f a l s e $"$ $)$ $</mml:math>$, and $\hat{\xi}$ $</mml:math>$	4.7	33
36	Reconstruction of the dark matter "vacuum energy interaction. <i>Physical Review D</i> , 2015, 92, .	4.7	32

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37	Recombination-independent Determination of the Sound Horizon and the Hubble Constant from BAO. <i>Astrophysical Journal Letters</i> , 2020, 904, L17.	8.3	31
38	Scaling configurations of cosmic superstring networks and their cosmological implications. <i>Physical Review D</i> , 2011, 83, .	4.7	30
39	Priors on the effective dark energy equation of state in scalar-tensor theories. <i>Physical Review D</i> , 2017, 96, .	4.7	27
40	Constraints on the Fundamental String Coupling from B-Mode Experiments. <i>Physical Review Letters</i> , 2011, 107, 121301.	7.8	26
41	CMB Faraday rotation as seen through the Milky Way. <i>Physical Review D</i> , 2013, 88, .	4.7	26
42	Probing primordial magnetism with off-diagonal correlators of CMB polarization. <i>Physical Review D</i> , 2012, 86, .	4.7	24
43	Searching for primordial magnetism with multifrequency cosmic microwave background experiments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 438, 2508-2512.	4.4	20
44	Searching for primordial magnetic fields with CMB B -modes. <i>Classical and Quantum Gravity</i> , 2018, 35, 124004.	4.0	19
45	Decay of cosmic global string loops. <i>Physical Review D</i> , 2020, 101, .	4.7	19
46	The evolving dark energy equation of state and cosmic microwave background/large scale structure cross-correlation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 015-015.	5.4	18
47	Observable physical modes of modified gravity. <i>Physical Review D</i> , 2014, 89, .	4.7	17
48	Searching for scalar gravitational interactions in current and future cosmological data. <i>Physical Review D</i> , 2016, 93, .	4.7	17
49	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
50	Correlations between 21-cm radiation and the cosmic microwave background from active sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 407, 1116-1122.	4.4	13
51	COSMIC DEFECTS AND CMB ANISOTROPY. <i>International Journal of Modern Physics A</i> , 2001, 16, 1043-1045.	1.5	8
52	Generalized Brans-Dicke theories in light of evolving dark energy. <i>Physical Review D</i> , 2020, 101, .	4.7	7
53	Primordial magnetism in CMB B modes. <i>Canadian Journal of Physics</i> , 2013, 91, 451-454.	1.1	6
54	Magnetic monopole domain wall collisions. <i>Physical Review D</i> , 2015, 92, .	4.7	5