

Arman Shafieloo

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

6,669
citations

94433

37
h-index

62596

80
g-index

103
all docs

103
docs citations

103
times ranked

4186
citing authors

#	ARTICLE	IF	CITATIONS
1	The 16th Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2 Southern Survey and Full Release of eBOSS Spectra. <i>Astrophysical Journal, Supplement Series</i> , 2020, 249, 3.	7.7	826
2	Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Cosmological implications from two decades of spectroscopic surveys at the Apache Point Observatory. <i>Physical Review D</i> , 2021, 103, .	4.7	527
3	Two new diagnostics of dark energy. <i>Physical Review D</i> , 2008, 78, .	4.7	438
4	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
5	Dynamical dark energy in light of the latest observations. <i>Nature Astronomy</i> , 2017, 1, 627-632.	10.1	332
6	Snowmass2021 - Letter of interest cosmology intertwined II: The hubble constant tension. <i>Astroparticle Physics</i> , 2021, 131, 102605.	4.3	228
7	MODEL-INDEPENDENT EVIDENCE FOR DARK ENERGY EVOLUTION FROM BARYON ACOUSTIC OSCILLATIONS. <i>Astrophysical Journal Letters</i> , 2014, 793, L40.	8.3	193
8	Cosmology intertwined III: $\Omega_b h^2$ and $\Omega_c h^2$ and $\Omega_b h^2$ and $\Omega_c h^2$ and $\Omega_b h^2$ and $\Omega_c h^2$. <i>Astroparticle Physics</i> , 2021, 131, 102604.	4.3	182
9	Gaussian process cosmography. <i>Physical Review D</i> , 2012, 85, .	4.7	176
10	Smoothing supernova data to reconstruct the expansion history of the Universe and its age. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 366, 1081-1095.	4.4	158
11	Is cosmic acceleration slowing down?. <i>Physical Review D</i> , 2009, 80, .	4.7	155
12	Probing the anisotropic local Universe and beyond with SNeIa data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 414, 264-271.	4.4	144
13	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: a tomographic measurement of cosmic structure growth and expansion rate based on optimal redshift weights. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 3497-3513.	4.4	142
14	POWER ASYMMETRY IN WMAP AND PLANCK TEMPERATURE SKY MAPS AS MEASURED BY A LOCAL VARIANCE ESTIMATOR. <i>Astrophysical Journal Letters</i> , 2014, 784, L42.	8.3	137
15	A Simple Phenomenological Emergent Dark Energy Model can Resolve the Hubble Tension. <i>Astrophysical Journal Letters</i> , 2019, 883, L3.	8.3	123
16	STRONG LENS TIME DELAY CHALLENGE. II. RESULTS OF TDC1. <i>Astrophysical Journal</i> , 2015, 800, 11.	4.5	120
17	Primordial power spectrum from WMAP. <i>Physical Review D</i> , 2004, 70, .	4.7	118
18	Model independent tests of the standard cosmological model. <i>Physical Review D</i> , 2010, 81, .	4.7	104

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19	Model-independent reconstruction of the expansion history of the Universe and the properties of dark energy. Monthly Notices of the Royal Astronomical Society, 2007, 380, 1573-1580.	4.4	88
20	A Model-independent Determination of the Hubble Constant from Lensed Quasars and Supernovae Using Gaussian Process Regression. Astrophysical Journal Letters, 2019, 886, L23.	8.3	75
21	Wiggly whipped inflation. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 048-048.	5.4	69
22	Model-independent test of the FLRW metric, the flatness of the Universe, and non-local estimation of H_0 and r_d . Journal of Cosmology and Astroparticle Physics, 2017, 2017, 015-015.	5.4	68
23	Is a step in the primordial spectral index favoured by CMB data?. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 028-028.	5.4	67
24	Features in the primordial spectrum from WMAP: A wavelet analysis. Physical Review D, 2007, 75, .	4.7	65
25	Estimation of primordial spectrum with post-WMAP 3-year data. Physical Review D, 2008, 78, .	4.7	62
26	Primordial power spectrum from Planck. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 011-011.	5.4	62
27	A model-independent null test on the cosmological constant. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1879-1885.	4.4	60
28	New null diagnostic customized for reconstructing the properties of dark energy from baryon acoustic oscillations data. Physical Review D, 2012, 86, .	4.7	57
29	Inflation with Whip-Shaped Suppressed Scalar Power Spectra. Physical Review Letters, 2014, 113, 071301.	7.8	56
30	Determining Model-independent H_0 and Consistency Tests. Astrophysical Journal Letters, 2020, 895, L29.	8.3	48
31	Reconciling H_0 tension in a six parameter space?. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 062-062.	5.4	46
32	Falsifying $\hat{\Lambda}$ CDM : Model-independent tests of the concordance model with eBOSS DR14Q and Pantheon. Physical Review D, 2018, 98, .	4.7	44
33	Features in the primordial power spectrum? A frequentist analysis. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 010-010.	5.4	43
34	Crossing statistic: reconstructing the expansion history of the universe. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 002-002.	5.4	43
35	Evidence for Emergent Dark Energy. Astrophysical Journal, 2020, 902, 58.	4.5	43
36	Model independent tests of cosmic growth versus expansion. Physical Review D, 2013, 87, .	4.7	41

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37	Cosmic curvature tested directly from observations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 041-041.	5.4	39
38	Reconstruction of broad features in the primordial spectrum and inflaton potential from Planck. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 035-035.	5.4	36
39	Ruling out the power-law form of the scalar primordial spectrum. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 061-061.	5.4	36
40	Metastable dark energy with radioactive-like decay. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 2760-2770.	4.4	36
41	Testing isotropy in the local Universe. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 070-070.	5.4	35
42	Primordial features and Planck polarization. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 009-009.	5.4	35
43	Primordial power spectrum: a complete analysis with the WMAP nine-year data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 031-031.	5.4	34
44	PROBING BULK FLOW WITH NEARBY SNe Ia DATA. <i>Astrophysical Journal</i> , 2015, 801, 76.	4.5	32
45	Induced cosmological constant and other features of asymmetric brane embedding. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 023-023.	5.4	30
46	Bright highz SNIa: A challenge for Λ CDM. <i>Physical Review D</i> , 2009, 79, .	4.7	29
47	Wiggles in the cosmic microwave background radiation: Echoes from nonsingular cyclic inflation. <i>Physical Review D</i> , 2010, 82, .	4.7	29
48	Model-independent cosmological constraints from growth and expansion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 3263-3268.	4.4	29
49	The clustering of the SDSS-IV extended baryon oscillation spectroscopic survey DR16 luminous red galaxy and emission-line galaxy samples: cosmic distance and structure growth measurements using multiple tracers in configuration space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3470-3483.	4.4	29
50	Revisiting Metastable Dark Energy and Tensions in the Estimation of Cosmological Parameters. <i>Astrophysical Journal</i> , 2019, 887, 153.	4.5	28
51	Parameter discordance in Planck CMB and low-redshift measurements: projection in the primordial power spectrum. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 036-036.	5.4	27
52	Hubble diagram at higher redshifts: model independent calibration of quasars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 919-926.	4.4	27
53	The crossing statistic: dealing with unknown errors in the dispersion of Type Ia supernovae. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 017-017.	5.4	26
54	Cosmological Constraints from the Redshift Dependence of the Alcock-Paczynski Effect: Dynamical Dark Energy. <i>Astrophysical Journal</i> , 2018, 856, 88.	4.5	26

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55	Crossing statistic: Bayesian interpretation, model selection and resolving dark energy parametrization problem. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 024-024.	5.4	25
56	Cosmological parameter estimation with free-form primordial power spectrum. <i>Physical Review D</i> , 2013, 87, .	4.7	25
57	Inflation wars: a new hope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 055-055.	5.4	25
58	Probing features in inflaton potential and reionization history with future CMB space observations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 017-017.	5.4	24
59	Reconstructing the Universe: Testing the Mutual Consistency of the Pantheon and SDSS/eBOSS BAO Data Sets with Gaussian Processes. <i>Astronomical Journal</i> , 2021, 161, 151.	4.7	24
60	Generalized emergent dark energy model and the Hubble constant tension. <i>Physical Review D</i> , 2021, 104, .	4.7	23
61	Probing features in the primordial perturbation spectrum with large-scale structure data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 2503-2512.	4.4	21
62	Hints for possible low redshift oscillation around the best fit Λ CDM model in the expansion history of the universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	21
63	Model independent expansion history from supernovae: Cosmology versus systematics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 2783-2790.	4.4	20
64	The completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: a multitracer analysis in Fourier space for measuring the cosmic structure growth and expansion rate. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 33-52.	4.4	20
65	Confronting the concordance model of cosmology with Planck data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 043-043.	5.4	19
66	Testing the Isotropic Universe Using the Gamma-Ray Burst Data of Fermi/GBM. <i>Astrophysical Journal</i> , 2017, 851, 15.	4.5	19
67	Debiasing cosmic gravitational wave sirens. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 3983-3989.	4.4	19
68	Cosmographic degeneracy. <i>Physical Review D</i> , 2011, 84, .	4.7	18
69	Dark energy as a critical phenomenon: a hint from Hubble tension. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 003.	5.4	18
70	Searching for systematics in SNIa and galaxy cluster data using the cosmic duality relation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 042-042.	5.4	16
71	Direct search for features in the primordial bispectrum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 760, 297-301.	4.1	16
72	A non-parametric consistency test of the Λ CDM model with Planck CMB data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 031-031.	5.4	16

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73	Update on testing the isotropy of the properties of gamma-ray bursts. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3027-3040.	4.4	16
74	Consistency of the Planck CMB data and Λ CDM cosmology. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 012-012.	5.4	15
75	Defying the laws of gravity I: model-independent reconstruction of the Universe expansion from growth data. Monthly Notices of the Royal Astronomical Society, 2020, 494, 819-826.	4.4	14
76	Constraints on features in the inflationary potential from future Euclid data. Monthly Notices of the Royal Astronomical Society, 2020, 496, 3448-3468.	4.4	14
77	The clustering of the SDSS-IV extended Baryon Oscillation Spectroscopic Survey DR14 quasar sample: anisotropic Baryon Acoustic Oscillations measurements in Fourier-space with optimal redshift weights. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1528-1535.	4.4	13
78	FAST AND RELIABLE TIME DELAY ESTIMATION OF STRONG LENS SYSTEMS USING THE SMOOTHING AND CROSS-CORRELATION METHODS. Astrophysical Journal, 2015, 804, 39.	4.5	12
79	Growth of perturbations in nonlocal gravity with non- Λ CDM background. Physical Review D, 2017, 95, .	4.7	12
80	ISW effect as probe of features in the expansion history of the Universe. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 016-016.	5.4	10
81	Test of consistency between Planck and WMAP. Physical Review D, 2014, 89, .	4.7	10
82	Be It Unresolved: Measuring Time Delays from Lensed Supernovae. Astrophysical Journal, 2021, 910, 65.	4.5	10
83	Model-independent Constraints on Type Ia Supernova Light-curve Hyperparameters and Reconstructions of the Expansion History of the Universe. Astrophysical Journal, 2020, 899, 9.	4.5	10
84	Inflation story: slow-roll and beyond. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 038.	5.4	10
85	Identifying Lensed Quasars and Measuring Their Time Delays from Unresolved Light Curves. Astrophysical Journal, 2022, 927, 191.	4.5	10
86	Testing local anisotropy using the method of smoothed residuals I $\hat{\epsilon}$ methodology. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 007-007.	5.4	9
87	Search for a direction in the forest of Lyman- α . Journal of Cosmology and Astroparticle Physics, 2015, 2015, 012-012.	5.4	9
88	Phantom Braneworld and the Hubble Tension. Astrophysical Journal, 2021, 923, 212.	4.5	9
89	Assumptions of the primordial spectrum and cosmological parameter estimation. New Journal of Physics, 2011, 13, 103024.	2.9	8
90	Presently decaying dark energy?. Annalen Der Physik, 2010, 19, 316-319.	2.4	6

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91	Falsifying Cosmological Constant. Nuclear Physics, Section B, Proceedings Supplements, 2014, 246-247, 171-177.	0.4	6
92	Using variability and VLBI to measure cosmological distances. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 495, L27-L31.	3.3	6
93	Early Universe with CMB Anisotropy. Progress of Theoretical Physics Supplement, 2008, 172, 156-160.	0.1	5
94	Unveiling acoustic physics of the CMB using nonparametric estimation of the temperature angular power spectrum for Planck. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 007-007.	5.4	5
95	Model selection and parameter estimation using the iterative smoothing method. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 034.	5.4	5
96	Out of one, many: distinguishing time delays from lensed supernovae. Monthly Notices of the Royal Astronomical Society, 2022, 511, 1210-1217.	4.4	5
97	Tentative evidence for slowing down of cosmic acceleration from recent small redshift supernovae and BAO data. , 2010, , .		4
98	Bayesian vs frequentist: comparing Bayesian model selection with a frequentist approach using the iterative smoothing method. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 047.	5.4	4
99	On the distribution of Bayesian evidence. Monthly Notices of the Royal Astronomical Society, 2022, 515, 293-301.	4.4	4
100	TIME DELAY ANALYSIS OF THE LENSED QUASAR SDSS J1001+5027. Astrophysical Journal, 2017, 834, 31.	4.5	3
101	Nonparametric test of consistency between cosmological models and multiband CMB measurements. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 003-003.	5.4	2
102	Searching for hidden unexpected features in the Slna data. , 2010, , .		1
103	A novel approach for calculating galaxy rotation curves using spaxel cross-correlation and iterative smoothing. Monthly Notices of the Royal Astronomical Society, 2022, 514, 2278-2297.	4.4	0