Mustapha Ishak

List of Publications by Year
in descending order

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59 papers	2,899 citations	218677 26 h-index	182427 51 g-index
62 all docs	62 docs citations	62 times ranked	1755 citing authors

#	Article	IF	Citations
1	Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. Journal of High Energy Astrophysics, 2022, 34, 49-211.	6.7	350
2	Testing general relativity in cosmology. Living Reviews in Relativity, 2019, 22, 1.	26.7	265
3	The intrinsic alignment of galaxies and its impact on weak gravitational lensing in an era of precision cosmology. Physics Reports, 2015, 558, 1-59.	25.6	216
4	Intrinsic galaxy alignments from the 2SLAQ and SDSS surveys: luminosity and redshift scalings and implications for weak lensing surveys. Monthly Notices of the Royal Astronomical Society, 0, 381, 1197-1218.	4.4	210
5	Probing cosmic acceleration beyond the equation of state: Distinguishing between dark energy and modified gravity models. Physical Review D, 2006, 74, .	4.7	196
6	Contribution of the cosmological constant to the relativistic bending of light revisited. Physical Review D, 2007, 76, .	4.7	163
7	Dynamical dark energy: Current constraints and forecasts. Physical Review D, 2005, 72, .	4.7	154
8	Core Cosmology Library: Precision Cosmological Predictions for LSST. Astrophysical Journal, Supplement Series, 2019, 242, 2.	7.7	130
9	Cosmological discordances. II. Hubble constant, Planck and large-scale-structure data sets. Physical Review D, 2017, 96, .	4.7	73
10	Testing general relativity at cosmological scales: Implementation and parameter correlations. Physical Review D, 2011, 84, .	4.7	69
11	Cosmological discordances: A new measure, marginalization effects, and application to geometry versus growth current data sets. Physical Review D, 2017, 96, .	4.7	58
12	The relevance of the cosmological constant for lensing. General Relativity and Gravitation, 2010, 42, 2247-2268.	2.0	54
13	Remarks on the Formulation of the Cosmological Constant/Dark Energy Problems. Foundations of Physics, 2007, 37, 1470-1498.	1.3	47
14	Spatial curvature and cosmological tests of general relativity. Physical Review D, 2012, 86, .	4.7	46
15	Contiguous redshift parameterizations of the growth index. Physical Review D, 2009, 80, .	4.7	43
16	Weak lensing and CMB: Parameter forecasts including a running spectral index. Physical Review D, 2004, 69, .	4.7	41
17	Dark energy or apparent acceleration due to a relativistic cosmological model more complex than the Friedmann-Lemaitre-Robertson-Walker model?. Physical Review D, 2008, 78, .	4.7	41
18	Growth factor parametrization in curved space. Physical Review D, 2009, 80, .	4.7	41

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19	Towards testing the theory of gravity with DESI: summary statistics, model predictions and future simulation requirements. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 050.	5.4	41
20	Constraints on growth index parameters from current and future observations. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 022-022.	5.4	38
21	Cross-correlation between cosmic microwave background lensing and galaxy intrinsic alignment as a contaminant to gravitational lensing cross-correlated probes of the Universe. Physical Review D, 2014, 89, .	4.7	37
22	Luminosity distance and redshift in the Szekeres inhomogeneous cosmological models. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 028-028.	5.4	36
23	Constraints and tensions in testing general relativity from Planck and CFHTLenS data including intrinsic alignment systematics. Physical Review D, 2015, 92, .	4.7	36
24	Figures of merit and constraints from testing general relativity using the latest cosmological data sets including refined COSMOS 3D weak lensing. Physical Review D, 2011, 84, .	4.7	35
25	Growth of structure in the Szekeres class-II inhomogeneous cosmological models and the matter-dominated era. Physical Review D, 2012, 85, .	4.7	33
26	The LSST DESC DC2 Simulated Sky Survey. Astrophysical Journal, Supplement Series, 2021, 253, 31.	7.7	32
27	Effects of dark energy perturbations on cosmological tests of general relativity. Physical Review D, 2013, 88, .	4.7	30
28	Large-scale growth evolution in the Szekeres inhomogeneous cosmological models with comparison to growth data. Physical Review D, 2012, 86, .	4.7	24
29	Light deflection, lensing, and time delays from gravitational potentials and Fermatâ€™s principle in the presence of a cosmological constant. Physical Review D, 2008, 78, .	4.7	23
30	Self-calibration for three-point intrinsic alignment autocorrelations in weak lensing surveys. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1663-1673.	4.4	21
31	Spectroscopic source redshifts and parameter constraints from weak lensing and the cosmic microwave background. Physical Review D, 2005, 71, .	4.7	20
32	Effects of self-calibration of intrinsic alignment on cosmological parameter constraints from future cosmic shear surveys. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 056-056.	5.4	19
33	Matter power spectrum emulator for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math> modified gravity cosmologies. Physical Review D, 2021, 103, .	4.7	19
34	Tolman type VII solution, trapped null orbits, andw-modes. Physical Review D, 2001, 64, .	4.7	17
35	Effect of inhomogeneities on high precision measurements of cosmological distances. Physical Review D, 2014, 90, .	4.7	17
36	Testing gravity theories using tensor perturbations. Physical Review D, 2016, 94, .	4.7	17

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37	Stringent Restriction from the Growth of Large-Scale Structure on Apparent Acceleration in Inhomogeneous Cosmological Models. Physical Review Letters, 2013, 111, 251302.	7.8	16
38	The effects of structure anisotropy on lensing observables in an exact general relativistic setting for precision cosmology. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 040-040.	5.4	16
39	Cosmological discordances. III. More on measure properties, large-scale-structure constraints, the Hubble constant and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Planck</mml:mi></mml:math> data. Physical Review D, 2019, 100, .	4.7	16
40	Current constraints on deviations from General Relativity using binning in redshift and scale. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 018-018.	5.4	16
41	A Bayesian interpretation of inconsistency measures in cosmology. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 009.	5.4	15
42	A minimal set of invariants as a systematic approach to higher order gravity models. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 024-024.	5.4	13
43	Exact solutions withwmodes. Physical Review D, 2001, 64, .	4.7	10
44	Supernova, baryon acoustic oscillations, and CMB surface distance constraints onf(G)higher order gravity models. Physical Review D, 2010, 81, .	4.7	10
45	Self-calibration method for II and GI types of intrinsic alignments of galaxies. Monthly Notices of the Royal Astronomical Society, 2019, 483, 276-288.	4.4	10
46	An online interactive geometric database including exact solutions of Einstein's field equations. Classical and Quantum Gravity, 2002, 19, 505-514.	4.0	8
47	Inverse approach to Einsteinâ€™s equations for nonconducting fluids. Physical Review D, 2003, 68, .	4.7	7
48	Separating the intrinsic alignment signal and the lensing signal using self-calibration in photo-z surveys with KiDS450 and KV450 Data. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3900-3919.	4.4	7
49	Effects of anisotropy on gravitational infall in galaxy clusters using an exact general relativistic model. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 048-048.	5.4	6
50	Perfect fluid models in noncomoving observational spherical coordinates. Physical Review D, 2004, 69, .	4.7	5
51	A minimal set of invariants as a systematic approach to higher order gravity models: physical and cosmological constraints. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 020-020.	5.4	5
52	Expansion and growth of structure observables in a macroscopic gravity averaged universe. Physical Review D, 2015, 91, .	4.7	5
53	Testing deviations from GR at cosmological scales including dynamical dark energy, massive neutrinos, functional or binned parametrizations, and spatial curvature. Physical Review D, 2019, 100, .	4.7	5
54	Adiabatic Models of the Cosmological Radiative Era. General Relativity and Gravitation, 2002, 34, 1589-1616.	2.0	4

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55	First Detection of the GI-type of Intrinsic Alignments of Galaxies Using the Self-calibration Method in a Photometric Galaxy Survey. Astrophysical Journal Letters, 2020, 899, L5.	8.3	4
56	Averaged universe confronted with cosmological observations: A fully covariant approach. Physical Review D, 2016, 94, .	4.7	2
57	Singling out modified gravity parameters and data sets reveals a dichotomy between Planck and lensing. Monthly Notices of the Royal Astronomical Society, 2021, 506, 1704-1714.	4.4	2
58	Inverse approach to Einsteinâ€™s equations for fluids with vanishing anisotropic stress tensor. Physical Review D, 2008, 77, .	4.7	1
59	APPARENT ACCELERATION DUE TO RELATIVISTIC COSMOLOGICAL MODELS MORE COMPLEX THAN FLRW AS A POSSIBLE ALTERNATIVE TO DARK ENERGY. , 2012, , .		0