

# Mustapha Ishak

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5278983/publications.pdf>

Version: 2024-02-01

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. <i>Journal of High Energy Astrophysics</i> , 2022, 34, 49-211.	6.7	350
2	The LSST DESC DC2 Simulated Sky Survey. <i>Astrophysical Journal, Supplement Series</i> , 2021, 253, 31.	7.7	32
3	A Bayesian interpretation of inconsistency measures in cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 009.	5.4	15
4	Singling out modified gravity parameters and data sets reveals a dichotomy between Planck and lensing. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1704-1714.	4.4	2
5	Matter power spectrum emulator for $f\sigma_8$ modified gravity cosmologies. <i>Physical Review D</i> , 2021, 103, .	4.7	19
6	Towards testing the theory of gravity with DESI: summary statistics, model predictions and future simulation requirements. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 050.	5.4	41
7	Separating the intrinsic alignment signal and the lensing signal using self-calibration in photo- $z$ surveys with KiDS450 and KV450 Data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 3900-3919.	4.4	7
8	Current constraints on deviations from General Relativity using binning in redshift and scale. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 018-018.	5.4	16
9	First Detection of the GI-type of Intrinsic Alignments of Galaxies Using the Self-calibration Method in a Photometric Galaxy Survey. <i>Astrophysical Journal Letters</i> , 2020, 899, L5.	8.3	4
10	Core Cosmology Library: Precision Cosmological Predictions for LSST. <i>Astrophysical Journal, Supplement Series</i> , 2019, 242, 2.	7.7	130
11	Self-calibration method for II and GI types of intrinsic alignments of galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 276-288.	4.4	10
12	Cosmological discordances. III. More on measure properties, large-scale-structure constraints, the Hubble constant and $\sigma_8$ data. <i>Physical Review D</i> , 2019, 100, .	4.7	16
13	Testing deviations from GR at cosmological scales including dynamical dark energy, massive neutrinos, functional or binned parametrizations, and spatial curvature. <i>Physical Review D</i> , 2019, 100, .	4.7	5
14	Testing general relativity in cosmology. <i>Living Reviews in Relativity</i> , 2019, 22, 1.	26.7	265
15	Cosmological discordances: A new measure, marginalization effects, and application to geometry versus growth current data sets. <i>Physical Review D</i> , 2017, 96, .	4.7	58
16	Effects of self-calibration of intrinsic alignment on cosmological parameter constraints from future cosmic shear surveys. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 056-056.	5.4	19
17	Cosmological discordances. II. Hubble constant, Planck and large-scale-structure data sets. <i>Physical Review D</i> , 2017, 96, .	4.7	73
18	Testing gravity theories using tensor perturbations. <i>Physical Review D</i> , 2016, 94, .	4.7	17

#	ARTICLE	IF	CITATIONS
19	Averaged universe confronted with cosmological observations: A fully covariant approach. <i>Physical Review D</i> , 2016, 94, .	4.7	2
20	Constraints and tensions in testing general relativity from Planck and CFHTLenS data including intrinsic alignment systematics. <i>Physical Review D</i> , 2015, 92, .	4.7	36
21	Expansion and growth of structure observables in a macroscopic gravity averaged universe. <i>Physical Review D</i> , 2015, 91, .	4.7	5
22	The intrinsic alignment of galaxies and its impact on weak gravitational lensing in an era of precision cosmology. <i>Physics Reports</i> , 2015, 558, 1-59.	25.6	216
23	Effect of inhomogeneities on high precision measurements of cosmological distances. <i>Physical Review D</i> , 2014, 90, .	4.7	17
24	The effects of structure anisotropy on lensing observables in an exact general relativistic setting for precision cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 040-040.	5.4	16
25	Cross-correlation between cosmic microwave background lensing and galaxy intrinsic alignment as a contaminant to gravitational lensing cross-correlated probes of the Universe. <i>Physical Review D</i> , 2014, 89, .	4.7	37
26	Stringent Restriction from the Growth of Large-Scale Structure on Apparent Acceleration in Inhomogeneous Cosmological Models. <i>Physical Review Letters</i> , 2013, 111, 251302.	7.8	16
27	Effects of dark energy perturbations on cosmological tests of general relativity. <i>Physical Review D</i> , 2013, 88, .	4.7	30
28	Effects of anisotropy on gravitational infall in galaxy clusters using an exact general relativistic model. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 048-048.	5.4	6
29	Large-scale growth evolution in the Szekeres inhomogeneous cosmological models with comparison to growth data. <i>Physical Review D</i> , 2012, 86, .	4.7	24
30	Spatial curvature and cosmological tests of general relativity. <i>Physical Review D</i> , 2012, 86, .	4.7	46
31	Growth of structure in the Szekeres class-II inhomogeneous cosmological models and the matter-dominated era. <i>Physical Review D</i> , 2012, 85, .	4.7	33
32	Self-calibration for three-point intrinsic alignment autocorrelations in weak lensing surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 1663-1673.	4.4	21
33	APPARENT ACCELERATION DUE TO RELATIVISTIC COSMOLOGICAL MODELS MORE COMPLEX THAN FLRW AS A POSSIBLE ALTERNATIVE TO DARK ENERGY. , 2012, , .		0
34	Luminosity distance and redshift in the Szekeres inhomogeneous cosmological models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 028-028.	5.4	36
35	Figures of merit and constraints from testing general relativity using the latest cosmological data sets including refined COSMOS 3D weak lensing. <i>Physical Review D</i> , 2011, 84, .	4.7	35
36	Testing general relativity at cosmological scales: Implementation and parameter correlations. <i>Physical Review D</i> , 2011, 84, .	4.7	69

#	ARTICLE	IF	CITATIONS
37	The relevance of the cosmological constant for lensing. <i>General Relativity and Gravitation</i> , 2010, 42, 2247-2268.	2.0	54
38	Constraints on growth index parameters from current and future observations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 022-022.	5.4	38
39	Supernova, baryon acoustic oscillations, and CMB surface distance constraints on higher order gravity models. <i>Physical Review D</i> , 2010, 81, .	4.7	10
40	Growth factor parametrization in curved space. <i>Physical Review D</i> , 2009, 80, .	4.7	41
41	A minimal set of invariants as a systematic approach to higher order gravity models: physical and cosmological constraints. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 020-020.	5.4	5
42	A minimal set of invariants as a systematic approach to higher order gravity models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 024-024.	5.4	13
43	Contiguous redshift parameterizations of the growth index. <i>Physical Review D</i> , 2009, 80, .	4.7	43
44	Light deflection, lensing, and time delays from gravitational potentials and Fermat's principle in the presence of a cosmological constant. <i>Physical Review D</i> , 2008, 78, .	4.7	23
45	Dark energy or apparent acceleration due to a relativistic cosmological model more complex than the Friedmann-Lemaître-Robertson-Walker model?. <i>Physical Review D</i> , 2008, 78, .	4.7	41
46	Inverse approach to Einstein's equations for fluids with vanishing anisotropic stress tensor. <i>Physical Review D</i> , 2008, 77, .	4.7	1
47	Contribution of the cosmological constant to the relativistic bending of light revisited. <i>Physical Review D</i> , 2007, 76, .	4.7	163
48	Remarks on the Formulation of the Cosmological Constant/Dark Energy Problems. <i>Foundations of Physics</i> , 2007, 37, 1470-1498.	1.3	47
49	Probing cosmic acceleration beyond the equation of state: Distinguishing between dark energy and modified gravity models. <i>Physical Review D</i> , 2006, 74, .	4.7	196
50	Spectroscopic source redshifts and parameter constraints from weak lensing and the cosmic microwave background. <i>Physical Review D</i> , 2005, 71, .	4.7	20
51	Dynamical dark energy: Current constraints and forecasts. <i>Physical Review D</i> , 2005, 72, .	4.7	154
52	Weak lensing and CMB: Parameter forecasts including a running spectral index. <i>Physical Review D</i> , 2004, 69, .	4.7	41
53	Perfect fluid models in noncomoving observational spherical coordinates. <i>Physical Review D</i> , 2004, 69, .	4.7	5
54	Inverse approach to Einstein's equations for nonconducting fluids. <i>Physical Review D</i> , 2003, 68, .	4.7	7

#	ARTICLE	IF	CITATIONS
55	An online interactive geometric database including exact solutions of Einstein's field equations. <i>Classical and Quantum Gravity</i> , 2002, 19, 505-514.	4.0	8
56	Adiabatic Models of the Cosmological Radiative Era. <i>General Relativity and Gravitation</i> , 2002, 34, 1589-1616.	2.0	4
57	Exact solutions with modes. <i>Physical Review D</i> , 2001, 64, .	4.7	10
58	Tolman type VII solution, trapped null orbits, and modes. <i>Physical Review D</i> , 2001, 64, .	4.7	17
59	Intrinsic galaxy alignments from the 2SLAQ and SDSS surveys: luminosity and redshift scalings and implications for weak lensing surveys. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 381, 1197-1218.	4.4	210