Karim A Malik

List of Publications by Year
in descending order

63	3,662	236925 25	138484 58
papers	citations	h-index	g-index

63	63	63	1162
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Galaxy number counts at second order: an independent approach. Classical and Quantum Gravity, 2021, 38, 065014.	4.0	3
2	The intrinsic bispectrum of the CMB from isocurvature initial conditions. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 046.	5.4	1
3	Contributions from primordial non-Gaussianity and general relativity to the galaxy power spectrum. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 025.	5.4	1
4	Relativistic and non-Gaussianity contributions to the one-loop power spectrum. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 028-028.	5.4	3
5	Viable gauge choices in cosmologies with nonlinear structures. Physical Review D, 2020, 101, .	4.7	15
6	Magnetogenesis from isocurvature initial conditions. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 028-028.	5.4	4
7	How Cosmologists Explain the Universe to Friends and Family. Astronomers' Universe, 2019, , .	0.0	2
8	Dissecting the growth of the power spectrum for primordial black holes. Physical Review D, 2019, 100, .	4.7	73
9	Isocurvature initial conditions for second order Boltzmann solvers. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 020-020.	5.4	6
10	Double power series method for approximating cosmological perturbations. Physical Review D, 2017, 95, .	4.7	0
11	Cosmology on all scales: A two-parameter perturbation expansion. Physical Review D, 2017, 95, .	4.7	20
12	Linear density perturbations in multifield coupled quintessence. Physical Review D, 2017, 95, .	4.7	8
13	Vector and tensor contributions to the curvature perturbation at second order. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 021-021.	5.4	13
14	Second-order cosmological perturbation theory and initial conditions for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>-body simulations. Physical Review D, 2016, 93, .	4.7	12
15	Conserved quantities in Lemaitreâ€“Tolmanâ€“Bondi cosmology. Classical and Quantum Gravity, 2015, 32, 015010.	4.0	5
16	A short note on the curvature perturbation at second order. Classical and Quantum Gravity, 2015, 32, 075005.	4.0	5
17	VORTICITY FROM ISOCURVATURE IN THE EARLY UNIVERSE. , 2015, , .		1
18	QUANTIFYING THE BEHAVIOUR OF CURVATURE PERTURBATIONS NEAR HORIZON CROSSING. , 2015, , .		0

#	Article	IF	Citations
19	Effects of non-linearities on magnetic field generation. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 023-023.	5.4	12
20	Formation of subhorizon black holes from preheating. Physical Review D, 2014, 89, .	4.7	21
21	Comments on gauge-invariance in cosmology. General Relativity and Gravitation, 2013, 45, 1989-2001.	2.0	7
22	The Poisson equation at second order in relativistic cosmology. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 026-026.	5.4	16
23	Modelling non-dust fluids in cosmology. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 002-002.	5.4	18
24	Quantifying the behaviour of curvature perturbations during inflation. Classical and Quantum Gravity, 2013, 30, 065008.	4.0	6
25	Effect of curvaton decay on the primordial power spectrum. Physical Review D, 2013, 87, .	4.7	4
26	The magnitude of the non-adiabatic pressure in the cosmic fluid. Monthly Notices of the Royal Astronomical Society, 2012, 423, 1411-1415.	4.4	9
27	Estimating the amount of vorticity generated by cosmological perturbations in the early universe. Physical Review D, 2011, 83, .	4.7	21
28	Second order perturbations during inflation beyond slow-roll. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 029-029.	5.4	13
29	Comparing two different formulations of metric cosmological perturbation theory. Classical and Quantum Gravity, 2011, 28, 225024.	4.0	11
30	Can cosmological perturbations produce early universe vorticity?. Classical and Quantum Gravity, 2011, 28, 114004.	4.0	29
31	How the curvaton scenario, modulated reheating and an inhomogeneous end of inflation are related. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 037-037.	5.4	14
32	Gauges and cosmological backreaction. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 027-027.	5.4	26
33	Numerical calculation of second order perturbations. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 019-019.	5.4	24
34	Practical tools for third order cosmological perturbations. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 012-012.	5.4	9
35	Cosmological perturbations. Physics Reports, 2009, 475, 1-51.	25.6	450
36	The non-adiabatic pressure in general scalar field systems. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 675, 159-163.	4.1	71

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37	Generalized constraints on the curvature perturbation from primordial black holes. Physical Review D, 2009, 79, .	4.7	157
38	Vorticity generation at second order in cosmological perturbation theory. Physical Review D, 2009, 79, .	4.7	38
39	A concise introduction to perturbation theory in cosmology. Classical and Quantum Gravity, 2008, 25, 193001.	4.0	32
40	Scaling cosmologies from duality twisted compactifications. Classical and Quantum Gravity, 2008, 25, 065004.	4.0	0
41	Different approaches to the second-order Kleinâ€“Gordon equation. Classical and Quantum Gravity, 2008, 25, 175008.	4.0	8
42	Non-Gaussianity of inflationary field perturbations from the field equation. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 014.	5.4	47
43	A not so short note on the Kleinâ€“Gordon equation at second order. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 004-004.	5.4	32
44	Constraints on the primordial curvature perturbation from primordial black holes. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 010-010.	5.4	38
45	A numerical study of non-Gaussianity in the curvaton scenario. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 008-008.	5.4	112
46	Forming sub-horizon black holes at the end of inflation. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 011-011.	5.4	34
47	Adiabatic and entropy perturbations with interacting fluids and fields. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 007-007.	5.4	94
48	A general proof of the conservation of the curvature perturbation. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 004-004.	5.4	576
49	Gauge-invariant perturbations at second order: multiple scalar fields on large scales. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 005-005.	5.4	52
50	Evolution of second-order cosmological perturbations. Classical and Quantum Gravity, 2004, 21, L65-L71.	4.0	148
51	WMAP, neutrino degeneracy, and non-Gaussianity constraints on isocurvature perturbations in the curvaton model of inflation. Physical Review D, 2004, 69, .	4.7	44
52	New calculation of the mass fraction of primordial black holes. Physical Review D, 2004, 70, .	4.7	128
53	Curvature and isocurvature perturbations in a three-fluid model of curvaton decay. Physical Review D, 2004, 69, .	4.7	42
54	Large-scale curvature and entropy perturbations for multiple interacting fluids. Physical Review D, 2003, 67, .	4.7	160

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55	Defining perturbations on submanifolds. Physical Review D, 2003, 68, .	4.7	3
56	Cosmological perturbations in the bulk and on the brane. Physical Review D, 2002, 65, .	4.7	78
57	Superhorizon perturbations and preheating. AIP Conference Proceedings, 2001, , .	0.4	1
58	Cosmic vorticity on the brane. Physical Review D, 2001, 63, .	4.7	24
59	Primordial black hole production due to preheating. Physical Review D, 2001, 64, .	4.7	69
60	Super-horizon perturbations and preheating. Physical Review D, 2000, 61, .	4.7	71
61	New approach to the evolution of cosmological perturbations on large scales. Physical Review D, 2000, 62, .	4.7	631
62	Dynamics of assisted inflation. Physical Review D, 1999, 59, .	4.7	109
63	Galaxy number counts at second order in perturbation theory: a leading-order term comparison. Classical and Quantum Gravity, 0, , .	4.0	1