

David J   Marsh

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

4,759
citations

172457
29
h-index

330143
37
g-index

37
all docs

37
docs citations

37
times ranked

3579
citing authors

#	ARTICLE	IF	CITATIONS
1	Axion cosmology. Physics Reports, 2016, 643, 1-79.	25.6	1,212
2	Cosmology and Fundamental Physics with the Euclid Satellite. Living Reviews in Relativity, 2013, 16, 6.	26.7	683
3	Cosmology and fundamental physics with the Euclid satellite. Living Reviews in Relativity, 2018, 21, 2.	26.7	602
4	A search for ultralight axions using precision cosmological data. Physical Review D, 2015, 91, .	4.7	299
5	Axion dark matter, solitons and the cuspy core problem. Monthly Notices of the Royal Astronomical Society, 2015, 451, 2479-2492.	4.4	203
6	A model for halo formation with axion mixed dark matter. Monthly Notices of the Royal Astronomical Society, 2014, 437, 2652-2663.	4.4	174
7	Galaxy UV-luminosity function and reionization constraints on axion dark matter. Monthly Notices of the Royal Astronomical Society, 2015, 450, 209-222.	4.4	121
8	Strong Constraints on Fuzzy Dark Matter from Ultrafaint Dwarf Galaxy Eridanus II. Physical Review Letters, 2019, 123, 051103.	7.8	116
9	Using the full power of the cosmic microwave background to probe axion dark matter. Monthly Notices of the Royal Astronomical Society, 2018, 476, 3063-3085.	4.4	106
10	Black hole formation from axion stars. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 055-055.	5.4	105
11	Proposal to Detect Dark Matter using Axionic Topological Antiferromagnets. Physical Review Letters, 2019, 123, 121601.	7.8	93
12	Structure formation and microlensing with axion miniclusters. Physical Review D, 2018, 97, .	4.7	84
13	The wasteland of random supergravities. Journal of High Energy Physics, 2012, 2012, 1.	4.7	75
14	Black hole spin constraints on the mass spectrum and number of axionlike fields. Physical Review D, 2018, 98, .	4.7	66
15	Axion dark matter: What is it and why now?. Science Advances, 2022, 8, eabj3618.	10.3	66
16	Future CMB tests of dark matter: Ultralight axions and massive neutrinos. Physical Review D, 2017, 95, .	4.7	60
17	Superradiance in string theory. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 033.	5.4	58
18	An ultralight pseudoscalar boson. Physical Review D, 2016, 93, .	4.7	56

#	ARTICLE	IF	CITATIONS
19	Tensor Interpretation of BICEP2 Results Severely Constrains Axion Dark Matter. Physical Review Letters, 2014, 113, 011801.	7.8	51
20	Axion quasiparticles for axion dark matter detection. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 066.	5.4	51
21	Searching for the QCD Axion with Gravitational Microlensing. Physical Review Letters, 2017, 119, 021101.	7.8	50
22	New insights into the formation and growth of boson stars in dark matter halos. Physical Review D, 2021, 104, .	4.7	43
23	Nonlinear hydrodynamics of axion dark matter: Relative velocity effects and quantum forces. Physical Review D, 2015, 91, .	4.7	42
24	The effects of the small-scale DM power on the cosmological neutral hydrogen (HI) distribution at high redshifts. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 012-012.	5.4	42
25	Unifying inflation and dark matter with the Peccei-Quinn field: Observable axions and observable tensors. Physical Review D, 2015, 91, .	4.7	39
26	Formation of relativistic axion stars. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 005-005.	5.4	38
27	Spectrum of the axion dark sector. Physical Review D, 2017, 96, .	4.7	36
28	Sequestering in string compactifications. Journal of High Energy Physics, 2011, 2011, 1.	4.7	35
29	Supersymmetric vacua in random supergravity. Journal of High Energy Physics, 2013, 2013, 1.	4.7	33
30	Quintessence in a quandary: Prior dependence in dark energy models. Physical Review D, 2014, 90, .	4.7	29
31	Constraining supersymmetry with heavy scalars: Using the CMB. Physical Review D, 2014, 89, .	4.7	20
32	Axion miniclusters made easy. Physical Review D, 2021, 103, .	4.7	19
33	Superpotential de-sequestering in string models. Journal of High Energy Physics, 2013, 2013, 1.	4.7	15
34	Towards constraining Affleck-Dine baryogenesis. Journal of High Energy Physics, 2012, 2012, 1.	4.7	14
35	Ultralight axions and the kinetic Sunyaev-Zelâ€™dovich effect. Physical Review D, 2022, 105, .	4.7	10
36	Relaxation times for Bose-Einstein condensation by self-interaction and gravity. Physical Review D, 2022, 106, .	4.7	9

#	ARTICLE	IF	CITATIONS
37	Probing virtual axion-like particles by precision phase measurements. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 012.	5.4	4