

Bradley J Kavanagh

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,139
citations

279798

23
h-index

302126

39
g-index

40
all docs

40
docs citations

40
times ranked

1944
citing authors

#	ARTICLE	IF	CITATIONS
1	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	4.0	451
2	Primordial black holes as a dark matter candidate. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2021, 48, 043001.	3.6	303
3	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. <i>EPJ Quantum Technology</i> , 2020, 7, .	6.3	190
4	Merger rate of a subdominant population of primordial black holes. <i>Physical Review D</i> , 2018, 98, .	4.7	83
5	New horizons for fundamental physics with LISA. <i>Living Reviews in Relativity</i> , 2022, 25, .	26.7	82
6	You can hide but you have to run: direct detection with vector mediators. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	75
7	Prospects for exploring New Physics in Coherent Elastic Neutrino-Nucleus Scattering. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 016-016.	5.4	72
8	Detecting dark matter around black holes with gravitational waves: Effects of dark-matter dynamics on the gravitational waveform. <i>Physical Review D</i> , 2020, 102, .	4.7	63
9	Signatures of Earth-scattering in the direct detection of Dark Matter. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 012-012.	5.4	61
10	Earth scattering of superheavy dark matter: Updated constraints from detectors old and new. <i>Physical Review D</i> , 2018, 97, .	4.7	59
11	WIMP physics with ensembles of direct-detection experiments. <i>Physics of the Dark Universe</i> , 2014, 5-6, 45-74.	4.9	57
12	Gravitational wave probes of dark matter: challenges and opportunities. <i>SciPost Physics Core</i> , 2020, 3, .	2.8	52
13	Model Independent Determination of the Dark Matter Mass from Direct Detection Experiments. <i>Physical Review Letters</i> , 2013, 111, 031302.	7.8	45
14	Probing leptophilic dark sectors with hadronic processes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 771, 339-348.	4.1	36
15	Unique Multimessenger Signal of QCD Axion Dark Matter. <i>Physical Review Letters</i> , 2020, 124, 161101.	7.8	36
16	Improved determination of the WIMP mass from direct detection data. <i>Physical Review D</i> , 2012, 86, .	4.7	34
17	Faint light from dark matter: classifying and constraining dark matter-photon effective operators. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	33
18	Measuring the dark matter environments of black hole binaries with gravitational waves. <i>Physical Review D</i> , 2022, 105, .	4.7	29

#	ARTICLE	IF	CITATIONS
19	Scattering Searches for Dark Matter in Subhalos: Neutron Stars, Cosmic Rays, and Old Rocks. <i>Physical Review Letters</i> , 2022, 128, .	7.8	28
20	New directional signatures from the nonrelativistic effective field theory of dark matter. <i>Physical Review D</i> , 2015, 92, .	4.7	25
21	Primordial black holes as silver bullets for new physics at the weak scale. <i>Physical Review D</i> , 2019, 100, .	4.7	25
22	Probing WIMP particle physics and astrophysics with direct detection and neutrino telescope data. <i>Physical Review D</i> , 2015, 91, .	4.7	24
23	INTEGRAL x-ray constraints on sub-GeV dark matter. <i>Physical Review D</i> , 2021, 103, .	4.7	24
24	The effect of mission duration on LISA science objectives. <i>General Relativity and Gravitation</i> , 2022, 54, 3.	2.0	24
25	Transient Radio Signatures from Neutron Star Encounters with QCD Axion Miniclusters. <i>Physical Review Letters</i> , 2021, 127, 131103.	7.8	23
26	Digging for dark matter: Spectral analysis and discovery potential of paleo-detectors. <i>Physical Review D</i> , 2019, 99, .	4.7	21
27	Stellar disruption of axion miniclusters in the Milky Way. <i>Physical Review D</i> , 2021, 104, .	4.7	21
28	Bracketing the impact of astrophysical uncertainties on local dark matter searches. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 018-018.	5.4	20
29	Parametrizing the local dark matter speed distribution: A detailed analysis. <i>Physical Review D</i> , 2014, 89, .	4.7	19
30	Reconstructing the three-dimensional local dark matter velocity distribution. <i>Physical Review D</i> , 2016, 94, .	4.7	19
31	Precision constraints on radiative neutrino decay with CMB spectral distortion. <i>Physical Review D</i> , 2018, 98, .	4.7	18
32	Prospects for determining the particle/antiparticle nature of WIMP dark matter with direct detection experiments. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	4.7	17
33	Time-integrated directional detection of dark matter. <i>Physical Review D</i> , 2017, 96, .	4.7	15
34	Paleodetectors for Galactic supernova neutrinos. <i>Physical Review D</i> , 2020, 101, .	4.7	14
35	Assessing Near-Future Direct Dark Matter Searches with Benchmark-Free Forecasting. <i>Physical Review Letters</i> , 2018, 121, 181101.	7.8	12
36	Impact of substructure on local dark matter searches. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 013-013.	5.4	11

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37	Discretising the velocity distribution for directional dark matter experiments. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 019-019.	5.4	10
38	Discovery prospects of dwarf spheroidal galaxies for indirect dark matter searches. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 040-040.	5.4	6
39	Measuring the local dark matter density in the laboratory. Physical Review D, 2021, 104, .	4.7	2
40	Constraining sub-GeV dark matter with the Integral data. Journal of Physics: Conference Series, 2021, 2156, 012033.	0.4	0