

Gianfranco Bertone

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

5,625
citations

236925

25
h-index

414414

32
g-index

32
all docs

32
docs citations

32
times ranked

8931
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle dark matter: evidence, candidates and constraints. <i>Physics Reports</i> , 2005, 405, 279-390.	25.6	3,454
2	Black holes, gravitational waves and fundamental physics: a roadmap. <i>Classical and Quantum Gravity</i> , 2019, 36, 143001.	4.0	451
3	A new era in the search for dark matter. <i>Nature</i> , 2018, 562, 51-56.	27.8	259
4	New signature of dark matter annihilations: Gamma rays from intermediate-mass black holes. <i>Physical Review D</i> , 2005, 72, .	4.7	132
5	Time-dependent models for dark matter at the galactic center. <i>Physical Review D</i> , 2005, 72, .	4.7	124
6	The moment of truth for WIMP dark matter. <i>Nature</i> , 2010, 468, 389-393.	27.8	117
7	Searching for Primordial Black Holes in the Radio and X-Ray Sky. <i>Physical Review Letters</i> , 2017, 118, 241101.	7.8	114
8	A realistic assessment of the CTA sensitivity to dark matter annihilation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 055-055.	5.4	100
9	Merger rate of a subdominant population of primordial black holes. <i>Physical Review D</i> , 2018, 98, .	4.7	83
10	New horizons for fundamental physics with LISA. <i>Living Reviews in Relativity</i> , 2022, 25, .	26.7	82
11	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
12	Global fits of the cMSSM including the first LHC and XENON100 data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 015-015.	5.4	53
13	Gravitational wave probes of dark matter: challenges and opportunities. <i>SciPost Physics Core</i> , 2020, 3, .	2.8	52
14	Global analysis of the pMSSM in light of the Fermi GeV excess: prospects for the LHC Run-II and astroparticle experiments. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 037-037.	5.4	48
15	Evidence of a population of dark subhaloes from <i>Gaia</i> and Pan-STARRS observations of the GD-1 stream. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 2364-2380.	4.4	47
16	Collisionally regenerated dark matter structures in galactic nuclei. <i>Physical Review D</i> , 2007, 75, .	4.7	46
17	Multi-wavelength astronomical searches for primordial black holes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 026-026.	5.4	44
18	Probing the nature of dark matter particles with stellar streams. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 061-061.	5.4	41

#	ARTICLE	IF	CITATIONS
19	Fundamental statistical limitations of future dark matter direct detection experiments. <i>Physical Review D</i> , 2012, 86, .	4.7	38
20	Prospects for detecting dark matter with neutrino telescopes in intermediate mass black hole scenarios. <i>Physical Review D</i> , 2006, 73, .	4.7	32
21	Identifying WIMP dark matter from particle and astroparticle data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 026-026.	5.4	31
22	Dark matter subhalos and unidentified sources in the Fermi 3FGL source catalog. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 028-028.	5.4	30
23	Ionization of gravitational atoms. <i>Physical Review D</i> , 2022, 105, .	4.7	30
24	Measuring the dark matter environments of black hole binaries with gravitational waves. <i>Physical Review D</i> , 2022, 105, .	4.7	29
25	Primordial black holes as silver bullets for new physics at the weak scale. <i>Physical Review D</i> , 2019, 100, .	4.7	25
26	Effective field theory of dark matter: a global analysis. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	24
27	The effect of mission duration on LISA science objectives. <i>General Relativity and Gravitation</i> , 2022, 54, 3.	2.0	24
28	Sharp Signals of Boson Clouds in Black Hole Binary Inspirals. <i>Physical Review Letters</i> , 2022, 128, .	7.8	23
29	No WIMP mini-spikes in dwarf spheroidal galaxies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 004-004.	5.4	12
30	Towards constraining warm dark matter with stellar streams through neural simulation-based inference. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 1999-2011.	4.4	8
31	Multiwavelength detectability of isolated black holes in the Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 4036-4047.	4.4	5
32	LHC and dark matter phenomenology of the NUGHM. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	4