Gianfranco Bertone

List of Publications by Year
in descending order

32	5,625	236833	414303
papers	citations	25 h-index	32 g-index

32	32	32	8931
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Particle dark matter: evidence, candidates and constraints. Physics Reports, 2005, 405, 279-390.	10.3	3,454
2	Black holes, gravitational waves and fundamental physics: a roadmap. Classical and Quantum Gravity, 2019, 36, 143001.	1.5	451
3	A new era in the search for dark matter. Nature, 2018, 562, 51-56.	13.7	259
4	New signature of dark matter annihilations: Gamma rays from intermediate-mass black holes. Physical Review D, 2005, 72, .	1.6	132
5	Time-dependent models for dark matter at the galactic center. Physical Review D, 2005, 72, .	1.6	124
6	The moment of truth for WIMP dark matter. Nature, 2010, 468, 389-393.	13.7	117
7	Searching for Primordial Black Holes in the Radio and X-Ray Sky. Physical Review Letters, 2017, 118, 241101.	2.9	114
8	A realistic assessment of the CTA sensitivity to dark matter annihilation. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 055-055.	1.9	100
9	Merger rate of a subdominant population of primordial black holes. Physical Review D, 2018, 98, .	1.6	83
10	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	8.2	82
11	Detecting dark matter around black holes with gravitational waves: Effects of dark-matter dynamics on the gravitational waveform. Physical Review D, 2020, 102, .	1.6	63
12	Global fits of the cMSSM including the first LHC and XENON100 data. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 015-015.	1.9	53
13	Gravitational wave probes of dark matter: challenges and opportunities. SciPost Physics Core, 2020, 3, .	0.9	52
14	Global analysis of the pMSSM in light of the Fermi GeV excess: prospects for the LHC Run-II and astroparticle experiments. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 037-037.	1.9	48
15	Evidence of a population of dark subhaloes from Gaia and Pan-STARRS observations of the GD-1 stream. Monthly Notices of the Royal Astronomical Society, 2021, 502, 2364-2380.	1.6	47
16	Collisionally regenerated dark matter structures in galactic nuclei. Physical Review D, 2007, 75, .	1.6	46
17	Multi-wavelength astronomical searches for primordial black holes. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 026-026.	1.9	44
18	Probing the nature of dark matter particles with stellar streams. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 061-061.	1.9	41

#	Article	IF	Citations
19	Fundamental statistical limitations of future dark matter direct detection experiments. Physical Review D, 2012, 86, .	1.6	38
20	Prospects for detecting dark matter with neutrino telescopes in intermediate mass black hole scenarios. Physical Review D, 2006, 73, .	1.6	32
21	Identifying WIMP dark matter from particle and astroparticle data. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 026-026.	1.9	31
22	Dark matter subhalos and unidentified sources in the Fermi 3FGL source catalog. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 028-028.	1.9	30
23	Ionization of gravitational atoms. Physical Review D, 2022, 105, .	1.6	30
24	Measuring the dark matter environments of black hole binaries with gravitational waves. Physical Review D, 2022, 105, .	1.6	29
25	Primordial black holes as silver bullets for new physics at the weak scale. Physical Review D, 2019, 100, .	1.6	25
26	Effective field theory of dark matter: a global analysis. Journal of High Energy Physics, 2016, 2016, 1.	1.6	24
27	The effect of mission duration on LISA science objectives. General Relativity and Gravitation, 2022, 54, 3.	0.7	24
28	Sharp Signals of Boson Clouds in Black Hole Binary Inspirals. Physical Review Letters, 2022, 128, .	2.9	23
29	No WIMP mini-spikes in dwarf spheroidal galaxies. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 004-004.	1.9	12
30	Towards constraining warm dark matter with stellar streams through neural simulation-based inference. Monthly Notices of the Royal Astronomical Society, 2021, 507, 1999-2011.	1.6	8
31	Multiwavelength detectability of isolated black holes in the Milky Way. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4036-4047.	1.6	5
32	LHC and dark matter phenomenology of the NUGHM. Journal of High Energy Physics, 2014, 2014, 1.	1.6	4