Nicolao Fornengo

List of Publications by Year
in descending order

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100 papers	5,714 citations	61984 43 h-index	71685 76 g-index
101 all docs	101 docs citations	101 times ranked	3948 citing authors

#	Article	IF	Citations
1	Minimal dark matter. Nuclear Physics B, 2006, 753, 178-194.	2.5	763
2	Antiprotons in cosmic rays from neutralino annihilation. Physical Review D, 2004, 69, .	4.7	288
3	Positrons from dark matter annihilation in the galactic halo: Theoretical uncertainties. Physical Review D, 2008, 77, .	4.7	198
4	Antideuterons as a signature of supersymmetric dark matter. Physical Review D, 2000, 62, .	4.7	170
5	Galactic secondary positron flux at the Earth. Astronomy and Astrophysics, 2009, 501, 821-833.	5.1	164
6	Neutralino dark matter in supersymmetric models with non-universal scalar mass terms. Astroparticle Physics, 1996, 5, 1-26.	4.3	162
7	Effect of the galactic halo modeling on the DAMA-NaI annual modulation result: An extended analysis of the data for weakly interacting massive particles with a purely spin-independent coupling. Physical Review D, 2002, 66, .	4.7	161
8	Galactic electrons and positrons at the Earth: new estimate of the primary and secondary fluxes. Astronomy and Astrophysics, 2010, 524, A51.	5.1	155
9	Light relic neutralinos. Physical Review D, 2003, 67, .	4.7	148
10	Probing the supersymmetric parameter space by weakly interacting massive particle direct detection. Physical Review D, 2001, 63, .	4.7	133
11	Probing neutrino nonstandard interactions with atmospheric neutrino data. Physical Review D, 2001, 65, .	4.7	132
12	Light neutralinos and WIMP direct searches. Physical Review D, 2004, 69, .	4.7	129
13	Sneutrino cold dark matter, a new analysis: relic abundance and detection rates. Journal of High Energy Physics, 2007, 2007, 029-029.	4.7	122
14	Lower bound on the neutralino mass from new data on CMB and implications for relic neutralinos. Physical Review D, 2003, 68, .	4.7	121
15	Observations of annual modulation in direct detection of relic particles and light neutralinos. Physical Review D, 2011, 84, .	4.7	119
16	Neutralino annihilation intoÎ³rays in the Milky Way and in external galaxies. Physical Review D, 2004, 70, .	4.7	114
17	Spectra of neutrinos from dark matter annihilations. Nuclear Physics B, 2005, 727, 99-138.	2.5	113
18	Dark matter relic abundance and scalar-tensor dark energy. Physical Review D, 2004, 70, .	4.7	108

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19	Interpreting the recent results on direct searches for dark matter particles in terms of relic neutralinos. Physical Review D, 2008, 78, .	4.7	104
20	Size of the neutralinoâ€“nucleon cross-section in the light of a new determination of the pionâ€“nucleon sigma term. Astroparticle Physics, 2002, 18, 205-211.	4.3	90
21	Review of the theoretical and experimental status of dark matter identification with cosmic-ray antideuterons. Physics Reports, 2016, 618, 1-37.	25.6	85
22	Minimal Supergravity Scalar Neutrino Dark Matter and Inverse Seesaw Neutrino Masses. Physical Review Letters, 2008, 101, 161802.	7.8	82
23	Searching for relic neutralinos using neutrino telescopes. Astroparticle Physics, 1996, 5, 333-352.	4.3	79
24	Long-range forces in direct dark matter searches. Physical Review D, 2011, 84, .	4.7	78
25	Antideuteron fluxes from dark matter annihilation in diffusion models. Physical Review D, 2008, 78, .	4.7	74
26	Indirect signals from light neutralinos in supersymmetric models without gaugino mass unification. Physical Review D, 2004, 70, .	4.7	66
27	Possibility of a Dark Matter Interpretation for the Excess in Isotropic Radio Emission Reported by ARCADE. Physical Review Letters, 2011, 107, 271302.	7.8	63
28	Constraints on particle dark matter from cosmic-ray antiprotons. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 003-003.	5.4	58
29	Supersymmetric dark matter and the reheating temperature of the universe. Physical Review D, 2003, 67, .	4.7	57
30	Sterile neutrinos: Cosmology versus short-baseline experiments. Physical Review D, 2013, 87, .	4.7	55
31	Relic neutralinos and the two dark matter candidate events of the CDMS II experiment. Physical Review D, 2010, 81, .	4.7	52
32	A NOVEL APPROACH IN THE WEAKLY INTERACTING MASSIVE PARTICLE QUEST: CROSS-CORRELATION OF GAMMA-RAY ANISOTROPIES AND COSMIC SHEAR. Astrophysical Journal Letters, 2013, 771, L5.	8.3	51
33	Testing3+1and3+2neutrino mass models with cosmology and short baseline experiments. Physical Review D, 2012, 86, .	4.7	50
34	Discussing direct search of dark matter particles in the minimal supersymmetric extension of the standard model with light neutralinos. Physical Review D, 2011, 83, .	4.7	49
35	Dark matter searches with cosmic antideuterons: status and perspectives. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 031-031.	5.4	49
36	Thermal relics in modified cosmologies: Bounds on evolution histories of the early Universe and cosmological boosts for PAMELA. Physical Review D, 2010, 81, .	4.7	48

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37	Light sterile neutrinos after BICEP-2. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 031-031.	5.4	46
38	Prospects to verify a possible dark matter hint in cosmic antiprotons with antideuterons and antihelium. Physical Review D, 2018, 97, .	4.7	46
39	Particle Dark Matter Searches Outside the Local Group. Physical Review Letters, 2015, 114, 241301.	7.8	45
40	Zooming in on light relic neutralinos by direct detection and measurements of galactic antimatter. Physical Review D, 2008, 77, .	4.7	44
41	Dark matter vs. astrophysics in the interpretation of AMS-02 electron and positron data. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 031-031.	5.4	44
42	Anti-helium from dark matter annihilations. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
43	EVIDENCE OF CROSS-CORRELATION BETWEEN THE CMB LENSING AND THE Î³ -RAY SKY. Astrophysical Journal Letters, 2015, 802, L1.	8.3	43
44	DARK MATTER SEARCHES IN THE GAMMA-RAY EXTRAGALACTIC BACKGROUND VIA CROSS-CORRELATIONS WITH GALAXY CATALOGS. Astrophysical Journal, Supplement Series, 2015, 221, 29.	7.7	43
45	Antiproton fluxes from light neutralinos. Physical Review D, 2005, 72, .	4.7	42
46	Particle dark matter searches in the anisotropic sky. Frontiers in Physics, 2014, 2, .	2.1	42
47	Does solar physics provide constraints to weakly interacting massive particles?. Physical Review D, 2002, 66, .	4.7	41
48	Galactic synchrotron emission from WIMPs at radio frequencies. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 005-005.	5.4	40
49	UNVEILING THE GAMMA-RAY SOURCE COUNT DISTRIBUTION BELOW THE FERMI DETECTION LIMIT WITH PHOTON STATISTICS. Astrophysical Journal, Supplement Series, 2016, 225, 18.	7.7	38
50	Do current WIMP direct measurements constrain light relic neutralinos?. Physical Review D, 2005, 72, .	4.7	36
51	Phenomenology of light neutralinos in view of recent results at the CERN Large Hadron Collider. Physical Review D, 2012, 85, .	4.7	36
52	On the interpretation of the atmospheric neutrino data in terms of flavor changing neutrino interactions. Journal of High Energy Physics, 2000, 2000, 006-006.	4.7	35
53	Investigating light neutralinos at neutrino telescopes. Physical Review D, 2009, 80, .	4.7	35
54	The isotropic radio background revisited. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 008-008.	5.4	35

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55	STATISTICAL MEASUREMENT OF THE GAMMA-RAY SOURCE-COUNT DISTRIBUTION AS A FUNCTION OF ENERGY. Astrophysical Journal Letters, 2016, 826, L31.	8.3	35
56	Temporal distortion of the annual modulation signal of weakly interacting massive particles at low recoil energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 576, 189-194.	4.1	32
57	Constraining pre-big-bang nucleosynthesis expansion using cosmic antiprotons. Physical Review D, 2006, 74, .	4.7	32
58	Cosmological radio emission induced by WIMP Dark Matter. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 033-033.	5.4	27
59	CROSS-CORRELATING THE Î³-RAY SKY WITH CATALOGS OF GALAXY CLUSTERS. Astrophysical Journal, Supplement Series, 2017, 228, 8.	7.7	26
60	Light neutralinos at CERN LHC in cosmologically inspired scenarios: New benchmarks in the search for supersymmetry. Physical Review D, 2008, 77, .	4.7	25
61	INTEGRAL x-ray constraints on sub-GeV dark matter. Physical Review D, 2021, 103, .	4.7	24
62	Implications of a possible 115 GeV supersymmetric Higgs boson on detection and cosmological abundance of relic neutralinos. Nuclear Physics B, 2001, 608, 461-474.	2.5	23
63	Enlarging minimal-supergravity parameter space by decreasing pre-nucleosynthesis Hubble rate in scalar-tensor cosmologies. Journal of High Energy Physics, 2008, 2008, 003-003.	4.7	23
64	Impact of the recent results by the CMS and ATLAS collaborations at the CERN Large Hadron Collider on an effective minimal supersymmetric extension of the standard model. Physical Review D, 2011, 83, .	4.7	22
65	Unresolved Gamma-Ray Sky through its Angular Power Spectrum. Physical Review Letters, 2018, 121, 241101.	7.8	20
66	Cross-correlation of weak lensing and gamma rays: implications for the nature of dark matter. Monthly Notices of the Royal Astronomical Society, 2017, 467, 2706-2722.	4.4	19
67	Embedding the 125ÂGeV Higgs boson measured at the LHC in an effective MSSM: Possible implications for neutralino dark matter. Physical Review D, 2013, 88, .	4.7	17
68	Detection of Cross-Correlation between Gravitational Lensing and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î³</mml:mi></mml:math> Rays. Physical Review Letters, 2020, 124, 101102.	7.8	16
69	Searching for axion-like particle decay in the near-infrared background: an updated analysis. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 046.	5.4	14
70	Theoretical Interpretation of Pass 8 Fermi-LAT e⁺Â+Âe^{â^'} Data. Astrophysical Journal, 2017, 845, 107.	4.5	13
71	On the role of neutrinos telescopes in the search for Dark Matter annihilations in the Sun. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 012-012.	5.4	12
72	Testing gamma-ray models of blazars in the extragalactic sky. Physical Review D, 2020, 101, .	4.7	12

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73	Additional bounds on the pre-big-bang-nucleosynthesis expansion by means of Î³-rays from the galactic centre. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 021-021.	5.4	11
74	Astrophysical interpretation of the anisotropies in the unresolved gamma-ray background. Physical Review D, 2017, 95, .	4.7	11
75	Characterizing the local gamma-ray Universe via angular cross-correlations. Physical Review D, 2018, 98, .	4.7	8
76	Searching for gamma-ray emission from galaxy clusters at low redshift. Monthly Notices of the Royal Astronomical Society, 2020, 491, 3225-3244.	4.4	8
77	Upper bounds on signals due to WIMP self-annihilation: Comments on the case of the synchrotron radiation from the galactic center and the WMAP haze. Physical Review D, 2008, 77, .	4.7	7
78	Supersymmetric dark matter. Nuclear Physics, Section B, Proceedings Supplements, 2002, 113, 50-59.	0.4	6
79	Status and perspectives of indirect and direct dark matter searches. Advances in Space Research, 2008, 41, 2010-2018.	2.6	6
80	Search for a light neutralino of cosmological interest at the CERN LHC. Physical Review D, 2012, 85, .	4.7	6
81	Downward-going tau neutrinos as a new prospect of detecting dark matter. Journal of High Energy Physics, 2011, 2011, 1.	4.7	5
82	Synergies across the spectrum for particle dark matter indirect detection: how HI intensity mapping meets gamma rays. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 044-044.	5.4	4
83	Candidates for non-baryonic dark matter. Nuclear Physics, Section B, Proceedings Supplements, 2002, 110, 26-38.	0.4	2
84	Flat-spectrum Radio Quasars and BL Lacs Dominate the Anisotropy of the Unresolved Gamma-Ray Background. Astrophysical Journal, 2022, 933, 221.	4.5	2
85	Supersymmetric dark matter: direct detection. Nuclear Physics, Section B, Proceedings Supplements, 2001, 95, 221-228.	0.4	1
86	Cold dark matter and neutralinos. Nuclear Physics, Section B, Proceedings Supplements, 2003, 124, 170-173.	0.4	1
87	Light neutralino dark matter. Journal of Physics: Conference Series, 2012, 375, 012040.	0.4	1
88	Supersymmetric candidates for nonbaryonic dark matter. Physics of Atomic Nuclei, 2002, 65, 2225-2228.	0.4	0
89	Neutralino dark matter and gaugino nonâ€“universality. Nuclear Physics, Section B, Proceedings Supplements, 2004, 134, 124-126.	0.4	0
90	Particle Dark Matter: Searching for new Physics without Accelerators. AIP Conference Proceedings, 2005, , .	0.4	0

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91	Light neutralino dark matter in gaugino non-universal models. Journal of Physics: Conference Series, 2006, 39, 163-165.	0.4	0
92	Constraining the early Hubble rate using Cosmic Antiprotons. Nuclear Physics, Section B, Proceedings Supplements, 2007, 173, 56-59.	0.4	0
93	Particles in astrophysics and cosmology: a dark connection. Journal of Physics: Conference Series, 2010, 259, 012016.	0.4	0
94	Dark matter: Theory. Physics of Particles and Nuclei, 2011, 42, 641-649.	0.7	0
95	WIMP dark matter and supersymmetry searches with neutrino telescopes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 626-627, S36-S39.	1.6	0
96	Radio signals from galactic and extragalactic dark matter. , 2013, , .		0
97	A novel approach in the WIMP quest: Cross-correlation of gamma-ray anisotropies and cosmic shear. , 2014, , .		0
98	Perspectives of dark matter searches with antideuterons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 742, 145-148.	1.6	0
99	MULTIWAVELENGTH AND MULTIMESSENGER SIGNALS OF DARK MATTER. , 2015, , .		0
100	Constraining sub-GeV dark matter with the Integral data. Journal of Physics: Conference Series, 2021, 2156, 012033.	0.4	0