Nicole F Bell

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5174848/publications.pdf

Version: 2024-02-01

87 papers	3,817 citations	94415 37 h-index	123420 61 g-index
90 all docs	90 docs citations	90 times ranked	5793 citing authors

#	Article	IF	Citations
1	Measuring flavor ratios of high-energy astrophysical neutrinos. Physical Review D, 2003, 68, .	4.7	186
2	Stringent constraints on cosmological neutrino-antineutrino asymmetries from synchronized flavor transformation. Physical Review D, 2002, 66, .	4.7	177
3	Decay of High-Energy Astrophysical Neutrinos. Physical Review Letters, 2003, 90, 181301.	7.8	177
4	Gamma-Ray Constraint on Galactic Positron Production by MeV Dark Matter. Physical Review Letters, 2005, 94, 171301.	7.8	170
5	Do solar neutrinos decay?. Physical Review D, 2002, 65, .	4.7	149
6	How Magnetic is the Dirac Neutrino?. Physical Review Letters, 2005, 95, 151802.	7.8	145
7	Upper Bound on the Dark Matter Total Annihilation Cross Section. Physical Review Letters, 2007, 99, 231301.	7.8	120
8	Neutrinoless Universe. Physical Review Letters, 2004, 93, 121302.	7.8	117
9	Pseudo-Dirac Neutrinos: A Challenge for Neutrino Telescopes. Physical Review Letters, 2004, 92, 011101.	7.8	113
10	Model independent bounds on magnetic moments of Majorana neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 642, 377-383.	4.1	97
11	Realistic neutron star constraints on bosonic asymmetric dark matter. Physical Review D, 2013, 87, .	4.7	95
12	Cosmological signatures of interacting neutrinos. Physical Review D, 2006, 73, .	4.7	93
13	Sensitivity toî¸13andÎ´in the decaying astrophysical neutrino scenario. Physical Review D, 2004, 69, .	4.7	79
14	Conservative constraints on dark matter annihilation into gamma rays. Physical Review D, 2008, 78, .	4.7	72
15	Relic neutrino asymmetry evolution from first principles. Physical Review D, 1999, 59, .	4.7	69
16	Searching for dark matter at the LHC with a mono-Z. Physical Review D, 2012, 86, .	4.7	64
17	Capture of leptophilic dark matter in neutron stars. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 054-054.	5.4	64
18	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi>W</mml:mi><mml:mo stretchy="false">/</mml:mo><mml:mi>Z</mml:mi></mml:math> bremsstrahlung as the dominant annihilation channel for dark matter, revisited. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 706, 6-12.	4.1	63

#	Article	IF	Citations
19	Heating up neutron stars with inelastic dark matter. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 018-018.	5.4	63
20	Improved treatment of dark matter capture in neutron stars. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 028-028.	5.4	63
21	Cosmological lepton asymmetry, primordial nucleosynthesis and sterile neutrinos. Physical Review D, 2005, 72, .	4.7	60
22	Migdal effect and photon bremsstrahlung in effective field theories of dark matter direct detection and coherent elastic neutrino-nucleus scattering. Physical Review D, 2020, 101, .	4.7	58
23	Enhanced neutrino signals from dark matter annihilation in the Sun via metastable mediators. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 003-003.	5.4	52
24	Explaining the XENON1T Excess with Luminous Dark Matter. Physical Review Letters, 2020, 125, 161803.	7.8	49
25	Speed-up through entanglementâ€”many-body effects in neutrino processes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 573, 86-93.	4.1	48
26	Dark and visible matter in a baryon-symmetric universe via the Affleck-Dine mechanism. Physical Review D, 2011, 84, .	4.7	48
27	Self-consistent Dark Matter simplified models with an s-channel scalar mediator. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 015-015.	5.4	48
28	Electroweak bremsstrahlung in dark matter annihilation. Physical Review D, 2008, 78, .	4.7	47
29	Radio and gamma-ray constraints on dark matter annihilation in the Galactic center. Physical Review D, 2010, 81, .	4.7	47
30	W/Zbremsstrahlung as the dominant annihilation channel for dark matter. Physical Review D, 2011, 83, .	4.7	45
31	Leptophilic dark matter with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Z</mml:mi></mml:mrow><mml:mrow><mml:mo>â€²</mml:mo></mml:mrow> Physical Review D, 2014, 90, .	4.7	44
32	Improved treatment of dark matter capture in neutron stars II: leptonic targets. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 086.	5.4	44
33	Mono-Wdark matter signals at the LHC: simplified model analysis. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 051-051.	5.4	41
34	Nucleon Structure and Strong Interactions in Dark Matter Capture in Neutron Stars. Physical Review Letters, 2021, 127, 111803.	7.8	40
35	Mirror matter and primordial black holes. Physical Review D, 1999, 59, .	4.7	39
36	Dark matter at the LHC: Effective field theories and gauge invariance. Physical Review D, 2015, 92, .	4.7	39

#	Article	IF	Citations
37	Dark matter annihilation signatures from electroweak bremsstrahlung. Physical Review D, 2011, 84, .	4.7	36
38	LHC Dark Matter Working Group: Next-generation spin-0 dark matter models. Physics of the Dark Universe, 2020, 27, 100351.	4.9	36
39	Gamma-ray constraints on dark matter annihilation into charged particles. Physical Review D, 2009, 79, .	4.7	35
40	Impact of mass generation for spin-1 mediator simplified models. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 039-039.	5.4	35
41	Loop effects in direct detection. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 017-017.	5.4	34
42	Relic neutrino asymmetries and big bang nucleosynthesis in a four neutrino model. Physical Review D, 1998, 58, .	4.7	32
43	Annihilating asymmetric dark matter. Physical Review D, 2015, 91, .	4.7	32
44	Lifetime constraints for late dark matter decay. Physical Review D, 2010, 82, .	4.7	31
45	Particle-Antiparticle Asymmetries from Annihilations. Physical Review Letters, 2014, 113, 181601.	7.8	29
46	Cosmic-ray upscattered inelastic dark matter. Physical Review D, 2021, 104, .	4.7	29
47	Dark forces in the sky: signals fromZâ€² and the dark Higgs. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 001-001.	5.4	28
48	Co-annihilating dark matter: Effective operator analysis and collider phenomenology. Physical Review D, 2014, 89, .	4.7	26
49	Improved treatment of dark matter capture in white dwarfs. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 083.	5.4	26
50	Two Higgs doublet dark matter portal. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 015-015.	5.4	25
51	Improved treatment of dark matter capture in neutron stars III: nucleon and exotic targets. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 056.	5.4	23
52	Two-step electroweak symmetry-breaking: theory meets experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	22
53	The role of CP violating scatterings in baryogenesisâ€"case study of the neutron portal. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 041-041.	5.4	21
54	Low-mass inelastic dark matter direct detection via the Migdal effect. Physical Review D, 2021, 104, .	4.7	21

#	Article	IF	Citations
55	Bottom-up model for maximalÎ½Î¼â^'Î½Ï„mixing. Physical Review D, 2000, 63, .	4.7	20
56	Baryon number violating scalar diquarks at the LHC. Physical Review D, 2011, 84, .	4.7	20
57	Enhancing dark matter annihilation rates with dark bremsstrahlung. Physical Review D, 2017, 96, .	4.7	20
58	Searching for Sub-GeV dark matter in the galactic centre using Hyper-Kamiokande. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 019-019.	5.4	20
59	Neutrino signals from electroweak bremsstrahlung in solar WIMP annihilation. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 045-045.	5.4	19
60	Asymmetric dark matter and CP violating scatterings in a UV complete model. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 048-048.	5.4	17
61	Model for late dark matter decay. Physical Review D, 2011, 83, .	4.7	16
62	Generation of entangled states and error protection from adiabatic avoided level crossings. Physical Review A, 2002, 65, .	2.5	15
63	Electroweak baryogenesis with vector-like leptons and scalar singlets. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
64	Solar gamma ray constraints on dark matter annihilation to secluded mediators. Physical Review D, 2021, 104, .	4.7	15
65	HOW MAGNETIC IS THE NEUTRINO?. International Journal of Modern Physics A, 2007, 22, 4891-4899.	1.5	14
66	Unitarisation of EFT amplitudes for dark matter searches at the LHC. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
67	Mirror matter and heavy singlet neutrino oscillations in the early universe. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 479, 257-264.	4.1	11
68	Two radiative inverse seesaw models, dark matter, and baryogenesis.. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 029-029.	5.4	11
69	Synchronisation and MSW sharpening of neutrinos propagating in a flavour blind medium. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 500, 16-21.	4.1	10
70	Observing the Migdal effect from nuclear recoils of neutral particles with liquid xenon and argon detectors. Physical Review D, 2022, 105, .	4.7	10
71	Entanglement and quantal coherence: Study of two limiting cases of rapid system-bath interactions. Physical Review A, 2002, 65, .	2.5	9
72	Searching for dark matter in the Sun using Hyper-Kamiokande. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 004.	5.4	9

#	Article	IF	Citations
73	Electromagnetic leptogenesis. Physical Review D, 2008, 78, .	4.7	8
74	A real triplet-singlet extended Standard Model: dark matter and collider phenomenology. Journal of High Energy Physics, 2021, 2021, 1.	4.7	6
75	Model Independent Naturalness Bounds on Magnetic Moments of Majorana Neutrinos. AIP Conference Proceedings, 2007, , .	0.4	5
76	Magnetic Moments of Dirac Neutrinos. AIP Conference Proceedings, 2006, , .	0.4	4
77	Electric dipole moments from postsphaleron baryogenesis. Physical Review D, 2019, 99, .	4.7	4
78	Probing new physics with astrophysical neutrinos. Journal of Physics: Conference Series, 2008, 136, 022043.	0.4	3
79	Neutrino oscillations and big bang nucleosynthesis. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 503, 226-229.	1.6	1
80	Neutrino mixing and cosmology. Nuclear Physics, Section B, Proceedings Supplements, 2005, 138, 76-78.	0.4	1
81	DARK MATTER ANNIHILATION IN THE LATE UNIVERSE. Modern Physics Letters A, 2008, 23, 1643-1648.	1.2	1
82	CONSTRAINING DARK MATTER ANNIHILATION WITH NEUTRINOS AND GAMMA RAYS. International Journal of Modern Physics Conference Series, 2011, 01, 245-251.	0.7	1
83	State permutations from manipulation of near-level-crossings. Physical Review A, 2003, 68, .	2.5	0
84	Title is missing!. European Journal of Physics, 2009, 30, 920-920.	0.6	0
85	Dark Matter Annihilation to Electrons, Neutrinos and Gamma Rays. , 2009, , .		0
86	Neutrino Magnetic Moments and Electromagnetic Leptogenesis. , 2009, , .		0
87	ANNIHILATING DARK MATTER. , 2008, , .		0