Cecilia Lunardini

List of Publications by Year
in descending order

52 papers	2,133 citations	201674 27 h-index	223800 46 g-index
53 all docs	53 docs citations	53 times ranked	1937 citing authors

#	Article	IF	Citations
1	Physics at a future Neutrino Factory and super-beam facility. Reports on Progress in Physics, 2009, 72, 106201.	20.1	174
2	Solar neutrinos as probes of neutrinoâ€“matter interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 594, 347-354.	4.1	173
3	Probing the neutrino mass hierarchy and the 13-mixing with supernovae. Journal of Cosmology and Astroparticle Physics, 2003, 2003, 009-009.	5.4	125
4	Atmospheric neutrinos as probes of neutrino-matter interactions. Physical Review D, 2004, 70, .	4.7	108
5	Cosmological and astrophysical neutrino mass measurements. Astroparticle Physics, 2011, 35, 177-184.	4.3	108
6	Detecting non-relativistic cosmic neutrinos by capture on tritium: phenomenology and physics potential. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 038-038.	5.4	90
7	Test of tau neutrino interactions with atmospheric neutrinos and K2K data. Physical Review D, 2005, 72, .	4.7	81
8	Diffuse Neutrino Flux from Failed Supernovae. Physical Review Letters, 2009, 102, 231101.	7.8	75
9	Neutrino flavor conversion in a neutrino background: Single- versus multi-particle description. Physical Review D, 2003, 68, .	4.7	69
10	Do many-particle neutrino interactions cause a novel coherent effect?. Journal of High Energy Physics, 2003, 2003, 043-043.	4.7	65
11	Fast time variations of supernova neutrino fluxes and their detectability. Physical Review D, 2010, 82, .	4.7	65
12	High energy neutrinos from the tidal disruption of stars. Physical Review D, 2017, 95, .	4.7	61
13	Diffuse supernova neutrinos at underground laboratories. Astroparticle Physics, 2016, 79, 49-77.	4.3	58
14	Neutrino events at IceCube and the Fermi bubbles. Physical Review D, 2014, 90, .	4.7	57
15	Tidally disrupted stars as a possible origin of both cosmic rays and neutrinos at the highest energies. Scientific Reports, 2018, 8, 10828.	3.3	55
16	Two modes of searching for new neutrino interactions at MINOS. Physical Review D, 2006, 74, .	4.7	49
17	Diffuse supernova neutrinos: oscillation effects, stellar cooling and progenitor mass dependence. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 012-012.	5.4	48
18	Supernova neutrinos: difference of Î½Î¼â€“Î½Ï„ fluxes and conversion effects. Nuclear Physics B, 2002, 643, 339-366.	2.5	45

#	Article	IF	Citations
19	The diffuse supernova neutrino flux, supernova rate and SN1987A. Astroparticle Physics, 2006, 26, 190-201.	4.3	45
20	Additional light sterile neutrinos and cosmology. Physical Review D, 2013, 87, .	4.7	43
21	Candidate Tidal Disruption Event AT2019fdr Coincident with a High-Energy Neutrino. Physical Review Letters, 2022, 128, .	7.8	41
22	Dirac and Majorana neutrino signatures of primordial black holes. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 014-014.	5.4	38
23	Neutrinos from SN1987A: flavor conversion and interpretation of results. Astroparticle Physics, 2004, 21, 703-720.	4.3	34
24	Neutrinos from Beta Processes in a Presupernova: Probing the Isotopic Evolution of a Massive Star. Astrophysical Journal, 2017, 851, 6.	4.5	32
25	Diffuse neutrinos from luminous and dark supernovae: prospects for upcoming detectors at the ?(10) kt scale. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 031-031.	5.4	32
26	Presupernova Neutrinos: Realistic Emissivities from Stellar Evolution. Astrophysical Journal, 2017, 840, 2.	4.5	29
27	A concordance scenario for the observed neutrino from a tidal disruption event. Nature Astronomy, 2021, 5, 472-477.	10.1	28
28	High Energy Neutrinos from the Fermi Bubbles. Physical Review Letters, 2012, 108, 221102.	7.8	27
29	Neutrinos from failed supernovae at future water and liquid argon detectors. Physical Review D, 2012, 85, .	4.7	26
30	Presupernova Neutrinos: Directional Sensitivity and Prospects for Progenitor Identification. Astrophysical Journal, 2020, 899, 153.	4.5	26
31	Do high energy astrophysical neutrinos trace star formation?. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 029-029.	5.4	25
32	Upper limits on the diffuse supernova neutrino flux from the SuperKamiokande data. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 033.	5.4	23
33	Fast neutrino cooling of nuclear pasta in neutron stars: Molecular dynamics simulations. Physical Review C, 2020, 102, .	2.9	22
34	Cosmic strings as emitters of extremely high energy neutrinos. Physical Review D, 2012, 86, .	4.7	20
35	Are starburst galaxies a common source of high energy neutrinos and cosmic rays?. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 073-073.	5.4	19
36	SevenOperators, a Mathematica script for harmonic oscillator nuclear matrix elements arising in semileptonic electroweak interactions. Computer Physics Communications, 2008, 179, 345-358.	7.5	16

#	Article	IF	Citations
37	Multimessenger study of the Fermi bubbles: Very high energy gamma rays and neutrinos. Physical Review D, 2015, 92, .	4.7	16
38	Diffuse neutrino flux from supernovae: Upper limit on the electron neutrino component from the nonobservation of antineutrinos at SuperKamiokande. Physical Review D, 2006, 73, .	4.7	13
39	Testing neutrino spectra formation in collapsing stars with the diffuse supernova neutrino flux. Physical Review D, 2007, 75, .	4.7	11
40	Revealing local failed supernovae with neutrino telescopes. Physical Review D, 2011, 84, .	4.7	11
41	The neutrino gravitational memory from a core collapse supernova: phenomenology and physics potential. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 055.	5.4	10
42	An ``archaeological'' quest for galactic supernova neutrinos. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 029-029.	5.4	9
43	Observing cosmological binary mergers with next generation neutrino and gravitational wave detectors. Physical Review D, 2020, 101, .	4.7	9
44	Detectability of standing accretion shock instabilities activity in supernova neutrino signals. Physical Review D, 2020, 101, .	4.7	8
45	Theory and phenomenology of supernova neutrinos. AIP Conference Proceedings, 2015, , .	0.4	6
46	Ultra high energy neutrinos: absorption, thermal effects and signatures. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 014-014.	5.4	3
47	Testing the supernova neutrino spectrum with the diffuse supernova neutrino flux. Nuclear Physics, Section B, Proceedings Supplements, 2007, 168, 131-133.	0.4	1
48	Diffuse neutrinos from failed supernovae. , 2009, , .		0
49	The diffuse supernova neutrino flux. Nuclear Physics, Section B, Proceedings Supplements, 2011, 221, 160-165.	0.4	0
50	Light sterile neutrinos in the early universe. , 2014, , .		0
51	Diffuse Neutrino Flux from Supernovae. , 2017, , 1637-1653.		0
52	Diffuse Neutrino Flux from Supernovae. , 2016, , 1-17.		0