

# Cecilia Lunardini

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Candidate Tidal Disruption Event AT2019fdr Coincident with a High-Energy Neutrino. <i>Physical Review Letters</i> , 2022, 128, .	7.8	41
2	A concordance scenario for the observed neutrino from a tidal disruption event. <i>Nature Astronomy</i> , 2021, 5, 472-477.	10.1	28
3	The neutrino gravitational memory from a core collapse supernova: phenomenology and physics potential. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 055.	5.4	10
4	Fast neutrino cooling of nuclear pasta in neutron stars: Molecular dynamics simulations. <i>Physical Review C</i> , 2020, 102, .	2.9	22
5	Observing cosmological binary mergers with next generation neutrino and gravitational wave detectors. <i>Physical Review D</i> , 2020, 101, .	4.7	9
6	Detectability of standing accretion shock instabilities activity in supernova neutrino signals. <i>Physical Review D</i> , 2020, 101, .	4.7	8
7	Dirac and Majorana neutrino signatures of primordial black holes. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 014-014.	5.4	38
8	Presupernova Neutrinos: Directional Sensitivity and Prospects for Progenitor Identification. <i>Astrophysical Journal</i> , 2020, 899, 153.	4.5	26
9	Are starburst galaxies a common source of high energy neutrinos and cosmic rays?. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 073-073.	5.4	19
10	Tidally disrupted stars as a possible origin of both cosmic rays and neutrinos at the highest energies. <i>Scientific Reports</i> , 2018, 8, 10828.	3.3	55
11	Presupernova Neutrinos: Realistic Emissivities from Stellar Evolution. <i>Astrophysical Journal</i> , 2017, 840, 2.	4.5	29
12	Neutrinos from Beta Processes in a Presupernova: Probing the Isotopic Evolution of a Massive Star. <i>Astrophysical Journal</i> , 2017, 851, 6.	4.5	32
13	Diffuse neutrinos from luminous and dark supernovae: prospects for upcoming detectors at the $\sim 10$ kt scale. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 031-031.	5.4	32
14	Diffuse Neutrino Flux from Supernovae. , 2017, , 1637-1653.		0
15	High energy neutrinos from the tidal disruption of stars. <i>Physical Review D</i> , 2017, 95, .	4.7	61
16	Diffuse supernova neutrinos at underground laboratories. <i>Astroparticle Physics</i> , 2016, 79, 49-77.	4.3	58
17	Diffuse Neutrino Flux from Supernovae. , 2016, , 1-17.		0
18	Multimessenger study of the Fermi bubbles: Very high energy gamma rays and neutrinos. <i>Physical Review D</i> , 2015, 92, .	4.7	16

#	ARTICLE	IF	CITATIONS
19	Do high energy astrophysical neutrinos trace star formation?. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 029-029.	5.4	25
20	Theory and phenomenology of supernova neutrinos. AIP Conference Proceedings, 2015, , .	0.4	6
21	Light sterile neutrinos in the early universe. , 2014, , .		0
22	Neutrino events at IceCube and the Fermi bubbles. Physical Review D, 2014, 90, .	4.7	57
23	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
24	Ultra high energy neutrinos: absorption, thermal effects and signatures. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 014-014.	5.4	3
25	Additional light sterile neutrinos and cosmology. Physical Review D, 2013, 87, .	4.7	43
26	Cosmic strings as emitters of extremely high energy neutrinos. Physical Review D, 2012, 86, .	4.7	20
27	High Energy Neutrinos from the Fermi Bubbles. Physical Review Letters, 2012, 108, 221102.	7.8	27
28	Neutrinos from failed supernovae at future water and liquid argon detectors. Physical Review D, 2012, 85, .	4.7	26
29	Diffuse supernova neutrinos: oscillation effects, stellar cooling and progenitor mass dependence. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 012-012.	5.4	48
30	Revealing local failed supernovae with neutrino telescopes. Physical Review D, 2011, 84, .	4.7	11
31	The diffuse supernova neutrino flux. Nuclear Physics, Section B, Proceedings Supplements, 2011, 221, 160-165.	0.4	0
32	Cosmological and astrophysical neutrino mass measurements. Astroparticle Physics, 2011, 35, 177-184.	4.3	108
33	Fast time variations of supernova neutrino fluxes and their detectability. Physical Review D, 2010, 82, .	4.7	65
34	Diffuse Neutrino Flux from Failed Supernovae. Physical Review Letters, 2009, 102, 231101.	7.8	75
35	Physics at a future Neutrino Factory and super-beam facility. Reports on Progress in Physics, 2009, 72, 106201.	20.1	174
36	An "archaeological" quest for galactic supernova neutrinos. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 029-029.	5.4	9

#	ARTICLE	IF	CITATIONS
37	Diffuse neutrinos from failed supernovae. , 2009, , .		0
38	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
39	Upper limits on the diffuse supernova neutrino flux from the SuperKamiokande data. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 033.	5.4	23
40	Testing neutrino spectra formation in collapsing stars with the diffuse supernova neutrino flux. Physical Review D, 2007, 75, .	4.7	11
41	Testing the supernova neutrino spectrum with the diffuse supernova neutrino flux. Nuclear Physics, Section B, Proceedings Supplements, 2007, 168, 131-133.	0.4	1
42	Two modes of searching for new neutrino interactions at MINOS. Physical Review D, 2006, 74, .	4.7	49
43	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
44	The diffuse supernova neutrino flux, supernova rate and SN1987A. Astroparticle Physics, 2006, 26, 190-201.	4.3	45
45	Test of tau neutrino interactions with atmospheric neutrinos and K2K data. Physical Review D, 2005, 72, .	4.7	81
46	Atmospheric neutrinos as probes of neutrino-matter interactions. Physical Review D, 2004, 70, .	4.7	108
47	Solar neutrinos as probes of neutrino-matter interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 594, 347-354.	4.1	173
48	Neutrinos from SN1987A: flavor conversion and interpretation of results. Astroparticle Physics, 2004, 21, 703-720.	4.3	34
49	Neutrino flavor conversion in a neutrino background: Single- versus multi-particle description. Physical Review D, 2003, 68, .	4.7	69
50	Do many-particle neutrino interactions cause a novel coherent effect?. Journal of High Energy Physics, 2003, 2003, 043-043.	4.7	65
51	Probing the neutrino mass hierarchy and the $\theta_{13}$ -mixing with supernovae. Journal of Cosmology and Astroparticle Physics, 2003, 2003, 009-009.	5.4	125
52	Supernova neutrinos: difference of $\hat{\nu}_{\mu} \hat{\nu}_{\tau}$ fluxes and conversion effects. Nuclear Physics B, 2002, 643, 339-366.	2.5	45