

Francesco Lorenzo Villante

List of Publications by Year in descending order

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46
papers

1,758
citations

304701

22
h-index

265191

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all docs

46
docs citations

46
times ranked

1987
citing authors

#	ARTICLE	IF	CITATIONS
1	The Relevance of Nuclear Reactions for Standard Solar Models Construction. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 7, .	2.8	11
2	A multi-messenger study of the total galactic high-energy neutrino emission. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 035-035.	5.4	6
3	Helioseismic and neutrino data-driven reconstruction of solar properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1397-1413.	4.4	8
4	Phase-space mass bound for fermionic dark matter from dwarf spheroidal galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 5385-5397.	4.4	36
5	A New Generation of Standard Solar Models. <i>Astrophysical Journal</i> , 2017, 835, 202.	4.5	239
6	Implications of solar wind measurements for solar models and composition. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 2-9.	4.4	22
7	Expectations for high energy diffuse galactic neutrinos for different cosmic ray distributions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 004-004.	5.4	22
8	Double pulses and cascades above 2ÂPeV in IceCube. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	17
9	New axion and hidden photon constraints from a solar data global fit. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 015-015.	5.4	96
10	Testing nonradiative neutrino decay scenarios with IceCube data. <i>Physical Review D</i> , 2015, 92, .	4.7	40
11	What is the Flavor of the Cosmic Neutrinos Seen by IceCube?. <i>Physical Review Letters</i> , 2015, 114, 171101.	7.8	67
12	ecCNO solar neutrinos: A challenge for gigantic ultra-pure liquid scintillator detectors. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 742, 279-284.	4.1	13
13	Neutrino Oscillations. <i>Advances in High Energy Physics</i> , 2014, 2014, 1-28.	1.1	19
14	THE CHEMICAL COMPOSITION OF THE SUN FROM HELIOSEISMIC AND SOLAR NEUTRINO DATA. <i>Astrophysical Journal</i> , 2014, 787, 13.	4.5	79
15	The fraction of muon tracks in cosmic neutrinos. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 017-017.	5.4	17
16	The cosmological ${}^7\text{Li}$ problem from a nuclear physics perspective. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 030-030.	5.4	60
17	Non-standard neutrino propagation and pion decay. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	8
18	A step toward CNO solar neutrino detection in liquid scintillators. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 701, 336-341.	4.1	28

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19	Linear solar models: A simple tool to investigate the properties of solar interior. Journal of Physics: Conference Series, 2010, 203, 012084.	0.4	2
20	LINEAR SOLAR MODELS. Astrophysical Journal, 2010, 714, 944-959.	4.5	21
21	CONSTRAINTS ON THE OPACITY PROFILE OF THE SUN FROM HELIOSEISMIC OBSERVABLES AND SOLAR NEUTRINO FLUX MEASUREMENTS. Astrophysical Journal, 2010, 724, 98-110.	4.5	38
22	Likelihood for supernova neutrino analyses. Physical Review D, 2009, 80, .	4.7	19
23	Cosmic rays and neutrinos from supernova remnants. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 588, 123-129.	1.6	14
24	How precisely can neutrino emission from supernova remnants be constrained by gamma ray observations?. Physical Review D, 2008, 78, .	4.7	49
25	Formation of quark phases in compact stars and SN explosion. AIP Conference Proceedings, 2008, , .	0.4	16
26	Method to extract the primary cosmic ray spectrum from very high energy $\hat{1}^3$ -ray data and its application to SNR RX J1713.7-3946. Physical Review D, 2007, 76, .	4.7	12
27	How to observe 8B solar neutrinos in liquid scintillator detectors. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 627, 38-48.	4.1	17
28	STRUCTURE FORMATION WITH MIRROR DARK MATTER: CMB AND LSS. International Journal of Modern Physics D, 2005, 14, 107-119.	2.1	126
29	BBN AND NEUTRINO OSCILLATIONS IN THE EARLY UNIVERSE: A BRIEF REVIEW. International Journal of Modern Physics A, 2005, 20, 2431-2435.	1.5	1
30	Nuclear Fusion in the Sun. Progress of Theoretical Physics Supplement, 2004, 154, 309-316.	0.1	2
31	The $14\text{N}(p, \hat{1}^3)15\text{O}$ reaction, solar neutrinos and the age of the globular clusters. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 590, 13-20.	4.1	28
32	BBN bounds on active \hat{e} sterile neutrino mixing. Nuclear Physics B, 2004, 679, 261-298.	2.5	87
33	Faraday Rotation of the Cosmic Microwave Background Polarization and Primordial Magnetic Field Properties. Astrophysical Journal, 2004, 616, 1-7.	4.5	90
34	Fusion rate enhancement due to energy spread of colliding nuclei. Physical Review C, 2003, 67, .	2.9	23
35	The Sun and the Newton constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 549, 20-25.	4.1	8
36	Constraints on inflation from cosmic microwave background and Lyman- $\hat{1}^{\pm}$ forest. Astroparticle Physics, 2002, 17, 375-382.	4.3	44

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37	The early mirror universe: inflation, baryogenesis, nucleosynthesis and dark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 503, 362-375.	4.1	206
38	Helioseismology and screening of nuclear reactions in the Sun. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 503, 121-125.	4.1	8
39	Atmospheric neutrino flux supported by recent muon experiments. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 510, 173-188.	4.1	57
40	Helioseismology and solar neutrinos: an update. Nuclear Physics, Section B, Proceedings Supplements, 2001, 95, 116-122.	0.4	6
41	Probing the power spectrum bend with recent cosmic microwave background data. Astroparticle Physics, 2001, 16, 137-144.	4.3	36
42	Solar neutrino event spectra: Tuning SNO to equalize Super-Kamiokande. Physical Review D, 2001, 63, .	4.7	25
43	Decaying neutrino and a high cosmological baryon density. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 486, 1-5.	4.1	22
44	Helioseismic determination of Beryllium neutrinos produced in the sun. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 488, 123-126.	4.1	3
45	Nuclear burning rates and Population II stellar models. Monthly Notices of the Royal Astronomical Society, 1998, 298, 557-561.	4.4	9
46	A signature of solar antineutrinos in Superkamiokande. Progress in Particle and Nuclear Physics, 1998, 40, 149-150.	14.4	1