

Georg G Raffelt

List of Publications by Year in descending order

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41
papers

6,773
citations

101543

36
h-index

265206

42
g-index

42
all docs

42
docs citations

42
times ranked

3101
citing authors

#	ARTICLE	IF	CITATIONS
1	Muonic boson limits: Supernova redux. <i>Physical Review D</i> , 2022, 105, .	4.7	75
2	Neutrino Flavor Pendulum Reloaded: The Case of Fast Pairwise Conversion. <i>Physical Review Letters</i> , 2022, 128, 121102.	7.8	34
3	Low-Energy Supernovae Severely Constrain Radiative Particle Decays. <i>Physical Review Letters</i> , 2022, 128, .	7.8	48
4	Distinguishing Dirac and Majorana neutrinos by their decays via Nambu-Goldstone bosons in the gravitational-anomaly model of neutrino masses. <i>Physical Review D</i> , 2020, 101, .	4.7	31
5	Grand unified neutrino spectrum at Earth: Sources and spectral components. <i>Reviews of Modern Physics</i> , 2020, 92, .	45.6	69
6	Axion and neutrino bounds improved with new calibrations of the tip of the red-giant branch using geometric distance determinations. <i>Physical Review D</i> , 2020, 102, .	4.7	89
7	Fast neutrino flavor conversion: collective motion vs. decoherence. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 002-002.	5.4	38
8	Normal-mode analysis for collective neutrino oscillations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 019-019.	5.4	49
9	Flavor-dependent Neutrino Angular Distribution in Core-collapse Supernovae. <i>Astrophysical Journal</i> , 2017, 839, 132.	4.5	77
10	Fast Pairwise Conversion of Supernova Neutrinos: A Dispersion Relation Approach. <i>Physical Review Letters</i> , 2017, 118, 021101.	7.8	141
11	Solar neutrino flux at keV energies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 010-010.	5.4	28
12	Neutrino physics with JUNO. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016, 43, 030401.	3.6	750
13	Collective neutrino flavor conversion: Recent developments. <i>Nuclear Physics B</i> , 2016, 908, 366-381.	2.5	156
14	SELF-SUSTAINED ASYMMETRY OF LEPTON-NUMBER EMISSION: A NEW PHENOMENON DURING THE SUPERNOVA SHOCK-ACCRETION PHASE IN THREE DIMENSIONS. <i>Astrophysical Journal</i> , 2014, 792, 96.	4.5	152
15	Neutrino Signature of Supernova Hydrodynamical Instabilities in Three Dimensions. <i>Physical Review Letters</i> , 2013, 111, 121104.	7.8	88
16	Spurious instabilities in multiangle simulations of collective flavor conversion. <i>Physical Review D</i> , 2012, 86, .	4.7	37
17	High-resolution supernova neutrino spectra represented by a simple fit. <i>Physical Review D</i> , 2012, 86, .	4.7	116
18	Linearized flavor-stability analysis of dense neutrino streams. <i>Physical Review D</i> , 2011, 84, .	4.7	117

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19	Relic Density of Neutrinos with Primordial Asymmetries. <i>Physical Review Letters</i> , 2009, 102, 241302.	7.8	55
20	Multiple Spectral Splits of Supernova Neutrinos. <i>Physical Review Letters</i> , 2009, 103, 051105.	7.8	189
21	Flavour-dependent radiative correction to neutrino-neutrino refraction. <i>Journal of High Energy Physics</i> , 2009, 2009, 020-020.	4.7	17
22	Self-induced decoherence in dense neutrino gases. <i>Physical Review D</i> , 2007, 75, .	4.7	101
23	Self-induced conversion in dense neutrino gases: Pendulum in flavor space. <i>Physical Review D</i> , 2006, 74, .	4.7	270
24	Constraining invisible neutrino decays with the cosmic microwave background. <i>Physical Review D</i> , 2005, 72, .	4.7	108
25	Monte Carlo Study of Supernova Neutrino Spectra Formation. <i>Astrophysical Journal</i> , 2003, 590, 971-991.	4.5	467
26	Muon and Tau Neutrino Spectra Formation in Supernovae. <i>Astrophysical Journal</i> , 2001, 561, 890-914.	4.5	93
27	PARTICLEPHYSICS FROMSTARS. <i>Annual Review of Nuclear and Particle Science</i> , 1999, 49, 163-216.	10.2	265
28	Comment on "New Limits to the Infrared Background: Bounds on Radiative Neutrino Decay and on Contributions of Very Massive Objects to the Dark Matter Problem". <i>Physical Review Letters</i> , 1998, 81, 4020-4020.	7.8	15
29	SN 1987A gamma-ray limits on the conversion of pseudoscalars. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 383, 439-443.	4.1	134
30	Red giant bound on the axion-electron coupling reexamined. <i>Physical Review D</i> , 1995, 51, 1495-1498.	4.7	133
31	Reduced neutrino opacities and the SN 1987A signal. <i>Physical Review D</i> , 1995, 51, 6635-6646.	4.7	38
32	Standard and Nonstandard Plasma Neutrino Emission Revisited: Erratum. <i>Astrophysical Journal</i> , 1995, 438, 1017.	4.5	11
33	Standard and nonstandard plasma neutrino emission revisited. <i>Astrophysical Journal</i> , 1994, 425, 222.	4.5	161
34	Supernova bounds on neutrino radiative decays. <i>Astroparticle Physics</i> , 1993, 1, 377-386.	4.3	50
35	Astrophysical methods to constrain axions and other novel particle phenomena. <i>Physics Reports</i> , 1990, 198, 1-113.	25.6	578
36	New bound on neutrino dipole moments from globular-cluster stars. <i>Physical Review Letters</i> , 1990, 64, 2856-2858.	7.8	163

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37	Core mass at the helium flash from observations and a new bound on neutrino electromagnetic properties. <i>Astrophysical Journal</i> , 1990, 365, 559.	4.5	84
38	Neutrino dispersion at finite temperature and density. <i>Nuclear Physics B</i> , 1988, 307, 924-936.	2.5	407
39	Mixing of the photon with low-mass particles. <i>Physical Review D</i> , 1988, 37, 1237-1249.	4.7	635
40	Bounds on exotic-particle interactions from SN1987A. <i>Physical Review Letters</i> , 1988, 60, 1793-1796.	7.8	393
41	Astrophysical axion bounds diminished by screening effects. <i>Physical Review D</i> , 1986, 33, 897-909.	4.7	205