

Georg Raffelt

List of Publications by Year in descending order

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47
papers

4,302
citations

147801

31
h-index

214800

47
g-index

47
all docs

47
docs citations

47
times ranked

2281
citing authors

#	ARTICLE	IF	CITATIONS
1	Muonic boson limits: Supernova redux. Physical Review D, 2022, 105, .	4.7	75
2	Low-Energy Supernovae Severely Constrain Radiative Particle Decays. Physical Review Letters, 2022, 128, .	7.8	48
3	Distinguishing Dirac and Majorana neutrinos by their decays via Nambu-Goldstone bosons in the gravitational-anomaly model of neutrino masses. Physical Review D, 2020, 101, .	4.7	31
4	Grand unified neutrino spectrum at Earth: Sources and spectral components. Reviews of Modern Physics, 2020, 92, .	45.6	69
5	Liouville term for neutrinos: flavor structure and wave interpretation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 016-016.	5.4	22
6	Photon-photon dispersion of TeV gamma rays and its role for photon-ALP conversion. Physical Review D, 2015, 91, .	4.7	57
7	Neutrino emission characteristics and detection opportunities based on three-dimensional supernova simulations. Physical Review D, 2014, 90, .	4.7	114
8	Axion hot dark matter bounds after Planck. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 020-020.	5.4	69
9	Solar constraints on hidden photons re-visited. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 034-034.	5.4	165
10	Neutrino Signature of Supernova Hydrodynamical Instabilities in Three Dimensions. Physical Review Letters, 2013, 111, 121104.	7.8	88
11	Neutrino flavor pendulum in both mass hierarchies. Physical Review D, 2013, 88, .	4.7	37
12	Axial Symmetry Breaking in Self-Induced Flavor Conversion of Supernova Neutrino Fluxes. Physical Review Letters, 2013, 111, 091101.	7.8	102
13	Fast time variations of supernova neutrino signals from 3-dimensional models. Physical Review D, 2012, 86, .	4.7	29
14	Limits on a $C P$ -violating scalar axion-nucleon interaction. Physical Review D, 2012, 86, .	4.7	111
15	Supernova neutrino halo and the suppression of self-induced flavor conversion. Physical Review D, 2012, 85, .	4.7	68
16	High-resolution supernova neutrino spectra represented by a simple fit. Physical Review D, 2012, 86, .	4.7	116
17	Fast time variations of supernova neutrino fluxes and their detectability. Physical Review D, 2010, 82, .	4.7	65
18	Collective neutrino oscillations in nonspherical geometry. Physical Review D, 2008, 78, .	4.7	52

#	ARTICLE	IF	CITATIONS
19	Unparticle constraints from supernova 1987A. <i>Physical Review D</i> , 2007, 76, .	4.7	53
20	Physics of synchronized neutrino oscillations caused by self-interactions. <i>Physical Review D</i> , 2002, 65, .	4.7	132
21	Flavor Oscillations in the Supernova Hot Bubble Region: Nonlinear Effects of Neutrino Background. <i>Physical Review Letters</i> , 2002, 89, 191101.	7.8	127
22	Axions. <i>Space Science Reviews</i> , 2002, 100, 153-158.	8.1	7
23	Axions. <i>Space Sciences Series of ISSI</i> , 2002, , 153-158.	0.0	2
24	Stellar-evolution limits on axion properties. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1999, 72, 43-53.	0.4	4
25	Supernova Neutrino Opacity from Nucleon-Nucleon Bremsstrahlung and Related Processes. <i>Astrophysical Journal</i> , 1998, 507, 339-352.	4.5	188
26	Photon dispersion in a supernova core. <i>Physical Review D</i> , 1998, 57, 3235-3241.	4.7	11
27	Reduction of weak interaction rates in neutron stars by nucleon spin fluctuations: Degenerate case. <i>Physical Review D</i> , 1997, 55, 523-527.	4.7	12
28	Nucleon Spin Fluctuations and the Supernova Emission of Neutrinos and Axions. <i>Physical Review Letters</i> , 1996, 76, 2621-2624.	7.8	133
29	Neutrino dispersion in magnetized media and spin oscillations in the early Universe. <i>Nuclear Physics B</i> , 1996, 479, 3-24.	2.5	73
30	The paradox of axions surviving primordial magnetic fields. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 366, 224-228.	4.1	18
31	Can a mass inversion save solar neutrino oscillations from the LSND neutrino?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 366, 429-433.	4.1	28
32	Supernova neutrino scattering rates reduced by nucleon spin fluctuations: Perturbative limit. <i>Physical Review D</i> , 1996, 54, 2784-2792.	4.7	24
33	Neutrino oscillations and the supernova 1987A signal. <i>Physical Review D</i> , 1996, 54, 1194-1203.	4.7	111
34	Self-consistent approach to neutral-current processes in supernova cores. <i>Physical Review D</i> , 1995, 52, 1780-1799.	4.7	87
35	Red giant bound on the axion-electron coupling reexamined. <i>Physical Review D</i> , 1995, 51, 1495-1498.	4.7	133
36	Reduced neutrino opacities and the SN 1987A signal. <i>Physical Review D</i> , 1995, 51, 6635-6646.	4.7	38

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37	Standard and nonstandard plasma neutrino emission revisited. <i>Astrophysical Journal</i> , 1994, 425, 222.	4.5	161
38	Supernova bounds on neutrino radiative decays. <i>Astroparticle Physics</i> , 1993, 1, 377-386.	4.3	50
39	Raffelt and Seckel reply. <i>Physical Review Letters</i> , 1992, 68, 3116-3116.	7.8	11
40	Multiple-scattering suppression of the bremsstrahlung emission of neutrinos and axions in supernovae. <i>Physical Review Letters</i> , 1991, 67, 2605-2608.	7.8	76
41	Dark matter and the age of globular clusters. <i>Nature</i> , 1990, 343, 347-348.	27.8	10
42	Dark matter and thermal pulses in horizontal-branch stars. <i>Astrophysical Journal</i> , 1990, 354, 568.	4.5	31
43	Neutrino dispersion at finite temperature and density. <i>Nuclear Physics B</i> , 1988, 307, 924-936.	2.5	407
44	Magnetically induced neutrino oscillations and neutrino refractive effects in the early Universe. <i>Physical Review Letters</i> , 1988, 60, 879-881.	7.8	21
45	Mixing of the photon with low-mass particles. <i>Physical Review D</i> , 1988, 37, 1237-1249.	4.7	635
46	Bounds on exotic-particle interactions from SN1987A. <i>Physical Review Letters</i> , 1988, 60, 1793-1796.	7.8	393
47	Horizontal branch stars and the neutrino signal from SN 1987A. <i>Physical Review D</i> , 1988, 38, 3811-3812.	4.7	8