

# Jeffrey Nico

## List of Publications by Year in descending order

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47  
papers

3,002  
citations

304743

22  
h-index

276875

41  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1591  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the solar neutrino capture rate with gallium metal. Physical Review C, 1999, 60, .	2.9	458
2	Measurement of the solar neutrino capture rate with gallium metal. III. Results for the 2002â€“2007 data-taking period. Physical Review C, 2009, 80, .	2.9	457
3	Solar neutrino flux measurements by the Soviet-American gallium experiment (SAGE) for half the 22-year solar cycle. Journal of Experimental and Theoretical Physics, 2002, 95, 181-193.	0.9	375
4	The Russian-American Gallium Experiment (SAGE) Cr Neutrino Source Measurement. Physical Review Letters, 1996, 77, 4708-4711.	7.8	275
5	Measurement of the response of a Ga solar neutrino experiment to neutrinos from aAr37source. Physical Review C, 2006, 73, .	2.9	243
6	Measurement of the response of a gallium metal solar neutrino experiment to neutrinos from a51Crsource. Physical Review C, 1999, 59, 2246-2263.	2.9	229
7	Improved Determination of the Neutron Lifetime. Physical Review Letters, 2013, 111, 222501.	7.8	185
8	Precision measurement of the orthopositronium decay rate using the vacuum technique. Physical Review Letters, 1990, 65, 1344-1347.	7.8	103
9	Measurement of the neutron lifetime by counting trapped protons in a cold neutron beam. Physical Review C, 2005, 71, .	2.9	92
10	Neutron beta decay. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 104001.	3.6	51
11	Measurement of the Neutron Lifetime Using a Proton Trap. Physical Review Letters, 2003, 91, 152302.	7.8	48
12	New limit on theDcoefficient in polarized neutron decay. Physical Review C, 2000, 62, .	2.9	45
13	New Limit on Time-Reversal Violation in Beta Decay. Physical Review Letters, 2011, 107, 102301.	7.8	43
14	Upper bound on parity-violating neutron spin rotation inHe4. Physical Review C, 2011, 83, .	2.9	36
15	Characterization of a 6Li-loaded liquid organic scintillator for fast neutron spectrometry and thermal neutron detection. Applied Radiation and Isotopes, 2013, 77, 130-138.	1.5	36
16	Search for a $\langle T \rangle$ odd, $\langle P \rangle$ even triple correlation in neutron decay. Physical Review C, 2012, 86, .	2.9	34
17	Measurement of the Electron-Antineutrino Angular Correlation in Neutron $\langle \hat{I}^2 \rangle$ Decay. Physical Review Letters, 2017, 119, 042502.	7.8	33
18	Search for electron-neutrino transitions to sterile states in the BEST experiment. Physical Review C, 2022, 105, .	2.9	31

#	ARTICLE	IF	CITATIONS
19	Direct search for two-photon decay modes of orthopositronium. Physical Review Letters, 1991, 66, 1302-1305.	7.8	26
20	Radiative $\beta$ decay of the free neutron. Physical Review C, 2010, 81, .	2.9	26
21	Precision Measurement of the Radiative $\beta$ Decay of the Free Neutron. Physical Review Letters, 2016, 116, 242501.	7.8	23
22	The fundamental neutron physics facilities at NIST. Journal of Research of the National Institute of Standards and Technology, 2005, 110, 137.	1.2	23
23	emiT: An apparatus to test time reversal invariance in polarized neutron decay. Review of Scientific Instruments, 2004, 75, 5343-5355.	1.3	20
24	Measurement of the neutron decay electron-antineutrino angular correlation by the aCORN experiment. Physical Review C, 2021, 103, .	2.9	19
25	A slow neutron polarimeter for the measurement of parity-odd neutron rotary power. Review of Scientific Instruments, 2015, 86, 055101.	1.3	14
26	Significant disparity in base and sugar damage in DNA resulting from neutron and electron irradiation. Journal of Radiation Research, 2014, 55, 1081-1088.	1.6	10
27	Solar-neutrino results from SAGE. Physics of Atomic Nuclei, 2000, 63, 943-950.	0.4	8
28	A cryogenic radiometer for absolute neutron rate measurement. Review of Scientific Instruments, 2003, 74, 4280-4293.	1.3	8
29	Development and characterization of a high sensitivity segmented Fast Neutron Spectrometer (FaNS-2). Journal of Instrumentation, 2016, 11, P01006-P01006.	1.2	8
30	Precision determination of absolute neutron flux. Metrologia, 2018, 55, 460-485.	1.2	8
31	The aCORN backscatter-suppressed beta spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 867, 51-57.	1.6	7
32	Experimental upper bound and theoretical expectations for parity-violating neutron spin rotation in $^4\text{He}$ . Physical Review C, 2019, 100, .	2.9	6
33	Detecting the radiative decay mode of the neutron. Journal of Research of the National Institute of Standards and Technology, 2005, 110, 421.	1.2	5
34	aCORN: An experiment to measure the electron-antineutrino correlation coefficient in free neutron decay. Review of Scientific Instruments, 2017, 88, 083503.	1.3	4
35	Measurement of the response of a Ga solar neutrino experiment to neutrinos from an $^{37}\text{Ar}$ source. Journal of Physics: Conference Series, 2006, 39, 284-286.	0.4	3
36	MEASURING $^6\text{Li}$ ( $n, t$ ) AND $^{10}\text{B}$ ( $n, \alpha$ ) CROSS SECTIONS USING THE NIST ALPHA-GAMMA DEVICE. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
37	Radiative decay of the free neutron. AIP Conference Proceedings, 2007, , .	0.4	2
38	Proposed Measurement of the Parity-Violating Neutron Spin Rotation in 4He. AIP Conference Proceedings, 2006, , .	0.4	1
39	Neutron Lifetime Measurements. AIP Conference Proceedings, 2006, , .	0.4	1
40	Development of a segmented fast neutron spectrometer. Physics of Atomic Nuclei, 2007, 70, 133-139.	0.4	1
41	Ga source experiment for detection of short baseline neutrino oscillations. Journal of Physics: Conference Series, 2012, 375, 042068.	0.4	1
42	Time reversal and the neutron. Hyperfine Interactions, 2013, 214, 97-104.	0.5	1
43	Solar neutrino results and present status. Physics of Atomic Nuclei, 2002, 65, 2156-2160.	0.4	0
44	Measurement of the response of a Ga solar neutrino experiment to $^{37}\text{Ar}$ source. Physics of Atomic Nuclei, 2006, 69, 1820-1828.	0.4	0
45	A sectioned spectrometer of fast neutrons. Instruments and Experimental Techniques, 2009, 52, 25-32.	0.5	0
46	A new limit on time-reversal violation in beta decay: Results of the emiTII experiment. , 2012, , .		0
47	Time reversal and the neutron. , 2013, , 97-104.		0