

Natalie Jachowicz

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,137
citations

361413

20
h-index

377865

34
g-index

45
all docs

45
docs citations

45
times ranked

546
citing authors

#	ARTICLE	IF	CITATIONS
1	NuSTEC White Paper: Status and challenges of neutrino-nucleus scattering. Progress in Particle and Nuclear Physics, 2018, 100, 1-68.	14.4	206
2	Relativistic models for quasielastic neutrino scattering. Physical Review C, 2006, 73, .	2.9	86
3	Low-energy excitations and quasielastic contribution to electron-nucleus and neutrino-nucleus scattering in the continuum random-phase approximation. Physical Review C, 2015, 92, .	2.9	76
4	Continuum random phase approximation approach to charged-current neutrino-nucleus scattering. Physical Review C, 2002, 65, .	2.9	75
5	Cross sections for neutral-current neutrino-nucleus interactions: Applications for ^{12}C and ^{16}O . Physical Review C, 1999, 59, 3246-3255.	2.9	54
6	Electron-neutrino scattering off nuclei from two different theoretical perspectives. Physical Review C, 2016, 94, .	2.9	54
7	Influence of short-range correlations in neutrino-nucleus scattering. Physical Review C, 2016, 94, .	2.9	43
8	Impact of low-energy nuclear excitations on neutrino-nucleus scattering at MiniBooNE and T2K kinematics. Physical Review C, 2016, 94, .	2.9	41
9	Nuclear effects in electron-nucleus and neutrino-nucleus scattering within a relativistic quantum mechanical framework. Physical Review C, 2019, 100, .	2.9	37
10	Identifying Neutrinos and Antineutrinos in Neutral-Current Scattering Reactions. Physical Review Letters, 2004, 93, 082501.	7.8	32
11	Reconstructing Supernova-Neutrino Spectra using Low-Energy Beta Beams. Physical Review Letters, 2006, 96, 172301.	7.8	30
12	Cross sections for neutral-current neutrino scattering on ^{208}Pb . Physical Review C, 2002, 66, .	2.9	28
13	Electroweak single-pion production off the nucleon: From threshold to high invariant masses. Physical Review D, 2017, 95, .	4.7	27
14	Seagull and pion-in-flight currents in neutrino-induced $1N$ and $2N$ knockout. Physical Review C, 2017, 95, .	2.9	27
15	Constraints in modeling the quasielastic response in inclusive lepton-nucleus scattering. Physical Review C, 2020, 101, .	2.9	27
16	$\hat{\pi}^0$ -mediated pion production in nuclei. Physical Review C, 2009, 79, .	2.9	24
17	Quasielastic contribution to antineutrino-nucleus scattering. Physical Review C, 2014, 89, .	2.9	23
18	Untangling supernova-neutrino oscillations with \hat{I}^2 -beam data. Physical Review C, 2008, 77, .	2.9	22

#	ARTICLE	IF	CITATIONS
19	Electron versus Muon Neutrino Induced Cross Sections in Charged Current Quasielastic Processes. Physical Review Letters, 2019, 123, 052501.	7.8	22
20	New composition-dependent cooling and heating curves for galaxy evolution simulations. Monthly Notices of the Royal Astronomical Society, 2013, 433, 3005-3016.	4.4	21
21	Pion production within the hybrid relativistic plane wave impulse approximation model at MiniBooNE and MINERvA kinematics. Physical Review D, 2018, 97, .	4.7	19
22	Influence of supernova-neutrino spectra on the neutrino signal in a terrestrial detector. Physical Review C, 2003, 68, .	2.9	18
23	Modeling neutrino-induced charged pion production on water at T2K kinematics. Physical Review D, 2018, 97, .	4.7	14
24	Low-energy neutrino scattering in experiment and astrophysics. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 084003.	3.6	14
25	Forbidden transitions in neutral- and charged-current interactions between low-energy neutrinos and argon. Physical Review C, 2019, 100, .	2.9	14
26	Modeling quasielastic interactions of monoenergetic kaon decay-at-rest neutrinos. Physical Review C, 2021, 103, .	2.9	14
27	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle A \langle \text{mml:math} \rangle$ dependence of quasielastic charged-current neutrino-nucleus cross sections. Physical Review C, 2018, 97, .	2.9	13
28	Lepton kinematics in low-energy neutrino-argon interactions. Physical Review C, 2020, 101, .	2.9	11
29	Spin-dependent neutrino-induced nucleon knockout. Physical Review C, 2005, 71, .	2.9	10
30	Mean-field approach to reconstructed neutrino energy distributions in accelerator-based experiments. Physical Review C, 2018, 98, .	2.9	10
31	Neutrino energy reconstruction from semi-inclusive samples. Physical Review C, 2022, 105, .	2.9	10
32	Benchmarking intranuclear cascade models for neutrino scattering with relativistic optical potentials. Physical Review C, 2022, 105, .	2.9	9
33	Nuclear medium effects in neutrino- and antineutrino-nucleus scattering. European Physical Journal: Special Topics, 2021, 230, 4339-4356.	2.6	8
34	Doubly periodic structure for the study of inhomogeneous bulk fermion matter with spatial localizations. Physical Review C, 2011, 84, .	2.9	4
35	Angular distributions in Monte Carlo event generation of weak single-pion production. Physical Review D, 2021, 103, .	4.7	4
36	Detecting supernova neutrinos using neutrino-nucleus scattering reactions. Nuclear Physics A, 2005, 758, 51-54.	1.5	2

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37	On the importance of low-energy beta beams for supernova neutrino physics. European Physical Journal A, 2006, 27, 43-48.	2.5	2
38	A relativistic Glauber approach to quasi-elastic neutrino-nucleus scattering. Nuclear Physics, Section B, Proceedings Supplements, 2006, 155, 260-262.	0.4	2
39	Understanding supernova-neutrino physics using low-energy beta-beams. Progress in Particle and Nuclear Physics, 2006, 57, 350-352.	14.4	2
40	Low-energy neutrino-nucleus interactions and beta-beam neutrino. AIP Conference Proceedings, 2015, , .	0.4	1
41	Neutrino-Induced $1\text{-}\mu\text{e}$ Production. , 2016, , .		1
42	CRPA Calculations for Neutrino-Nucleus Scattering: From Very Low Energies to the Quasielastic Peak. , 2016, , .		0
43	Modeling Nuclear Effects for Neutrino-Nucleus Scattering in the Few-GeV Region. Springer Proceedings in Physics, 2019, , 155-156.	0.2	0
44	On the importance of low-energy beta beams for supernova neutrino physics. , 2006, , 43-48.		0