

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	Neutrino energy reconstruction from semi-inclusive samples. <i>Physical Review C</i> , 2022, 105, .	2.9	10
2	Benchmarking intranuclear cascade models for neutrino scattering with relativistic optical potentials. <i>Physical Review C</i> , 2022, 105, .	2.9	9
3	Angular distributions in MonteÂCarlo event generation of weak single-pion production. <i>Physical Review D</i> , 2021, 103, .	4.7	4
4	Modeling quasielastic interactions of monoenergetic kaon decay-at-rest neutrinos. <i>Physical Review C</i> , 2021, 103, .	2.9	14
5	Nuclear medium effects in neutrino- and antineutrino-nucleus scattering. <i>European Physical Journal: Special Topics</i> , 2021, 230, 4339-4356.	2.6	8
6	Constraints in modeling the quasielastic response in inclusive lepton-nucleus scattering. <i>Physical Review C</i> , 2020, 101, .	2.9	27
7	Lepton kinematics in low-energy neutrino-argon interactions. <i>Physical Review C</i> , 2020, 101, .	2.9	11
8	Electron versus Muon Neutrino Induced Cross Sections in Charged Current Quasielastic Processes. <i>Physical Review Letters</i> , 2019, 123, 052501.	7.8	22
9	Nuclear effects in electron-nucleus and neutrino-nucleus scattering within a relativistic quantum mechanical framework. <i>Physical Review C</i> , 2019, 100, .	2.9	37
10	Low-energy neutrino scattering in experiment and astrophysics. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 084003.	3.6	14
11	Forbidden transitions in neutral- and charged-current interactions between low-energy neutrinos and argon. <i>Physical Review C</i> , 2019, 100, .	2.9	14
12	Modeling Nuclear Effects for Neutrino-Nucleus Scattering in the Few-GeV Region. <i>Springer Proceedings in Physics</i> , 2019, , 155-156.	0.2	0
13	Pion production within the hybrid relativistic plane wave impulse approximation model at MiniBooNE and MINERvA kinematics. <i>Physical Review D</i> , 2018, 97, .	4.7	19
14	NuSTEC ÂWhite Paper: Status and challenges of neutrinoâ“nucleus scattering. <i>Progress in Particle and Nuclear Physics</i> , 2018, 100, 1-68.	14.4	206
15	Mean-field approach to reconstructed neutrino energy distributions in accelerator-based experiments. <i>Physical Review C</i> , 2018, 98, .	2.9	10
16	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi></mml:math> dependence of quasielastic charged-current neutrino-nucleus cross sections. <i>Physical Review C</i> , 2018, 97, .	2.9	13
17	Modeling neutrino-induced charged pion production on water at T2K kinematics. <i>Physical Review D</i> , 2018, 97, .	4.7	14
18	Electroweak single-pion production off the nucleon: From threshold to high invariant masses. <i>Physical Review D</i> , 2017, 95, .	4.7	27

#	ARTICLE	IF	CITATIONS
19	Seagull and pion-in-flight currents in neutrino-induced $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \text{ } 1 \langle / \text{mml:mn} \rangle \langle \text{mml:mi} \text{ } N \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:math}$ and $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \text{ } 2 \langle / \text{mml:mn} \rangle \langle \text{mml:mi} \text{ } N \langle / \text{mml:mi} \rangle \langle / \text{mml:mrow} \rangle \langle \text{mml:math}$ knockout. <i>Physical Review C</i> , 2017, 95, .	2.9	27
20	Electron-neutrino scattering off nuclei from two different theoretical perspectives. <i>Physical Review C</i> , 2016, 94, .	2.9	54
21	Influence of short-range correlations in neutrino-nucleus scattering. <i>Physical Review C</i> , 2016, 94, .	2.9	43
22	CRPA Calculations for Neutrino-Nucleus Scattering: From Very Low Energies to the Quasielastic Peak. , 2016, , .		0
23	Impact of low-energy nuclear excitations on neutrino-nucleus scattering at MiniBooNE and T2K kinematics. <i>Physical Review C</i> , 2016, 94, .	2.9	41
24	Neutrino-Induced $\bar{\nu}$ Production. , 2016, , .		1
25	Low-energy excitations and quasielastic contribution to electron-nucleus and neutrino-nucleus scattering in the continuum random-phase approximation. <i>Physical Review C</i> , 2015, 92, .	2.9	76
26	Low-energy neutrino-nucleus interactions and beta-beam neutrino. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	1
27	Quasielastic contribution to antineutrino-nucleus scattering. <i>Physical Review C</i> , 2014, 89, .	2.9	23
28	New composition-dependent cooling and heating curves for galaxy evolution simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 3005-3016.	4.4	21
29	Doubly periodic structure for the study of inhomogeneous bulk fermion matter with spatial localizations. <i>Physical Review C</i> , 2011, 84, .	2.9	4
30	$\tilde{\nu}$ -mediated pion production in nuclei. <i>Physical Review C</i> , 2009, 79, .	2.9	24
31	Untangling supernova-neutrino oscillations with $\tilde{\nu}$ -beam data. <i>Physical Review C</i> , 2008, 77, .	2.9	22
32	Relativistic models for quasielastic neutrino scattering. <i>Physical Review C</i> , 2006, 73, .	2.9	86
33	On the importance of low-energy beta beams for supernova neutrino physics. <i>European Physical Journal A</i> , 2006, 27, 43-48.	2.5	2
34	A relativistic Glauber approach to quasi-elastic neutrino-nucleus scattering. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006, 155, 260-262.	0.4	2
35	Understanding supernova-neutrino physics using low-energy beta-beams. <i>Progress in Particle and Nuclear Physics</i> , 2006, 57, 350-352.	14.4	2
36	Reconstructing Supernova-Neutrino Spectra using Low-Energy Beta Beams. <i>Physical Review Letters</i> , 2006, 96, 172301.	7.8	30

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37	On the importance of low-energy beta beams for supernova neutrino physics. , 2006, , 43-48.	0	
38	Detecting supernova neutrinos using neutrino-nucleus scattering reactions. Nuclear Physics A, 2005, 758, 51-54.	1.5	2
39	Spin-dependent neutrino-induced nucleon knockout. Physical Review C, 2005, 71, .	2.9	10
40	Identifying Neutrinos and Antineutrinos in Neutral-Current Scattering Reactions. Physical Review Letters, 2004, 93, 082501.	7.8	32
41	Influence of supernova-neutrino spectra on the neutrino signal in a terrestrial detector. Physical Review C, 2003, 68, .	2.9	18
42	Cross sections for neutral-current neutrino scattering on ^{208}Pb . Physical Review C, 2002, 66, .	2.9	28
43	Continuum random phase approximation approach to charged-current neutrino-nucleus scattering. Physical Review C, 2002, 65, .	2.9	75
44	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