JosÃ© M UdÃ-as

List of Publications by Year
in descending order

220 papers	4,009 citations	134610 34 h-index	175968 55 g-index
226 all docs	226 docs citations	226 times ranked	2348 citing authors

#	Article	IF	Citations
1	Dictionary-based software for proton dose reconstruction and submilimetric range verification. Physics in Medicine and Biology, 2022, 67, 045002.	1.6	6
2	Neutrino energy reconstruction from semi-inclusive samples. Physical Review C, 2022, 105, .	1.1	10
3	In vivo production of fluorine-18 in a chicken egg tumor model of breast cancer for proton therapy range verification. Scientific Reports, 2022, 12, 7075.	1.6	3
4	Benchmarking intranuclear cascade models for neutrino scattering with relativistic optical potentials. Physical Review C, 2022, 105, .	1.1	9
5	Probing for high-momentum protons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts></mml:math> via the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none		

#	Article	IF	Citations
19	MultiRBE: Treatment planning for protons with selective radiobiological effectiveness. Medical Physics, 2019, 46, 4276-4284.	1.6	17
20	Nuclear effects in electron-nucleus and neutrino-nucleus scattering within a relativistic quantum mechanical framework. Physical Review C, 2019, 100, .	1.1	37
21	Realistic spectral function model for charged-current quasielastic-like neutrino and antineutrino scattering cross sections on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>12</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2019, 99, .	1.1	17
22	Photoacoustic dose monitoring in clinical high-energy photon beams. Biomedical Physics and Engineering Express, 2019, 5, 035028.	0.6	4
23	Properties of low-lying states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Co</mml:mi><mml:mprescripts /><mml:none /><mml:mn>65</mml:mn></mml:mmultiscripts></mml:math> from lifetime measurements. Physical Review C, 2019, 99, .	1.1	3
24	Optimizing time-pickup algorithms in radiation detectors with a genetic algorithm. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 927, 54-62.	0.7	10
25	Î² decay of In133 : Î³ emission from neutron-unbound states in Sn133. Physical Review C, 2019, 99, .	1.1	9
26	PeneloPET v3.0, an improved multiplatform PET Simulator. , 2019, , .		3
27	SiPM-based PET detector module for a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e188" altimg="si3.gif"><mml:mn>4</mml:mn><mml:mi>Ï€</mml:mi></mml:math> span scanner. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 18-21.	0.7	5
28	Simultaneous measurement of the spectral and temporal properties of a LINAC pulse from outside the treatment room. Radiation Physics and Chemistry, 2019, 158, 1-5.	1.4	2
29	Fast optimized Monte Carlo phase-space generation and dose prediction for low energy x-ray intra-operative radiation therapy. Physics in Medicine and Biology, 2019, 64, 075002.	1.6	8
30	Iterative Algorithm for Optimal Super Resolution Sampling. Springer Proceedings in Physics, 2019, , 141-143.	0.1	0
31	Super-iterative image reconstruction in PET. , 2019, , .		1
32	Awake preclinical brain PET imaging based on point sources. , 2019, , .		1
33	Dynamic PET imaging with the generalized method of moments. , 2019, , .		0
34	Application of the pseudoinverse for real-time 3D PET image reconstruction. , 2019, , .		1
35	Improving PET Quantification of Small Animal [68Ga]DOTA-Labeled PET/CT Studies by Using a CT-Based Positron Range Correction. Molecular Imaging and Biology, 2018, 20, 584-593.	1.3	20
36	Nuclear effects in (anti)neutrino charge-current quasielastic scattering at MINER Î½A kinematics. Journal of Physics: Conference Series, 2018, 1023, 012028.	0.3	0

#	Article	IF	Citations
37	EP-1772: Dose variability with breast tissue assignation for the INTRABEAM device. Radiotherapy and Oncology, 2018, 127, S950-S951.	0.3	0
38	Teaching treatment planning for protons with educational openâ€source software: experience with FoCa and matRad. Journal of Applied Clinical Medical Physics, 2018, 19, 302-306.	0.8	3
39	USCT reference data base: conclusions from the first SPIE USCT data challenge and future directions. , 2018, , .		5
40	Investigation of Low-lying States in ^{133}Sn Populated in the $eta $ Decay of ^{133}In Using Isomer-selective Laser Ionization. Acta Physica Polonica B, 2018, 49, 523.	0.3	4
41	Time domain reconstruction of sound speed and attenuation in ultrasound computed tomography using full wave inversion. Journal of the Acoustical Society of America, 2017, 141, 1595-1604.	0.5	78
42	Performance evaluation of novel LaBr 3 (Ce) scintillator geometries for fast-timing applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 857, 98-105.	0.7	31
43	Improved misfit function for attenuation and speed reconstruction in ultrasound computed tomography. , 2017, , .		0
44	223 Ra-dichloride spectrometric characterization: Searching for the presence of long-lived isotopes with radiological protection implications. Physica Medica, 2017, 35, 97-101.	0.4	6
45	Abstract ID: 83 Hybrid Monte Carlo for low-energy X-rays intraoperative radiation therapy dose calculation. Physica Medica, 2017, 42, 17.	0.4	2
46	Beta decay of⁶⁶Mn to theN= 40 nucleus⁶⁶Fe. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 125103.	1.4	5
47	Search for shape-coexisting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>0</mml:mn><mml:mo>+</mml:mo></mml:msup></mml:math> states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ni</mml:mi><mml:mprescripts /><mml:none /><mml:mn>66</mml:mn></mml:mmultiscripts></mml:math> from lifetime measurements. Physical Review C, 2017, 95, .	1.1	19
48	Efficiency measurement and Monte Carlo simulations of a CeBr 3 scintillator. Applied Radiation and Isotopes, 2017, 120, 71-75.	0.7	8
49	Data-driven Improved Sampling in PET. , 2017, , .		3
50	Time over Threshold Data Acquisition System for PET. , 2017, , .		0
51	Real-Time Accurate Rebinning of PET Data Based on the Pseudo-Inverse of the Axial System Matrix. , 2017, , .		0
52	Optimizing Time-Pickup Algorithms in Radiation Detectors with a Genetic Algorithm. , 2017, , .		0
53	Charged-current inclusive neutrino cross sections in the SuperScaling model. AIP Conference Proceedings, 2016, , .	0.3	0
54	Charged-current inclusive neutrino cross sections in the SuperScaling model. Journal of Physics: Conference Series, 2016, 724, 012020.	0.3	0

#	Article	IF	Citations
55	Nuclear astrophysics with radioactive ions at FAIR. Journal of Physics: Conference Series, 2016, 665, 012044.	0.3	9
56	Experimental validation of gallium production and isotope-dependent positron range correction in PET. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 814, 110-116.	0.7	8
57	Full-wave attenuation reconstruction in the time domain for ultrasound computed tomography. , 2016, , .		4
58	Global relativistic folding optical potential and the relativistic Green's function model. Physical Review C, 2016, 94, .	1.1	9
59	Evaluation of PeneloPET Simulations of Biograph PET/CT Scanners. IEEE Transactions on Nuclear Science, 2016, 63, 1367-1374.	1.2	12
60	Ultrasound computed tomography for quantitative breast imaging. , 2016, , .		6
61	Non contact elastographic techniques. , 2016, , .		0
62	Refraction correction in Full Angle Spatial image Compounding. , 2016, , .		2
63	Digital strategies for time and energy measurement for ultra fast scintillators. , 2016, , .		0
64	Personal dosimetry geolocalized system for radiation monitoring. , 2016, , .		2
65	Automatic Cardiac Self-Gating of Small-Animal PET Data. Molecular Imaging and Biology, 2016, 18, 109-116.	1.3	5
66	Evaluation of inorganic scintillators for high performance ToF PET applications. , 2015, , .		1
67	Regularization of image reconstruction in ultrasound computed tomography. , 2015, , .		3
68	Digital processing of scintillator signals for fast timing applications. , 2015, , .		2
69	Performance evaluation of LaBr<inf>3</inf>(Ce) crystal geometries designed for fast timing applications. , 2015, , .		0
70	Simulation, development and testing of a PET detector prototype using monolithic scintillator crystals treated with the sub-surface engraving technique. , 2015, , .		3
71	Improved quantification for local regions of interest in preclinical PET imaging. Physics in Medicine and Biology, 2015, 60, 7127-7149.	1.6	9
72	Superscaling in electron-nucleus scattering and its link to CC and NC QE neutrino-nucleus scattering. AIP Conference Proceedings, 2015, , .	0.3	0

#	Article	IF	Citations
73	Phase space determination from measured dose data for intraoperative electron radiation therapy. Physics in Medicine and Biology, 2015, 60, 375-401.	1.6	8
74	Simulation of triple coincidences in PET. Physics in Medicine and Biology, 2015, 60, 117-136.	1.6	26
75	Monte Carlo simulations versus experimental measurements in a small animal PET system. A comparison in the NEMA NU 4-2008 framework. Physics in Medicine and Biology, 2015, 60, 151-162.	1.6	3
76	Neutral current quasielastic (anti)neutrino scattering beyond the Fermi gas model at MiniBooNE and BNL kinematics. Physical Review C, 2015, 91, .	1.1	7
77	Enhanced time response of 1-in. LaBr3(Ce) crystals by leading edge and constant fraction techniques. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 795, 144-150.	0.7	25
78	Multi-modal Ultrasound Imaging for Breast Cancer Detection. Physics Procedia, 2015, 63, 134-140.	1.2	12
79	Tissue-Dependent and Spatially-Variant Positron Range Correction in 3D PET. IEEE Transactions on Medical Imaging, 2015, 34, 2394-2403.	5.4	27
80	Recovery and normalization of triple coincidences in PET. Medical Physics, 2015, 42, 1398-1410.	1.6	26
81	Fast Timing Study of the Î²^{â^'} Decay of ⁶³Mn to ⁶³Fe. , 2015, , .		3
82	Feasibility assessment of the interactive use of a Monte Carlo algorithm in treatment planning for intraoperative electron radiation therapy. Physics in Medicine and Biology, 2014, 59, 7159-7179.	1.6	16
83	Nuclear effects in neutrino and antineutrino charged-current quasielastic scattering at<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>MINER</mml:mtext><mml:mi>Î½</mml:mi><mml:mi mathvariant="normal">A</mml:mi></mml:mrow></mml:math>kinematics. Physical Review D, 2014, 89, .	1.6	28
84	Charged-current quasielastic neutrino scattering cross sections on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow /><mml:mn>12</mml:mn></mml:msup></mml:math>C with realistic spectral and scaling functions. Physical Review C, 2014, 89, .	1.1	22
85	Heterogeneity in [¹⁸ F]Fluorodeoxyglucose Positron Emission Tomography/Computed Tomography of Nonâ€“Small Cell Lung Carcinoma and Its Relationship to Metabolic Parameters and Pathologic Staging. Molecular Imaging, 2014, 13, 7290.2014.00032.	0.7	31
86	Simulations, testing and results for the pixelation of LYSO crystals for gamma detectors using SSLE techniques. , 2014, , .		2
87	Positron range estimations with PeneloPET. Physics in Medicine and Biology, 2013, 58, 5127-5152.	1.6	56
88	Relativistic description of final-state interactions in neutral-current neutrino and antineutrino cross sections. Physical Review C, 2013, 88, .	1.1	22
89	Study of the time response of a LuAG(Pr) crystal for fast timing applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 713, 27-32.	0.7	11
90	Off-shell effects in the relativistic mean field model and their role in CC (anti)neutrino scattering at MiniBooNE kinematics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 727, 265-271.	1.5	12

#	Article	IF	Citations
91	Neutral current (anti)neutrino scattering: Relativistic mean field and superscaling predictions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1471-1474.	1.5	31
92	Fast timing study of a CeBr3 crystal: Time resolution below 120ps at 60Co energies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 701, 235-242.	0.7	48
93	MRI compatibility of position-sensitive photomultiplier depth-of-interaction PET detectors modules for in-line multimodality preclinical studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 702, 83-87.	0.7	6
94	Improved dead-time correction for PET scanners: application to small-animal PET. Physics in Medicine and Biology, 2013, 58, 2059-2072.	1.6	7
95	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Î²</mml:mi><mml:mo>â^'</mml:mo></mml:msup></mml:math>decay of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>65</mml:mn></mml:msup></mml:math>Mn to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>65</mml:mn></mml:msup></mml:math>Fe. Physical	1.1	16
96	Production of positron-gamma emitters for multiplexed PET (mPET) imaging. , 2013, , .		0
97	Simulation of triple coincidences in PET. , 2013, , .		0
98	Î²â^'-decay of [sup 65]Mn to [sup 65]Fe. , 2013, , .		0
99	Time resolution of a 1-inch cylindrical CeBr[sub 3] crystal at [sup 60]Co energies. , 2013, , .		0
100	Structure of [sup 81]Ga populated from the Î²â^' decay of [sup 81]Zn. , 2013, , .		0
101	Scaling of positron range distributions in biological materials. , 2013, , .		0
102	PeneloPET study of the biograph PET scanner. , 2013, , .		0
103	Misalignments calibration in small-animal PET scanners based on rotating planar detectors and parallel-beam geometry. Physics in Medicine and Biology, 2012, 57, 7493-7518.	1.6	4
104	Relativistic models for quasi-elastic neutrino-nucleus scattering. , 2012, , .		2
105	Quasi elastic cross sections for the209Bi(e,e'p)208Pbreaction: Jefferson Lab experiment E06007. Journal of Physics: Conference Series, 2012, 381, 012101.	0.3	0
106	Scaling ideas in neutrino scattering reactions: application to the MiniBooNE experiment. Journal of Physics: Conference Series, 2012, 366, 012006.	0.3	0
107	Regional specificity of thalamic volume deficits in male adolescents with early-onset psychosis. British Journal of Psychiatry, 2012, 200, 30-36.	1.7	23
108	Optimization of Monte Carlo Code for Clinical Simulation of Electron Beams. International Journal of Radiation Oncology Biology Physics, 2012, 84, S870-S871.	0.4	1

#	Article	IF	Citations
109	Superscaling predictions for neutrino-induced charged-current charged pion production at MiniBooNE. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 711, 178-183.	1.5	12
110	Quantification limits of iterative PET reconstruction algorithms and improved estimation of kinetic constants. , 2011, , .		1
111	GPU-Based Fast Iterative Reconstruction of Fully 3-D PET Sinograms. IEEE Transactions on Nuclear Science, 2011, 58, 2257-2263.	1.2	29
112	Deadtime and pile-up correction method based on the singles to coincidences ratio for PET. , 2011, , .		1
113	Neutron densities from parity-violating elastic electron scattering. Journal of Physics: Conference Series, 2011, 312, 092044.	0.3	5
114	Study of CT-based positron range correction in high resolution 3D PET imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S172-S175.	0.7	18
115	Fully 3D GPU PET reconstruction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S169-S171.	0.7	8
116	Relativistic Description of 3He (e, eâ€² p)2H. Few-Body Systems, 2011, 50, 359-362.	0.7	3
117	The electronâ€“ion scattering experiment ELISe at the International Facility for Antiproton and Ion Research (FAIR)â€”A conceptual design study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, 60-76.	0.7	85
118	Relativistic analyses of quasielastic neutrino cross sections at MiniBooNE kinematics. Physical Review D, 2011, 84, .	1.6	68
119	Assessment of new photosensors for fast timing applications with large scintillator detectors. , 2011, , .		3
120	PeneloPET simulations of the Biograph ToF clinical PET scanner. , 2011, , .		3
121	Design of DOI PET detector modules using phoswich and SiPMs: First results. , 2011, , .		4
122	Measurement of activity produced by low energy proton beam in metals using off-line PET imaging. , 2011, , .		1
123	Relativistic descriptions of quasielastic charged-current neutrino-nucleus scattering: Application to scaling and superscaling ideas. Physical Review C, 2011, 83, .	1.1	21
124	Precise Extraction of the Induced Polarization in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts><mml:mo stretchy="false">(</mml:mo><mml:mi>e</mml:mi><mml:mo>,</mml:mo><mml:msup><mml:mi>e</mml:mi><mml:mo>â€²</mml:mo>	2.9	27
125	Scaling function, spectral function, and nucleon momentum distribution in nuclei. Physical Review C, 2011, 83, .	1.1	25
126	A general framework to study positron range distributions. , 2011, , .		1

#	Article	IF	Citations
127	Relativistic Descriptions of Final-State Interactions in Charged-Current Quasielastic Neutrino-Nucleus Scattering at MiniBooNE Kinematics. Physical Review Letters, 2011, 107, 172501.	2.9	51
128	Iterative reconstruction of whole accelerator phase spaces for Intraoperative Radiation Therapy (IORT) from measured dose data. , 2011, , .		1
129	(e, eâ€™p) reaction at true quasielastic kinematics in [sup 16]O, [sup 12]C and [sup 208]Pb at JLab. , 2010, , .		0
130	Performance Evaluation of SiPM Photosensors in the Presence of Magnetic Fields. AIP Conference Proceedings, 2010, , .	0.3	0
131	Superscaling analysis of the Coulomb sum rule in quasielastic electronâ€“nucleus scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 250-257.	1.5	12
132	Performance evaluation of SiPM photodetectors for PET imaging in the presence of magnetic fields. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 308-316.	0.7	56
133	Parity-violating elastic electron scattering and nuclear structure. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 064019.	1.4	16
134	Performance evaluation for ⁶⁸Ga and ¹⁸F of the ARGUS small-animal PET scanner based on the NEMA NU-4 standard. , 2010, , .		6
135	Polarization Transfer in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>He</mml:mi><mml:mprescripts /><mml:none /><mml:mn>4</mml:mn></mml:mmultiscripts><mml:mo stretchy="false">(</mml:mo><mml:mover) Tj ETQq1 1 0.784314 rgBT /Ove	2.9	87
136	Monte Carlo based dose estimation in intraoperative radiotherapy. , 2010, , .		2
137	Validation of PeneloPET positron range estimations. , 2010, , .		4
138	Meson-exchange currents and final-state interactions in quasielastic electron scattering at high momentum transfers. Physical Review C, 2010, 81, .	1.1	10
139	Measurements of the Electric Form Factor of the Neutron up to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Q</mml:mi><mml:mn>2</mml:mn></mml:msup><mml:mo>=</mml:mo><mml:mn>3.4</mml:mn the Reaction<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mn /><mml:mn>3</mml:mn></mml:msup><mml:mover accent="true. Physical Review Letters, 2010, 105, 262302	2.9	110
140	Validation of NEMA NU4–2008 scatter fraction estimation with ¹⁸F and ⁶⁸Ga for the ARGUS smallanimal PET scanner. , 2010, , .		1
141	GPU acceleration of a fully 3D Iterative Reconstruction Software for PET using CUDA. , 2009, , .		8
142	Relativistic descriptions of inclusive quasielastic electron scattering: Application to scaling and superscaling ideas. Physical Review C, 2009, 80, .	1.1	37
143	Positron range effects in high resolution 3D PET imaging. , 2009, , .		17
144	Nuclear effects in electron reactions and their impact on neutrino processes. , 2009, , .		1

#	Article	IF	Citations
145	Neutrino Interactions Importance to Nuclear Physics. AIP Conference Proceedings, 2009, , .	0.3	2
146	Relativistic models for electron and neutrino-nucleus scattering. , 2009, , .		3
147	Overview of neutrino-nucleus quasielastic scattering. , 2009, , .		1
148	Nuclear isospin mixing and elastic parity-violating electron scattering. Nuclear Physics A, 2009, 828, 306-332.	0.6	29
149	Gyral and Sulcal Cortical Thinning in Adolescents with First Episode Early-Onset Psychosis. Biological Psychiatry, 2009, 66, 1047-1054.	0.7	45
150	PeneloPET, a Monte Carlo PET simulation tool based on PENELOPE: features and validation. Physics in Medicine and Biology, 2009, 54, 1723-1742.	1.6	76
151	Crossing symmetry and phenomenological widths in effective Lagrangian models of the pion photoproduction process. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 678, 438-442.	1.5	10
152	Spin asymmetry for the 160(<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mi>Î”</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1232</mml:mn><mml:mo stretchy="false">)</mml:. Physics Lette reaction in the	1.5	3
153	Properties of nucleon resonances by means of a genetic algorithm. Physical Review C, 2008, 77, .	1.1	21
154	Pion production off the deuteron with real photons including polarization observables. AIP Conference Proceedings, 2008, , .	0.3	1
155	Frequency selective signal extrapolation for compensation of missing data in sinograms. , 2008, , .		8
156	Superscaling Predictions for Neutral Current Quasielastic Neutrino-Nucleus Scattering. Physical Review Letters, 2008, 100, 052502.	2.9	11
157	Nonlinear effect of pile-up in the quantification of a small animal PET scanner. , 2008, , .		0
158	Performance evaluation of SiPM detectors for PET imaging in the presence of magnetic fields. , 2008, , .		13
159	Effects of the Super Bialkali photocathode on the performance characteristics of a position-sensitive depth-of-interaction PET detector module. , 2008, , .		2
160	Final-state interactions in the superscaling analysis of neutral-current quasielastic neutrino scattering. Physical Review C, 2008, 77, .	1.1	10
161	Superscaling analyses of inclusive electron scattering and their extension to charge-changing neutrino cross sections in nuclei. AIP Conference Proceedings, 2007, , .	0.3	1
162	Influence of random, pile-up and scatter corrections in the quantification properties of small-animal PET scanners. , 2007, , .		0

#	Article	IF	Citations
163	Revised consistency conditions for PET data. , 2007, , .		1
164	Validation of PeneloPET against two small animal PET scanners. , 2007, , .		4
165	Helicity dependence and contribution to the Gerasimov-Drell-Hearn sum rule of theÎ³â†'dâ†'â†'Ï€NNreaction channels in the energy region from threshold up to theÎ"(1232)resonance. Physical Review C, 2007, 76, .	1.1	17
166	Final-state interactions and superscaling in the semi-relativistic approach to quasielastic electron and neutrino scattering. Physical Review C, 2007, 75, .	1.1	46
167	Improved image reconstruction in small animal PET using a priori estimates of single-pixel events. , 2007, , .		7
168	Eta photoproduction as a test of the extended chiral symmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 651, 369-373.	1.5	9
169	Scaling and isospin effects in quasielastic leptonâ€"nucleus scattering in the relativistic mean field approach. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 653, 366-372.	1.5	52
170	Analysis of the quadrupole deformation of Î"(1232) within an effective Lagrangian model for pion photoproduction from the nucleon. European Physical Journal A, 2007, 31, 572.	1.0	9
171	Noise and physical limits to maximum resolution of PET images. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 934-937.	0.7	4
172	Analysis of the quadrupole deformation of â–³(1232) within an effective Lagrangian model for pion photoproduction from the nucleon. , 2007, , 219-221.		0
173	Relativistic models for quasielastic neutrino scattering. Physical Review C, 2006, 73, .	1.1	86
174	Optimal and Robust PET Data Sinogram Restoration Based on the Response of the System. , 2006, , .		2
175	Effective Lagrangian Approach to pion photoproduction from the nucleon. Annals of Physics, 2006, 321, 1408-1456.	1.0	46
176	Normalization in 3D PET: Dependence on the Activity Distribution of the Source. , 2006, , .		1
177	PeneloPET, a Monte Carlo PET simulation toolkit based on PENELOPE: Features and Validation. , 2006, , .		8
178	FIRST: Fast Iterative Reconstruction Software for (PET) tomography. Physics in Medicine and Biology, 2006, 51, 4547-4565.	1.6	86
179	Gamow-Teller strength distributions in Xe isotopes. Physical Review C, 2006, 74, .	1.1	8
180	Superscaling analysis of inclusive electron scattering and its extension to charge-changing neutrino-nucleus cross sections beyond the relativistic Fermi gas approach. Physical Review C, 2006, 74, .	1.1	40

#	Article	IF	Citations
181	Scaling functions and superscaling in medium and heavy nuclei. Physical Review C, 2006, 73, .	1.1	26
182	Hints on the quadrupole deformation of the Î”(1232). Physical Review C, 2006, 73, .	1.1	13
183	Nuclear Transparencies in Relativistic Models. Nuclear Physics A, 2005, 755, 511-514.	0.6	3
184	Final state interaction effects in neutrino-nucleus quasielastic scattering. Nuclear Physics, Section B, Proceedings Supplements, 2005, 139, 226-229.	0.5	1
185	Superscaling in Charged Current Neutrino Quasielastic Scattering in the Relativistic Impulse Approximation. Physical Review Letters, 2005, 95, 252502.	2.9	84
186	Charge and matter distributions and form factors of light, medium, and heavy neutron-rich nuclei. Physical Review C, 2005, 72, .	1.1	96
187	Superscaling, scaling functions, and nucleon momentum distributions in nuclei. Physical Review C, 2005, 71, .	1.1	32
188	Dynamics of the quasielasticO16(e,eâ€²p)reaction atQ2â‰ˆ0.8(GeVâ•c)2. Physical Review C, 2004, 70, .	1.1	30
189	Superscaling in nuclei: A search for a scaling function beyond the relativistic Fermi gas model. Physical Review C, 2004, 69, .	1.1	33
190	Analysis of polarizedO16(eâƒ—,eâ€²pâƒ—)observables within the relativistic distorted wave impulse approximation. Physical Review C, 2004, 69, .	1.1	17
191	A(eâƒ—,eâ€²pâƒ—)Bresponses: From bare nucleons to complex nuclei. Physical Review C, 2004, 70, .	1.1	15
192	Measurement of RLT and ATL in the 4He(e, eâ€™p)3H reaction at pmiss of 130-300 MeV/ c. European Physical Journal A, 2004, 22, 449-454.	1.0	3
193	Nuclear transparencies in relativistic A(e,eâ€²p) models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 177-186.	1.5	34
194	Nuclear model effects in charged-current neutrino-nucleus quasielastic scattering. Physical Review C, 2003, 68, .	1.1	94
195	Polarization Transfer in theHe4(eâ†',eâ€²pâ†')H3Reaction up toQ2=2.6â€‰â€Šâ€Š(GeV/c)2. Physical Review Letters, 2003, 91, 052301.	2.9	117
196	Polarization transfer in the 4HeH reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 500, 47-52.	1.5	120
197	Role of relativity in electron scattering: kinematical versus dynamical effects. Nuclear Physics A, 2001, 689, 449-452.	0.6	2
198	Relativistic mean field approximation to the analysis of16O(e,eâ€²p)15Ndata at |Q2| <~0.4â€,(GeV/c)2. Physical Review C, 2001, 64, .	1.1	52

#	Article	IF	Citations
199	New Aspects of Nuclear Structure and QE Electron Scattering. , 2001, , 221-232.		0
200	Relativistic nuclear structure effects in(e,eâ€²pâ†'). Physical Review C, 2000, 62, .	1.1	48
201	Quasielastic Scattering from Relativistic Bound Nucleons: Transverse-Longitudinal Response. Physical Review Letters, 1999, 83, 5451-5454.	2.9	85
202	Strange form factors of the proton: a new analysis of the Î½ (ovrarr/BC) data of the BNL-734 experiment. Nuclear Physics A, 1999, 651, 277-286.	0.6	35
203	Analysis of factorization in (e,eâ€²p) reactions: A survey of the relativistic plane wave impulse approximation. Nuclear Physics A, 1998, 632, 323-362.	0.6	59
204	Relativistic current densities for bound spin-orbit partners and the longitudinal-transverse response in (e,e'p) processes. Nuclear Physics A, 1998, 643, 189-204.	0.6	32
205	M1 excitations in30Si and31S from the quasiparticle random-phase approximation. Journal of Physics G: Nuclear and Particle Physics, 1997, 23, 1673-1683.	1.4	4
206	Inelastic Î½ and scattering on nuclei and â€œstrangenessâ€•of the nucleon. Nuclear Physics A, 1997, 623, 471-497.	0.6	66
207	Correlations and the cross section of exclusive (e, eâ€²p) reactions for 16O. Nuclear Physics A, 1997, 625, 633-650.	0.6	13
208	Parity violation in quasielastic electron scattering from closed-shell nuclei. Nuclear Physics A, 1996, 602, 263-307.	0.6	56
209	Relativistic analysis of thePb208(e,Âeâ€²p)Tl207reaction at high momentum. Physical Review C, 1996, 53, R1488-R1491.	1.1	49
210	Spin Dependent Momentum Distributions in Deformed Nuclei. Annals of Physics, 1995, 239, 351-375.	1.0	4
211	Probing deformed orbitals with A(e, eâ€² N)B reactions. Nuclear Physics A, 1995, 584, 256-278.	0.6	8
212	Effects of relativistic optical potentials in (e,eâ€²p). Progress in Particle and Nuclear Physics, 1995, 34, 381-382.	5.6	0
213	Exchange current corrections to neutrino-nucleus scattering. I. Nuclear matter. Physical Review C, 1995, 52, 3399-3415.	1.1	29
214	Relativistic versus nonrelativistic optical potentials inA(e,eâ€™p)Breactions. Physical Review C, 1995, 51, 3246-3255.	1.1	94
215	Exchange Current Corrections to Neutrino-Nucleus Scattering. Physical Review Letters, 1995, 74, 4993-4996.	2.9	29
216	Spectroscopic factors inCa40andPb208from (e,eâ€™p): Fully relativistic analysis. Physical Review C, 1993, 48, 2731-2739.	1.1	145

#	Article	IF	Citations
217	Scattering of polarized electrons from deformed nuclei: The case of elastic and inelastic scattering to discrete states in 21Ne. Nuclear Physics A, 1992, 550, 391-420.	0.6	3
218	1+ Excitations in light nuclei: SU(3) versus realistic shell model results. Nuclear Physics A, 1990, 511, 221-250.	0.6	21
219	On the scissors type mode in 46Ti and lighter nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 196, 409-413.	1.5	24
220	Statistical Reconstruction Methods in PET: Resolution Limit, Noise, Edge Artifacts and considerations for the design of better scanners. , 0, , .		5