José M Udías

List of Publications by Year
in descending order

220 papers	4,009 citations	117571 34 h-index	155592 55 g-index
226 all docs	226 docs citations	226 times ranked	2210 citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic factors inCa40andPb208from (e,eâ€™p): Fully relativistic analysis. Physical Review C, 1993, 48, 2731-2739.	1.1	145
2	Polarization transfer in the 4HeH reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 500, 47-52.	1.5	120
3	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
4	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:m 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
5	Charge and matter distributions and form factors of light, medium, and heavy neutron-rich nuclei. Physical Review C, 2005, 72, .	1.1	96
6	Relativistic versus nonrelativistic optical potentials inA(e,eâ€™p)Breactions. Physical Review C, 1995, 51, 3246-3255.	1.1	94
7	Nuclear model effects in charged-current neutrino-nucleus quasielastic scattering. Physical Review C, 2003, 68, .	1.1	94
8	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 ETQq0 0 0 rgBT /Overlock 10 Tf	2.9	87
9	Relativistic models for quasielastic neutrino scattering. Physical Review C, 2006, 73, .	1.1	86
10	FIRST: Fast Iterative Reconstruction Software for (PET) tomography. Physics in Medicine and Biology, 2006, 51, 4547-4565.	1.6	86
11	Quasielastic Scattering from Relativistic Bound Nucleons: Transverse-Longitudinal Response. Physical Review Letters, 1999, 83, 5451-5454.	2.9	85
12	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
13	Superscaling in Charged Current Neutrino Quasielastic Scattering in the Relativistic Impulse Approximation. Physical Review Letters, 2005, 95, 252502.	2.9	84
14	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
15	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
16	Relativistic analyses of quasielastic neutrino cross sections at MiniBooNE kinematics. Physical Review D, 2011, 84, .	1.6	68
17	Inelastic Î½ and scattering on nuclei and â€œstrangenessâ€•of the nucleon. Nuclear Physics A, 1997, 623, 471-497.	0.6	66
18	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

#	ARTICLE	IF	CITATIONS
19	Parity violation in quasielastic electron scattering from closed-shell nuclei. Nuclear Physics A, 1996, 602, 263-307.	0.6	56
20	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
21	Positron range estimations with PeneloPET. Physics in Medicine and Biology, 2013, 58, 5127-5152.	1.6	56
22	Relativistic mean field approximation to the analysis of $16O(e,eâ€²p)15N$data at $|Q2|<~0.4â€‚(GeV/c)2$. Physical Review C, 2001, 64, .	1.1	52
23	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
24	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
25	Relativistic analysis of the$Pb208(e,Âeâ€²p)Tl207$reaction at high momentum. Physical Review C, 1996, 53, R1488-R1491.	1.1	49
26	Relativistic nuclear structure effects in$(e,eâ€²pâ†')$. Physical Review C, 2000, 62, .	1.1	48
27	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
28	Effective Lagrangian Approach to pion photoproduction from the nucleon. Annals of Physics, 2006, 321, 1408-1456.	1.0	46
29	Final-state interactions and superscaling in the semi-relativistic approach to quasielastic electron and neutrino scattering. Physical Review C, 2007, 75, .	1.1	46
30	Gyral and Sulcal Cortical Thinning in Adolescents with First Episode Early-Onset Psychosis. Biological Psychiatry, 2009, 66, 1047-1054.	0.7	45
31	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
32	Relativistic descriptions of inclusive quasielastic electron scattering: Application to scaling and superscaling ideas. Physical Review C, 2009, 80, .	1.1	37
33	Nuclear effects in electron-nucleus and neutrino-nucleus scattering within a relativistic quantum mechanical framework. Physical Review C, 2019, 100, .	1.1	37
34	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
35	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
36	Superscaling in nuclei: A search for a scaling function beyond the relativistic Fermi gas model. Physical Review C, 2004, 69, .	1.1	33

#	Article	IF	Citations
37	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
38	Superscaling, scaling functions, and nucleon momentum distributions in nuclei. Physical Review C, 2005, 71, .	1.1	32
39	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
40	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
41	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
42	Dynamics of the quasielastic O16(e,eâ€²p)reaction atQ2â‰ˆ0.8(GeVâˆ•c)2. Physical Review C, 2004, 70, .	1.1	30
43	Exchange current corrections to neutrino-nucleus scattering. I. Nuclear matter. Physical Review C, 1995, 52, 3399-3415.	1.1	29
44	Exchange Current Corrections to Neutrino-Nucleus Scattering. Physical Review Letters, 1995, 74, 4993-4996.	2.9	29
45	Nuclear isospin mixing and elastic parity-violating electron scattering. Nuclear Physics A, 2009, 828, 306-332.	0.6	29
46	GPU-Based Fast Iterative Reconstruction of Fully 3-D PET Sinograms. IEEE Transactions on Nuclear Science, 2011, 58, 2257-2263.	1.2	29
47	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
48	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
49	Tissue-Dependent and Spatially-Variant Positron Range Correction in 3D PET. IEEE Transactions on Medical Imaging, 2015, 34, 2394-2403.	5.4	27
50	Constraints in modeling the quasielastic response in inclusive lepton-nucleus scattering. Physical Review C, 2020, 101, .	1.1	27
51	Scaling functions and superscaling in medium and heavy nuclei. Physical Review C, 2006, 73, .	1.1	26
52	Simulation of triple coincidences in PET. Physics in Medicine and Biology, 2015, 60, 117-136.	1.6	26
53	Recovery and normalization of triple coincidences in PET. Medical Physics, 2015, 42, 1398-1410.	1.6	26
54	Scaling function, spectral function, and nucleon momentum distribution in nuclei. Physical Review C, 2011, 83, .	1.1	25

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55	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
56	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
57	Regional specificity of thalamic volume deficits in male adolescents with early-onset psychosis. British Journal of Psychiatry, 2012, 200, 30-36.	1.7	23
58	Relativistic description of final-state interactions in neutral-current neutrino and antineutrino cross sections. Physical Review C, 2013, 88, .	1.1	22
59	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
60	Electron versus Muon Neutrino Induced Cross Sections in Charged Current Quasielastic Processes. Physical Review Letters, 2019, 123, 052501.	2.9	22
61	1+ Excitations in light nuclei: SU(3) versus realistic shell model results. Nuclear Physics A, 1990, 511, 221-250.	0.6	21
62	Properties of nucleon resonances by means of a genetic algorithm. Physical Review C, 2008, 77, .	1.1	21
63	Relativistic descriptions of quasielastic charged-current neutrino-nucleus scattering: Application to scaling and superscaling ideas. Physical Review C, 2011, 83, .	1.1	21
64	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
65	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
66	Biological and Mechanical Synergies to Deal With Proton Therapy Pitfalls: Minibeams, FLASH, Arcs, and Gantryless Rooms. Frontiers in Oncology, 2020, 10, 613669.	1.3	19
67	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
68	Analysis of polarizedO16(eâƒ—,eâ€²pâƒ—)observables within the relativistic distorted wave impulse approximation. Physical Review C, 2004, 69, .	1.1	17
69	Helicity dependence and contribution to the Gerasimov-Drell-Hearn sum rule of theÎ³âƒ—dâƒ—â†’Ï€NNreaction channels in the energy region from threshold up to theÎ”(1232)resonance. Physical Review C, 2007, 76, .	1.1	17
70	Positron range effects in high resolution 3D PET imaging. , 2009, , .		17
71	MultiRBE: Treatment planning for protons with selective radiobiological effectiveness. Medical Physics, 2019, 46, 4276-4284.	1.6	17
72	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

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73	Parity-violating elastic electron scattering and nuclear structure. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 064019.	1.4	16
74	β^- decay of ^{65}Mn to ^{65}Fe. Physical	1.1	16
75	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
76	A(e⃗,e′p⃗)Bresponses: From bare nucleons to complex nuclei. Physical Review C, 2004, 70, .	1.1	15
77	Correlations and the cross section of exclusive (e, e′p) reactions for 16O. Nuclear Physics A, 1997, 625, 633-650.	0.6	13
78	Hints on the quadrupole deformation of the Δ(1232). Physical Review C, 2006, 73, .	1.1	13
79	Performance evaluation of SiPM detectors for PET imaging in the presence of magnetic fields. , 2008, , .		13
80	Superscaling analysis of the Coulomb sum rule in quasielastic electron–nucleus scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 250-257.	1.5	12
81	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
82	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
83	Multi-modal Ultrasound Imaging for Breast Cancer Detection. Physics Procedia, 2015, 63, 134-140.	1.2	12
84	Evaluation of PeneloPET Simulations of Biograph PET/CT Scanners. IEEE Transactions on Nuclear Science, 2016, 63, 1367-1374.	1.2	12
85	Speed of sound ultrasound transmission tomography image reconstruction based on Bézier curves. Ultrasonics, 2020, 103, 106097.	2.1	12
86	Dictionary-based protoacoustic dose map imaging for proton range verification. Photoacoustics, 2021, 21, 100240.	4.4	12
87	Superscaling Predictions for Neutral Current Quasielastic Neutrino-Nucleus Scattering. Physical Review Letters, 2008, 100, 052502.	2.9	11
88	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
89	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, 2008, 660, 188-192.	1.5	10
90	Final-state interactions in the superscaling analysis of neutral-current quasielastic neutrino scattering. Physical Review C, 2008, 77, .	1.1	10

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91	Meson-exchange currents and final-state interactions in quasielastic electron scattering at high momentum transfers. Physical Review C, 2010, 81, .	1.1	10
92	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
93	Detailed spectroscopy of doubly magic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Sn</mml:mi><mml:mprescripts /><mml:none /><mml:mn>132</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2020, 102, .	1.1	10
94	Neutrino energy reconstruction from semi-inclusive samples. Physical Review C, 2022, 105, .	1.1	10
95	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
96	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
97	Improved quantification for local regions of interest in preclinical PET imaging. Physics in Medicine and Biology, 2015, 60, 7127-7149.	1.6	9
98	Nuclear astrophysics with radioactive ions at FAIR. Journal of Physics: Conference Series, 2016, 665, 012044.	0.3	9
99	Global relativistic folding optical potential and the relativistic Green's function model. Physical Review C, 2016, 94, .	1.1	9
100	Î² decay of In133 : Î³ emission from neutron-unbound states in Sn133. Physical Review C, 2019, 99, .	1.1	9
101	Benchmarking intranuclear cascade models for neutrino scattering with relativistic optical potentials. Physical Review C, 2022, 105, .	1.1	9
102	Probing deformed orbitals with A(e, eâ€² N)B reactions. Nuclear Physics A, 1995, 584, 256-278.	0.6	8
103	PeneloPET, a Monte Carlo PET simulation toolkit based on PENELOPE: Features and Validation. , 2006, , .		8
104	Gamow-Teller strength distributions in Xe isotopes. Physical Review C, 2006, 74, .	1.1	8
105	Frequency selective signal extrapolation for compensation of missing data in sinograms. , 2008, , .		8
106	GPU acceleration of a fully 3D Iterative Reconstruction Software for PET using CUDA. , 2009, , .		8
107	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
108	Phase space determination from measured dose data for intraoperative electron radiation therapy. Physics in Medicine and Biology, 2015, 60, 375-401.	1.6	8

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109	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
110	Efficiency measurement and Monte Carlo simulations of a CeBr 3 scintillator. Applied Radiation and Isotopes, 2017, 120, 71-75.	0.7	8
111	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
112	Improved image reconstruction in small animal PET using a priori estimates of single-pixel events. , 2007, , .		7
113	Improved dead-time correction for PET scanners: application to small-animal PET. Physics in Medicine and Biology, 2013, 58, 2059-2072.	1.6	7
114	Neutral current quasielastic (anti)neutrino scattering beyond the Fermi gas model at MiniBooNE and BNL kinematics. Physical Review C, 2015, 91, .	1.1	7
115	Performance evaluation for ^{68}Ga and ^{18}F of the ARGUS small-animal PET scanner based on the NEMA NU-4 standard. , 2010, , .		6
116	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
117	Ultrasound computed tomography for quantitative breast imaging. , 2016, , .		6
118	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
119	Real-Time 3D PET Image with Pseudoinverse Reconstruction. Applied Sciences (Switzerland), 2020, 10, 2829.	1.3	6
120	Dictionary-based software for proton dose reconstruction and submilimetric range verification. Physics in Medicine and Biology, 2022, 67, 045002.	1.6	6
121	Statistical Reconstruction Methods in PET: Resolution Limit, Noise, Edge Artifacts and considerations for the design of better scanners. , 0, , .		5
122	Neutron densities from parity-violating elastic electron scattering. Journal of Physics: Conference Series, 2011, 312, 092044.	0.3	5
123	Automatic Cardiac Self-Gating of Small-Animal PET Data. Molecular Imaging and Biology, 2016, 18, 109-116.	1.3	5
124	Beta decay of ^{66}Mn to the N = 40 nucleus ^{66}Fe. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 125103.	1.4	5
125	SiPM-based PET detector module for a 4π span scanner. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 18-21.	0.7	5
126	Direct proton range verification using oxygen-18 enriched water as a contrast agent. Radiation Physics and Chemistry, 2021, 182, 109385.	1.4	5

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127	USCT reference data base: conclusions from the first SPIE USCT data challenge and future directions. , 2018, , .		5
128	First <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> -decay spectroscopy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>In</mml:mi><mml:mprescripts /><mml:none /><mml:mn>135</mml:mn></mml:mmultiscripts></mml:math> and new <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> -decay branches of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>In</	1.1	5
129	Spin Dependent Momentum Distributions in Deformed Nuclei. Annals of Physics, 1995, 239, 351-375.	1.0	4
130	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
131	Validation of PeneloPET against two small animal PET scanners. , 2007, , .		4
132	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
133	Validation of PeneloPET positron range estimations. , 2010, , .		4
134	Design of DOI PET detector modules using phoswich and SiPMs: First results. , 2011, , .		4
135	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
136	Full-wave attenuation reconstruction in the time domain for ultrasound computed tomography. , 2016, , .		4
137	Photoacoustic dose monitoring in clinical high-energy photon beams. Biomedical Physics and Engineering Express, 2019, 5, 035028.	0.6	4
138	Super-Iterative Image Reconstruction in PET. IEEE Transactions on Computational Imaging, 2021, 7, 248-257.	2.6	4
139	Radiochromic film dosimetry for protons up to 10 MeV with EBT2, EBT3 and unlaminated EBT3 films. Physics in Medicine and Biology, 2021, 66, 115006.	1.6	4
140	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
141	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
142	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
143	Nuclear Transparencies in Relativistic Models. Nuclear Physics A, 2005, 755, 511-514.	0.6	3
144	Spin asymmetry for the 16O(<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 8] reaction in the <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	1.5	3

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145	Relativistic models for electron and neutrino-nucleus scattering. , 2009, , .		3
146	Relativistic Description of 3He (e, eâ€² p)2H. Few-Body Systems, 2011, 50, 359-362.	0.7	3
147	Assessment of new photosensors for fast timing applications with large scintillator detectors. , 2011, , .		3
148	PeneloPET simulations of the Biograph ToF clinical PET scanner. , 2011, , .		3
149	Regularization of image reconstruction in ultrasound computed tomography. , 2015, , .		3
150	Simulation, development and testing of a PET detector prototype using monolithic scintillator crystals treated with the sub-surface engraving technique. , 2015, , .		3
151	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
152	Data-driven Improved Sampling in PET. , 2017, , .		3
153	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
154	Charged-current quasielastic (anti)neutrino cross sections on 12C with realistic spectral functions including meson-exchange contributions. AIP Conference Proceedings, 2019, , .	0.3	3
155	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
156	PeneloPET v3.0, an improved multiplatform PET Simulator. , 2019, , .		3
157	Fast Timing Study of the β^- Decay of ^{63}Mn to ^{63}Fe. , 2015, , .		3
158	XIORTâ€MC: A realâ€time MCâ€based dose computation tool for lowâ€energy Xâ€rays intraoperative radiation therapy. Medical Physics, 2021, 48, 8089-8106.	1.6	3
159	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
160	Role of relativity in electron scattering: kinematical versus dynamical effects. Nuclear Physics A, 2001, 689, 449-452.	0.6	2
161	Optimal and Robust PET Data Sinogram Restoration Based on the Response of the System. , 2006, , .		2
162	Effects of the Super Bialkali photocathode on the performance characteristics of a position-sensitive depth-of-interaction PET detector module. , 2008, , .		2

#	Article	IF	Citations
163	Neutrino Interactions Importance to Nuclear Physics. AIP Conference Proceedings, 2009, , .	0.3	2
164	Monte Carlo based dose estimation in intraoperative radiotherapy. , 2010, , .		2
165	Relativistic models for quasi-elastic neutrino-nucleus scattering. , 2012, , .		2
166	Simulations, testing and results for the pixelation of LYSO crystals for gamma detectors using SSLE techniques. , 2014, , .		2
167	Digital processing of scintillator signals for fast timing applications. , 2015, , .		2
168	Refraction correction in Full Angle Spatial image Compounding. , 2016, , .		2
169	Personal dosimetry geolocalized system for radiation monitoring. , 2016, , .		2
170	Abstract ID: 83 Hybrid Monte Carlo for low-energy X-rays intraoperative radiation therapy dose calculation. Physica Medica, 2017, 42, 17.	0.4	2
171	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
172	Final state interaction effects in neutrino-nucleus quasielastic scattering. Nuclear Physics, Section B, Proceedings Supplements, 2005, 139, 226-229.	0.5	1
173	Normalization in 3D PET: Dependence on the Activity Distribution of the Source. , 2006, , .		1
174	Superscaling analyses of inclusive electron scattering and their extension to charge-changing neutrino cross sections in nuclei. AIP Conference Proceedings, 2007, , .	0.3	1
175	Revised consistency conditions for PET data. , 2007, , .		1
176	Pion production off the deuteron with real photons including polarization observables. AIP Conference Proceedings, 2008, , .	0.3	1
177	Nuclear effects in electron reactions and their impact on neutrino processes. , 2009, , .		1
178	Overview of neutrino-nucleus quasielastic scattering. , 2009, , .		1
179	Validation of NEMA NU4&#x2013;2008 scatter fraction estimation with <sup>18</sup>F and <sup>68</sup>Ga for the ARGUS smallanimal PET scanner. , 2010, , .		1
180	Quantification limits of iterative PET reconstruction algorithms and improved estimation of kinetic constants. , 2011, , .		1

#	Article	IF	Citations
181	Deadtime and pile-up correction method based on the singles to coincidences ratio for PET. , 2011, , .		1
182	Measurement of activity produced by low energy proton beam in metals using off-line PET imaging. , 2011, , .		1
183	A general framework to study positron range distributions. , 2011, , .		1
184	Iterative reconstruction of whole accelerator phase spaces for Intraoperative Radiation Therapy (IORT) from measured dose data. , 2011, , .		1
185	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
186	Evaluation of inorganic scintillators for high performance ToF PET applications. , 2015, , .		1
187	Super-iterative image reconstruction in PET. , 2019, , .		1
188	Awake preclinical brain PET imaging based on point sources. , 2019, , .		1
189	Application of the pseudoinverse for real-time 3D PET image reconstruction. , 2019, , .		1
190	Effects of relativistic optical potentials in (e,e′p). Progress in Particle and Nuclear Physics, 1995, 34, 381-382.	5.6	0
191	Influence of random, pile-up and scatter corrections in the quantification properties of small-animal PET scanners. , 2007, , .		0
192	Nonlinear effect of pile-up in the quantification of a small animal PET scanner. , 2008, , .		0
193	(e, e′p) reaction at true quasielastic kinematics in [sup 16]O, [sup 12]C and [sup 208]Pb at JLab. , 2010, , .		0
194	Performance Evaluation of SiPM Photosensors in the Presence of Magnetic Fields. AIP Conference Proceedings, 2010, , .	0.3	0
195	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
196	Scaling ideas in neutrino scattering reactions: application to the MiniBooNE experiment. Journal of Physics: Conference Series, 2012, 366, 012006.	0.3	0
197	Production of positron-gamma emitters for multiplexed PET (mPET) imaging. , 2013, , .		0
198	Simulation of triple coincidences in PET. , 2013, , .		0

#	Article	IF	Citations
199	Î²â˘-decay of [sup 65]Mn to [sup 65]Fe. , 2013, , .		0
200	Time resolution of a 1-inch cylindrical CeBr[sub 3] crystal at [sup 60]Co energies. , 2013, , .		0
201	Structure of [sup 81]Ga populated from the Î²â˘ decay of [sup 81]Zn. , 2013, , .		0
202	Scaling of positron range distributions in biological materials. , 2013, , .		0
203	PeneloPET study of the biograph PET scanner. , 2013, , .		0
204	Performance evaluation of LaBr<inf>3</inf>(Ce) crystal geometries designed for fast timing applications. , 2015, , .		0
205	Superscaling in electron-nucleus scattering and its link to CC and NC QE neutrino-nucleus scattering. AIP Conference Proceedings, 2015, , .	0.3	0
206	Charged-current inclusive neutrino cross sections in the SuperScaling model. AIP Conference Proceedings, 2016, , .	0.3	0
207	Charged-current inclusive neutrino cross sections in the SuperScaling model. Journal of Physics: Conference Series, 2016, 724, 012020.	0.3	0
208	Non contact elastographic techniques. , 2016, , .		0
209	Digital strategies for time and energy measurement for ultra fast scintillators. , 2016, , .		0
210	Improved misfit function for attenuation and speed reconstruction in ultrasound computed tomography. , 2017, , .		0
211	Time over Threshold Data Acquisition System for PET. , 2017, , .		0
212	Real-Time Accurate Rebinning of PET Data Based on the Pseudo-Inverse of the Axial System Matrix. , 2017, , .		0
213	Optimizing Time-Pickup Algorithms in Radiation Detectors with a Genetic Algorithm. , 2017, , .		0
214	Nuclear effects in (anti)neutrino charge-current quasielastic scattering at MINER Î½A kinematics. Journal of Physics: Conference Series, 2018, 1023, 012028.	0.3	0
215	EP-1772: Dose variability with breast tissue assignation for the INTRABEAM device. Radiotherapy and Oncology, 2018, 127, S950-S951.	0.3	0
216	New Aspects of Nuclear Structure and QE Electron Scattering. , 2001, , 221-232.		0

#	Article	IF	Citations
217	Iterative Algorithm for Optimal Super Resolution Sampling. Springer Proceedings in Physics, 2019, , 141-143.	0.1	0
218	Dynamic PET imaging with the generalized method of moments. , 2019, , .		0
219	Analysis of the quadrupole deformation of â—³(1232) within an effective Lagrangian model for pion photoproduction from the nucleon. , 2007, , 219-221.		0
220	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		