Jose Enrique Amaro

List of Publications by Year
in descending order

127 papers	3,506 citations	126907 33 h-index	161849 54 g-index
135 all docs	135 docs citations	135 times ranked	1000 citing authors

#	Article	IF	Citations
1	Inclusive quasielastic charged-current neutrino-nucleus reactions. Physical Review C, 2004, 70, .	2.9	196
2	Using electron scattering superscaling to predict charge-changing neutrino cross sections in nuclei. Physical Review C, 2005, 71, .	2.9	153
3	Minimally nonlocal nucleon-nucleon potentials with chiral two-pion exchange including<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î”</mml:mi></mml:math>resonances. Physical Review C, 2015, 91, .	2.9	152
4	Meson-exchange currents and quasielastic neutrino cross sections in the superscaling approximation model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 696, 151-155.	4.1	112
5	Coarse-grained potential analysis of neutron-proton and proton-proton scattering below the pion production threshold. Physical Review C, 2013, 88, .	2.9	103
6	Charged-current neutrino-nucleus reactions within the superscaling meson-exchange current approach. Physical Review D, 2016, 94, .	4.7	88
7	Quasielastic Scattering from Relativistic Bound Nucleons: Transverse-Longitudinal Response. Physical Review Letters, 1999, 83, 5451-5454.	7.8	85
8	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.	1.6	85
9	Superscaling in Charged Current Neutrino Quasielastic Scattering in the Relativistic Impulse Approximation. Physical Review Letters, 2005, 95, 252502.	7.8	84
10	Meson-Exchange Currents and Quasielastic Antineutrino Cross Sections in the Superscaling Approximation. Physical Review Letters, 2012, 108, 152501.	7.8	73
11	Gauge and Lorentz invariant one-pion exchange currents in electron scattering from a relativistic Fermi gas. Physics Reports, 2002, 368, 317-407.	25.6	69
12	Relativistic analyses of quasielastic neutrino cross sections at MiniBooNE kinematics. Physical Review D, 2011, 84, .	4.7	68
13	Semirelativistic description of quasielastic neutrino reactions and superscaling in a continuum shell model. Physical Review C, 2005, 71, .	2.9	64
14	Meson-exchange currents and quasielastic predictions for charged-current neutrino-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">C</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>scattering in the superscaling approach. Physical Review D, 2015, 91, .	4.7	64
15	Statistical error analysis for phenomenological nucleon-nucleon potentials. Physical Review C, 2014, 89, .	2.9	63
16	Inclusive electron scattering within the SuSAv2 meson-exchange current approach. Physical Review D, 2016, 94, .	4.7	61
17	Meson-exchange currents in quasi-elastic electron scattering from 12C and 40Ca nuclei. Nuclear Physics A, 1994, 578, 365-396.	1.5	58
18	Parity violation in quasielastic electron scattering from closed-shell nuclei. Nuclear Physics A, 1996, 602, 263-307.	1.5	56

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19	Partial-wave analysis of nucleon-nucleon scattering below the pion-production threshold. Physical Review C, 2013, 88, .	2.9	55
20	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.	4.1	52
21	Relativistic model of 2p-2h meson exchange currents in (anti)neutrino scattering. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 065105.	3.6	48
22	Electromagnetic Quasi-Elastic Responses in 12C. Annals of Physics, 1993, 221, 306-340.	2.8	47
23	Charmed and bottom baryons: a variational approach based on heavy quark symmetry. Nuclear Physics A, 2004, 740, 333-361.	1.5	47
24	Final-state interactions and superscaling in the semi-relativistic approach to quasielastic electron and neutrino scattering. Physical Review C, 2007, 75, .	2.9	46
25	Superscaling and neutral current quasielastic neutrino-nucleus scattering. Physical Review C, 2006, 73, .	2.9	45
26	Theoretical study of neutrino-induced coherent pion production off nuclei at T2K and MiniBooNE energies. Physical Review D, 2009, 79, .	4.7	45
27	Coarse-grainedNNpotential with chiral two-pion exchange. Physical Review C, 2014, 89, .	2.9	42
28	Pionic correlations and meson-exchange currents in two-particle emission induced by electron scattering. Physical Review C, 2010, 82, .	2.9	38
29	Global analysis of the COVID-19 pandemic using simple epidemiological models. Applied Mathematical Modelling, 2021, 90, 995-1008.	4.2	36
30	Bootstrapping the statistical uncertainties of NN scattering data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 155-159.	4.1	35
31	Delta-isobar relativistic meson exchange currents in quasielastic electron scattering. Nuclear Physics A, 2003, 723, 181-204.	1.5	34
32	Relativistic effects in electromagnetic meson-exchange currents for one-particle emission reactions. Nuclear Physics A, 1998, 643, 349-382.	1.5	33
33	Electron- versus neutrino-nucleus scattering. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 124001.	3.6	33
34	Superscaling of non-quasielastic electron-nucleus scattering. Physical Review C, 2009, 80, .	2.9	32
35	Neutrino and antineutrino CCQE scattering in the SuperScaling Approximation from MiniBooNE to NOMAD energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 170-174.	4.1	32
36	Inclusive quasielastic scattering of polarized electrons from polarized nuclei. Nuclear Physics A, 1996, 611, 163-210.	1.5	31

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37	Theoretical uncertainties on quasielastic charged-current neutrinoâ€“nucleus cross sections. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 638, 325-332.	4.1	31
38	Relativistic effects in two-particle emission for electron and neutrino reactions. Physical Review D, 2014, 90, .	4.7	30
39	Precise determination of charge-dependent pion-nucleon-nucleon coupling constants. Physical Review C, 2017, 95, .	2.9	30
40	Quasielastic Charged-Current Neutrino-Nucleus Scattering. Physical Review Letters, 2007, 98, 242501.	7.8	29
41	NN Scattering and Nuclear Uncertainties. Frontiers in Physics, 2020, 8, .	2.1	29
42	Neutrinoâ€“oxygen CC0Ï€ scattering in the SuSAv2-MEC model. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 015104.	3.6	28
43	Low-energy chiral two-pion exchange potential with statistical uncertainties. Physical Review C, 2015, 91, .	2.9	27
44	Emission of neutronâ€“proton and protonâ€“proton pairs in neutrino scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 124-130.	4.1	25
45	Axial-vector dominance predictions in quasielastic neutrino-nucleus scattering. Physical Review D, 2016, 93, .	4.7	25
46	Relativistic pionic effects in quasielastic electron scattering. Nuclear Physics A, 2002, 697, 388-428.	1.5	24
47	FINITE SIZE EFFECTS IN THE ELECTROMAGNETIC QUASI-ELASTIC RESPONSES OF NUCLEI. International Journal of Modern Physics E, 1994, 03, 735-755.	1.0	23
48	Relativistic effects in electromagnetic nuclear responses in the quasi-elastic delta region. Nuclear Physics A, 1999, 657, 161-186.	1.5	23
49	Coarse graining nuclear interactions. Progress in Particle and Nuclear Physics, 2012, 67, 359-364.	14.4	23
50	Error analysis of nuclear forces and effective interactions. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 034013.	3.6	23
51	What Does the Free Spaceî›îInteraction Predict forî›îHypernuclei?. Physical Review Letters, 2002, 89, 032501.	7.8	22
52	Phenomenological high precision neutronâ€“proton delta-shell potential. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 138-143.	4.1	21
53	The low-energy structure of the nucleonâ€“nucleon interaction: statistical versus systematic uncertainties. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 114001.	3.6	20
54	Meson-exchange current effects in the magnetic electroexcitation of 48CA. Nuclear Physics A, 1992, 537, 585-605.	1.5	18

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55	Spin Observables in Coincidence Electron Scattering from Nuclei. Annals of Physics, 1998, 263, 56-118.	2.8	17
56	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, .	2.9	17
57	Radiative pion capture in nuclei: a continuum shell-model approach. Nuclear Physics A, 1997, 623, 529-547.	1.5	16
58	Effective Interactions in the Delta-Shells Potential. Few-Body Systems, 2013, 54, 1487-1490.	1.5	16
59	Angular distribution in two-particle emission induced by neutrinos and electrons. Physical Review D, 2014, 90, .	4.7	16
60	Triton binding energy with realistic statistical uncertainties. Physical Review C, 2014, 90, .	2.9	16
61	Meson exchange currents in the quasi-elastic response of 12C. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 277, 249-255.	4.1	15
62	Analysis of meson exchange and isobar currents in(e,eâ€²p)reactions from16O. Physical Review C, 1999, 60, .	2.9	15
63	Semirelativistic meson-exchange currents in(e,eâ€²)and(e,eâ€²p)reactions. Physical Review C, 2003, 68, .	2.9	15
64	Nuclear effects on lepton polarization in charged-current quasielastic neutrino scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 642, 218-226.	4.1	15
65	Scaling violation and relativistic effective mass from quasi-elastic electron scattering: Implications for neutrino reactions. Physical Review C, 2015, 92, .	2.9	15
66	Uncertainty quantification of effective nuclear interactions. International Journal of Modern Physics E, 2016, 25, 1641009.	1.0	15
67	Density dependence of 2p-2h meson-exchange currents. Physical Review C, 2017, 95, .	2.9	15
68	The frozen nucleon approximation in two-particle two-hole response functions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 193-199.	4.1	15
69	Model of short-range correlations in the charge response. Physical Review C, 1998, 57, 3473-3475.	2.9	14
70	Effects of short-range correlations in(e,eâ€²p)reactions and nuclear overlap functions. Physical Review C, 2002, 65, .	2.9	14
71	Statistical error propagation inab initiono-core full configuration calculations of light nuclei. Physical Review C, 2015, 92, .	2.9	13
72	Quasielastic charged-current neutrino scattering in the scaling model with relativistic effective mass. Physical Review D, 2018, 97, .	4.7	13

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73	Error Analysis of Nuclear Matrix Elements. Few-Body Systems, 2014, 55, 977-981.	1.5	12
74	Neutrino-nucleus scattering in the SuSA model. European Physical Journal: Special Topics, 2021, 230, 4321-4338.	2.6	12
75	Meson-exchange current effects in inelastic electron scattering from polarized nuclei. Nuclear Physics A, 1994, 576, 553-580.	1.5	11
76	Meson-exchange current effects in elastic electron scattering from polarized nuclei. Nuclear Physics A, 1994, 567, 701-733.	1.5	11
77	Equivalence between local Fermi gas and shell models in inclusive muon capture from nuclei. European Physical Journal A, 2005, 24, 343-353.	2.5	11
78	Partial Wave Analysis of Chiral NN Interactions. Few-Body Systems, 2014, 55, 983-987.	1.5	11
79	Superscaling analysis of quasielastic electron scattering with relativistic effective mass. Physical Review D, 2017, 95, .	4.7	11
80	Meson-exchange currents and superscaling analysis with relativistic effective mass of quasielastic electron scattering from <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, 2021, 104, .	2.9	11
81	Final-state interactions in (e, eâ€²p) reactions with polarized nuclei. Nuclear Physics A, 1999, 646, 187-208.	1.5	10
82	Meson-exchange currents and final-state interactions in quasielastic electron scattering at high momentum transfers. Physical Review C, 2010, 81, .	2.9	10
83	Three pion nucleon coupling constants. Modern Physics Letters A, 2016, 31, 1630027.	1.2	10
84	Fermi-momentum dependence of relativistic effective mass below saturation from superscaling of quasielastic electron scattering. Physical Review C, 2017, 96, .	2.9	10
85	Two-nucleon emission in neutrino and electron scattering from nuclei: The modified convolution approximation. Annals of Physics, 2018, 388, 323-349.	2.8	10
86	Global superscaling analysis of quasielastic electron scattering with relativistic effective mass. Physical Review C, 2018, 98, .	2.9	10
87	Pionic decay of Î› hypernuclei in a continuum shell model. Physical Review C, 2003, 67, .	2.9	9
88	Emission of neutron-proton and proton-proton pairs in electron scattering induced by meson-exchange currents. Physical Review C, 2016, 94, .	2.9	9
89	Semiempirical formula for electroweak response functions in the two-nucleon emission channel in neutrino-nucleus scattering. Physical Review D, 2021, 104, .	4.7	9
90	Meson-exchange currents in(e,eâ€²p)recoil polarization observables. Physical Review C, 2003, 68, .	2.9	8

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91	Superscaling and Charge-changing Neutrino Cross Sections. Nuclear Physics, Section B, Proceedings Supplements, 2006, 155, 257-259.	0.4	8
92	On the quenching of the (e, eâ€²) form factor of the M1 transition to the 10.23 MeV state in 48Ca. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 261, 229-234.	4.1	7
93	Coarse-grained short-range correlations. Physical Review C, 2017, 95, .	2.9	7
94	Low energy peripheral scaling in nucleonâ€“nucleon scattering and uncertainty quantification. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 035107.	3.6	7
95	Electron helicity-dependence in (e,eâ€²p) reactions with polarized nuclei and the fifth response function. Nuclear Physics A, 2002, 703, 541-570.	1.5	5
96	Induced nucleon polarization and meson-exchange currents in(e,eâ€²p)reactions. Physical Review C, 2004, 69, .	2.9	5
97	A Heavy Quark Symmetry Approach to Baryons. Nuclear Physics A, 2005, 755, 439-442.	1.5	5
98	Binding in light nuclei: Statistical NN uncertainties vs Computational accuracy. Journal of Physics: Conference Series, 2016, 742, 012001.	0.4	5
99	Coarse graining the Betheâ€“Goldstone equation: Nucleonâ€“nucleon high-momentum components. Physical Review C, 2017, 96, .	2.9	5
100	Continuity equation in electron scattering from nuclei. Physical Review C, 1996, 53, 1430-1433.	2.9	4
101	Nuclear Many-Body Theory of Electroweak Interactions with Nuclei at Intermediate Energies. Nuclear Physics, Section B, Proceedings Supplements, 2005, 139, 195-200.	0.4	4
102	The falsification of Chiral Nuclear Forces. EPJ Web of Conferences, 2017, 137, 09006.	0.3	4
103	Monte Carlo simulation of COVID-19 pandemic using Planckâ€™s probability distribution. BioSystems, 2022, 218, 104708.	2.0	4
104	Electroexcitation of magnetic states in48Ca. Journal of Physics G: Nuclear and Particle Physics, 1993, 19, 99-112.	3.6	3
105	Nuclear currents based on the integral form of the continuity equation. Physical Review C, 1999, 60, .	2.9	3
106	Charged-current quasielastic (anti)neutrino cross sections on 12C with realistic spectral functions including meson-exchange contributions. AIP Conference Proceedings, 2019, , .	0.4	3
107	Role of relativity in electron scattering: kinematical versus dynamical effects. Nuclear Physics A, 2001, 689, 449-452.	1.5	2
108	Charm- and Bottom- Baryons: A Variational Approach Using Heavy Quark Symmetry. AIP Conference Proceedings, 2004, , .	0.4	2

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109	Final-state interaction and recoil polarization in reactions: comparison with the polarized target case. Nuclear Physics A, 2005, 753, 189-205.	1.5	2
110	Neutrino Interactions Importance to Nuclear Physics. AIP Conference Proceedings, 2009, , .	0.4	2
111	Relativistic models for quasi-elastic neutrino-nucleus scattering. , 2012, , .		2
112	Nuclear Binding Energies and NN uncertainties. , 2012, , .		2
113	Nucleon-Nucleon Chiral Two Pion Exchange potential vs Coarse grained interactions. , 2013, , .		2
114	Momentum distribution of relativistic nuclei with Hartree-Fock mesonic correlations. European Physical Journal A, 2002, 15, 421-427.	2.5	1
115	Quasi-elastic neutrino-nucleus reactions. European Physical Journal D, 2006, 56, 527-534.	0.4	1
116	Nuclear effects in electron reactions and their impact on neutrino processes. , 2009, , .		1
117	Neutrino induced weak pion production off the nucleon and coherent pion production in nuclei at low energies. , 2009, , .		1
118	Skewed recoil polarization in (e,eâ€²p) reactions from polarized nuclei. Annals of Physics, 2005, 319, 123-149.	2.8	0
119	Neutrino Interaction Calculations from MeV to GeV Region. AIP Conference Proceedings, 2008, , .	0.4	0
120	Nucleon Emission off Nuclei Induced by Neutrino Interactions. , 2010, , .		0
121	COHERENT PIONS FROM NEUTRINO SCATTERING OFF NUCLEI. , 2010, , .		0
122	Heavy Quark Spin Symmetry and Heavy Baryons: Electroweak Decays. Few-Body Systems, 2011, 50, 113-119.	1.5	0
123	Superscaling predictions for NC and CC quasi-elastic neutrino-nucleus scattering. , 2011, , .		0
124	Scaling ideas in neutrino scattering reactions: application to the MiniBooNE experiment. Journal of Physics: Conference Series, 2012, 366, 012006.	0.4	0
125	Superscaling in electron-nucleus scattering and its link to CC and NC QE neutrino-nucleus scattering. AIP Conference Proceedings, 2015, , .	0.4	0
126	The Falsification of Nuclear Forces. EPJ Web of Conferences, 2016, 113, 04021.	0.3	0

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127	Analysis of the kinematic boundaries of the quasielastic neutrino-nucleus cross section in the superscaling model with a relativistic effective mass. Physical Review D, 2022, 105, .	4.7	0