

# Marco Martini

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

2,402  
citations

218677

26  
h-index

197818

49  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1289  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unified approach for nucleon knock-out and coherent and incoherent pion production in neutrino interactions with nuclei. Physical Review C, 2009, 80, .	2.9	289
2	NuSTEC White Paper: Status and challenges of neutrino-nucleus scattering. Progress in Particle and Nuclear Physics, 2018, 100, 1-68.	14.4	206
3	Neutrino and antineutrino quasielastic interactions with nuclei. Physical Review C, 2010, 81, .	2.9	191
4	Neutrino quasielastic interaction and nuclear dynamics. Physical Review C, 2011, 84, .	2.9	128
5	Neutrino-nucleus cross sections for oscillation experiments. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 013001.	3.6	109
6	Neutrino energy reconstruction problems and neutrino oscillations. Physical Review D, 2012, 85, .	4.7	96
7	Mean field based calculations with the Gogny force: Some theoretical tools to explore the nuclear structure. European Physical Journal A, 2014, 50, 1.	2.5	78
8	Photoneutron cross sections for Mo isotopes: A step toward a unified understanding of $\int_0^{\infty} \sigma_{\text{phn}}(E) dE$	2.9	76
9	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
10	Large-scale deformed quasiparticle random-phase approximation calculations of the $\int_0^{\infty} \sigma_{\text{phn}}(E) dE$ -ray strength function using the Gogny force. Physical Review C, 2016, 94, .	2.9	71
11	Quasielastic and multinucleon excitations in antineutrino-nucleus interactions. Physical Review C, 2013, 87, .	2.9	70
12	Energy reconstruction effects in neutrino oscillation experiments and implications for the analysis. Physical Review D, 2013, 87, .	4.7	68
13	Giant resonances in $\int_0^{\infty} \sigma_{\text{phn}}(E) dE$ within the quasiparticle random-phase approximation with the Gogny force. Physical Review C, 2011, 83, .	2.9	65
14	Electron-neutrino scattering off nuclei from two different theoretical perspectives. Physical Review C, 2016, 94, .	2.9	54
15	Gamow-Teller strength in deformed nuclei within the self-consistent charge-exchange quasiparticle random-phase approximation with the Gogny force. Physical Review C, 2014, 89, .	2.9	50
16	Low-energy dipole excitations in neon isotopes and $\int_0^{\infty} \sigma_{\text{phn}}(E) dE$ isotone within the quasiparticle random-phase approximation and the Gogny force. Physical Review C, 2011, 83, .	2.9	47
17	Gogny-Hartree-Fock-Bogolyubov plus quasiparticle random-phase approximation predictions of the $\int_0^{\infty} \sigma_{\text{phn}}(E) dE$ function and its impact on radiative neutron capture cross section. Physical Review C, 2016, 94, .	2.9	45
18	Photoneutron cross sections for samarium isotopes: Toward a unified understanding of $\int_0^{\infty} \sigma_{\text{phn}}(E) dE$ in the rare earth region. Physical Review C, 2014, 90, .	2.9	44

#	ARTICLE	IF	CITATIONS
19	Nuclear response for the Skyrme effective interaction with zero-range tensor terms. Physical Review C, 2009, 80, .	2.9	43
20	Discovery of a new isomeric state in $^{68}\text{Ni}$ : Evidence for a highly deformed proton intruder state. Physical Review C, 2012, 85, .	2.9	43
21	Influence of short-range correlations in neutrino-nucleus scattering. Physical Review C, 2016, 94, .	2.9	43
22	Impact of low-energy nuclear excitations on neutrino-nucleus scattering at MiniBooNE and T2K kinematics. Physical Review C, 2016, 94, .	2.9	41
23	Revisiting the T2K data using different models for the neutrino-nucleus cross sections. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 186-192.	4.1	40
24	Nuclear response for the Skyrme effective interaction with zero-range tensor terms. II. Sum rules and instabilities. Physical Review C, 2012, 85, .	2.9	35
25	Photoneutron cross sections for neodymium isotopes: Toward a unified understanding of $^{147}\text{Nd}$ and $^{148}\text{Nd}$ in the rare earth region. Physical Review C, 2015, 91, .	2.9	34
26	Inclusive and pion production neutrino-nucleus cross sections. Physical Review C, 2014, 90, .	2.9	27
27	Nuclear response for the Skyrme effective interaction with zero-range tensor terms. III. Neutron matter and neutrino propagation. Physical Review C, 2012, 86, .	2.9	25
28	$E_{\text{eff}}$ and $M_{\text{eff}}$ strength functions from average resonance capture data. Physical Review C, 2017, 95, .	2.9	25
29	Superscaling in electroweak excitation of nuclei. Physical Review C, 2007, 75, .	2.9	22
30	Neutron-driven collectivity in light tin isotopes: Proton inelastic scattering from $^{104}\text{Sn}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 451-455.	4.1	22
31	Neutrino versus antineutrino cross sections and $CP$ violation. Physical Review C, 2015, 91, .	2.9	18
32	Linear response theory and neutrino mean free path using Brussels-Montreal Skyrme functionals. Physical Review C, 2014, 90, .	2.9	17
33	Assessing the role of nuclear effects in the interpretation of the MiniBooNE low-energy anomaly. Physical Review D, 2016, 93, .	4.7	16
34	Electromagnetic dipole and Gamow-Teller responses of even and odd $^{90-94}\text{Zr}$ isotopes in QRPA calculations with the D1M Gogny force. European Physical Journal A, 2017, 53, 1.	2.5	16
35	Unexpected high-energy $^3\text{He}$ emission from decaying exotic nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 359-362.	4.1	15
36	Spontaneous symmetry breaking and response functions. Annals of Physics, 2005, 317, 444-473.	2.8	13

#	ARTICLE	IF	CITATIONS
37	Two-pion production processes, chiral symmetry and NN interaction in the medium. European Physical Journal A, 2006, 27, 191-198.	2.5	13
38	Description of magnetic moments within the Gogny Hartree-Fock-Bogolyubov framework: Application to Hg isotopes. Physical Review C, 2021, 104, .	2.9	12
39	Mean field at finite temperature and symmetry breaking. Annals of Physics, 2004, 311, 81-119.	2.8	11
40	Spurious finite-size instabilities with Gogny-type interactions. European Physical Journal A, 2019, 55, 1.	2.5	11
41	Mean-field approach to reconstructed neutrino energy distributions in accelerator-based experiments. Physical Review C, 2018, 98, .	2.9	10
42	A New Generation of Neutrino Cross Section Experiments: Challenges and Opportunities. Symmetry, 2021, 13, 1625.	2.2	7
43	Sensitivity of the upgraded T2K Near Detector to constrain neutrino and antineutrino interactions with no mesons in the final state by exploiting nucleon-lepton correlations. Physical Review D, 2022, 105, .	4.7	7
44	Nuclear response functions with finite-range Gogny force: Tensor terms and instabilities. Physical Review C, 2016, 94, .	2.9	6
45	Low-energy modification of the $\langle \hat{I}^3 \rangle$ strength function of the odd-even nucleus $^{115}\text{In}$ . Physical Review C, 2016, 94, .	2.9	6
46	Two particle-two hole excitations in charged current quasielastic neutrino-nucleus interactions. Journal of Physics: Conference Series, 2013, 408, 012041.	0.4	5
47	Study of dipole excitations in even-even $^{156-166}\text{Dy}$ with QRPA using the Gogny force. European Physical Journal A, 2019, 55, 1.	2.5	4
48	Multinucleon excitations in neutrino-nucleus scattering: connecting different microscopic models for the correlations. European Physical Journal: Special Topics, 2021, 230, 4357-4372.	2.6	4
49	A particle-hole model approach for hypernuclei. Nuclear Physics A, 2008, 813, 212-234.	1.5	3
50	Large scale QRPA calculations for dipole excitations based on a Gogny force. , 2012, , .		3
51	QRPA CALCULATIONS FOR SPHERICAL AND DEFORMED NUCLEI WITH THE GOGNY FORCE. Modern Physics Letters A, 2010, 25, 1775-1778.	1.2	2
52	Charge-exchange QRPA with the Gogny Force for Axially-symmetric Deformed Nuclei. Nuclear Data Sheets, 2014, 120, 133-136.	2.2	1
53	Large-scale deformed QRPA calculations of the gamma-ray strength function based on a Gogny force. Journal of Physics: Conference Series, 2016, 665, 012058.	0.4	1
54	Quasiparticle random phase approximation predictions of the gamma-ray strength functions using the Gogny force. EPJ Web of Conferences, 2017, 146, 05013.	0.3	1

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55	Neutrino interactions with nuclei. , 2009, , .		0
56	LOW-ENERGY DIPOLE EXCITATIONS IN NEON ISOTOPES AND N = 6 ISOTONES. Modern Physics Letters A, 2010, 25, 2010-2011.	1.2	0
57	Some exploitations of the self-consistent QRPA approach with the Gogny force. , 2012, , .		0
58	Neutrino energy reconstruction problems and neutrino oscillations. , 2013, , .		0
59	Gamow-Teller strength in deformed nuclei within self-consistent pnQRPA with the Gogny force. EPJ Web of Conferences, 2014, 66, 02069.	0.3	0
60	Microscopic mean field approximation and beyond with the Gogny force. Physica Scripta, 2014, 89, 054030.	2.5	0
61	Neutrino-nucleus interactions: from nuclear dynamics to neutrino oscillations. EPJ Web of Conferences, 2014, 66, 08004.	0.3	0
62	Effective photoexcitation cross section of $^{115}\text{In}$ ( $\beta^-\beta^{0\nu}$ ) $^{115}\text{mIn}$ from photoactivation data. EPJ Web of Conferences, 2016, 122, 03001.	0.3	0
63	Gamow-Teller strength and beta-decay rate within the self-consistent deformed pnQRPA. Journal of Physics: Conference Series, 2016, 665, 012057.	0.4	0
64	CRPA Calculations for Neutrino-Nucleus Scattering: From Very Low Energies to the Quasielastic Peak. , 2016, , .		0
65	Neutrino mean free path in neutron matter with Brussels-Montreal Skyrme functionals. Journal of Physics: Conference Series, 2016, 665, 012067.	0.4	0
66	SPONTANEOUS SYMMETRY BREAKING AND RESPONSE FUNCTIONS IN NEUTRON MATTER. , 2005, , .		0
67	TESTING SUPERSCALING PREDICTIONS IN ELECTROWEAK EXCITATIONS OF NUCLEI. , 2007, , .		0
68	Microscopic mean field approximation and beyond with the Gogny force. EPJ Web of Conferences, 2014, 66, 02081.	0.3	0
69	Quasielastic neutrino-nucleus scattering in a continuum random phase approximation approach. , 2015, , .		0
70	Charge exchange nuclear excitations and beta decay within the self consistent deformed QRPA. , 2015, , .		0
71	Neutrino Cross Sections: Models. , 2016, , .		0
72	Theoretical models of neutrino-nucleus cross sections. , 2016, , .		0