Marco Martini

List of Publications by Year
in descending order

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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	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
2	Description of magnetic moments within the Gogny Hartree-Fock-Bogolyubov framework: Application to Hg isotopes. Physical Review C, 2021, 104, .	2.9	12
3	A New Generation of Neutrino Cross Section Experiments: Challenges and Opportunities. Symmetry, 2021, 13, 1625.	2.2	7
4	Multinucleon excitations in neutrinoâ€“nucleus scattering: connecting different microscopic models for the correlations. European Physical Journal: Special Topics, 2021, 230, 4357-4372.	2.6	4
5	Spurious finite-size instabilities with Gogny-type interactions. European Physical Journal A, 2019, 55, 1.	2.5	11
6	Study of dipole excitations in even-even 156-166Dy with QRPA using the Gogny force. European Physical Journal A, 2019, 55, 1.	2.5	4
7	NuSTEC ÂWhite Paper: Status and challenges of neutrinoâ€“nucleus scattering. Progress in Particle and Nuclear Physics, 2018, 100, 1-68.	14.4	206
8	Neutrinoâ€“nucleus cross sections for oscillation experiments. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 013001.	3.6	109
9	Mean-field approach to reconstructed neutrino energy distributions in accelerator-based experiments. Physical Review C, 2018, 98, .	2.9	10
10	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>E</mml:mi><mml:mn>1</mml:mn></mml:mrow></mml:r and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:mn>1</mml:mn></mml:mrow></mml: strength functions from average resonance capture data. Physical Review C, 2017, 95, .	2.9	25
11	Unexpected high-energy Î³ emission from decaying exotic nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 359-362.	4.1	15
12	Electromagnetic dipole and Gamow-Teller responses of even and odd 90-94 40Zr isotopes in QRPA calculations with the D1M Gogny force. European Physical Journal A, 2017, 53, 1.	2.5	16
13	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
14	Effective photoexcitation cross section of115In(Î³,Î³â€²)115mIn from photoactivation data. EPJ Web of Conferences, 2016, 122, 03001.	0.3	0
15	Gamow-Teller strength and beta-decay rate within the self-consistent deformed pnQRPA. Journal of Physics: Conference Series, 2016, 665, 012057.	0.4	0
16	Electron-neutrino scattering off nuclei from two different theoretical perspectives. Physical Review C, 2016, 94, .	2.9	54
17	Large-scale deformed quasiparticle random-phase approximation calculations of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math>-ray strength function using the Gogny force. Physical Review C, 2016, 94, .	2.9	71
18	Gogny-Hartree-Fock-Bogolyubov plus quasiparticle random-phase approximation predictions of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>M</mml:mi><mml:mn>1</mml:mn></mml:mrow></mml: function and its impact on radiative neutron capture cross section. Physical Review C, 2016, 94, .	2.9	45

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19	Influence of short-range correlations in neutrino-nucleus scattering. Physical Review C, 2016, 94, .	2.9	43
20	Nuclear response functions with finite-range Gogny force: Tensor terms and instabilities. Physical Review C, 2016, 94, .	2.9	6
21	Assessing the role of nuclear effects in the interpretation of the MiniBooNE low-energy anomaly. Physical Review D, 2016, 93, .	4.7	16
22	Low-energy modification of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math> strength function of the odd-even nucleus <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>In</mml:mi><mml:mprescripts /><mml:none /><mml:mn>115</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2016, 94, .	2.9	6
23	CRPA Calculations for Neutrino-Nucleus Scattering: From Very Low Energies to the Quasielastic Peak. , 2016, , .		0
24	Impact of low-energy nuclear excitations on neutrino-nucleus scattering at MiniBooNE and T2K kinematics. Physical Review C, 2016, 94, .	2.9	41
25	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
26	Neutrino mean free path in neutron matter with Brussels-Montreal Skyrme functionals. Journal of Physics: Conference Series, 2016, 665, 012067.	0.4	0
27	Neutrino Cross Sections: Models. , 2016, , .		0
28	Theoretical models of neutrino-nucleus cross sections. , 2016, , .		0
29	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
30	Photoneutron cross sections for neodymium isotopes: Toward a unified understanding of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mi>Î³</mml:mi><mml:mo>,</mml:mo> <mml:mrow><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo> in the rare earth region. Physical Review C, 2015, 91, .	2.9	34
31	Neutron-driven collectivity in light tin isotopes: Proton inelastic scattering from 104Sn. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 451-455.	4.1	22
32	Neutrino versus antineutrino cross sections and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="italic">CP</mml:mi></mml:math>violation. Physical Review C, 2015, 91, .	2.9	18
33	Quasielastic neutrino-nucleus scattering in a continuum random phase approximation approach. , 2015, , .		0
34	Charge exchange nuclear excitations and beta decay within the self consistent deformed QRPA. , 2015, , .		0
35	Gamow-Teller strength in deformed nuclei within self-consistent pnQRPA with the Gogny force. EPJ Web of Conferences, 2014, 66, 02069.	0.3	0
36	Photoneutron cross sections for samarium isotopes: Toward a unified understanding of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mi>Î³</mml:mi><mml:mo>,</mml:mo> <mml:mrow><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo> in the rare earth region. Physical Review C, 2014, 90, .	2.9	44

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37	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
38	Inclusive and pion production neutrino-nucleus cross sections. Physical Review C, 2014, 90, .	2.9	27
39	Microscopic mean field approximation and beyond with the Gogny force. Physica Scripta, 2014, 89, 054030.	2.5	0
40	Linear response theory and neutrino mean free path using Brussels-Montreal Skyrme functionals. Physical Review C, 2014, 90, .	2.9	17
41	Charge-exchange QRPA with the Gogny Force for Axially-symmetric Deformed Nuclei. Nuclear Data Sheets, 2014, 120, 133-136.	2.2	1
42	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
43	Neutrino-nucleus interactions: from nuclear dynamics to neutrino oscillations. EPJ Web of Conferences, 2014, 66, 08004.	0.3	0
44	Microscopic mean field approximation and beyond with the Gogny force. EPJ Web of Conferences, 2014, 66, 02081.	0.3	0
45	Photoneutron cross sections for Mo isotopes: A step toward a unified understanding of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>(</mml:mo><mml:mi>Î³</mml:mi><mml:mo>,</mml:mo><mml:mi>n</mml:mi><mml:mo>)</mml:mo></mml:mrow></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>,</mml:mo><mml:mi>Î³</mml:mi><mml:mo>)</mml:mo></mml:mrow></mml:math> Physical Review C, 2013, 88, .	2.9	76
46	Neutrino energy reconstruction problems and neutrino oscillations. , 2013, , .		0
47	Quasielastic and multinucleon excitations in antineutrino-nucleus interactions. Physical Review C, 2013, 87, .	2.9	70
48	Energy reconstruction effects in neutrino oscillation experiments and implications for the analysis. Physical Review D, 2013, 87, .	4.7	68
49	Two particle-two hole excitations in charged current quasielastic neutrino-nucleus interactions. Journal of Physics: Conference Series, 2013, 408, 012041.	0.4	5
50	Some exploitations of the self-consistent QRPA approach with the Gogny force. , 2012, , .		0
51	Large scale QRPA calculations for dipole excitations based on a Gogny force. , 2012, , .		3
52	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
53	Discovery of a new isomeric state in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>68</mml:mn></mml:msup></mml:math>Ni: Evidence for a highly deformed proton intruder state. Physical Review C, 2012, 85, .	2.9	43
54	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

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55	Neutrino energy reconstruction problems and neutrino oscillations. Physical Review D, 2012, 85, .	4.7	96
56	Revisiting the T2K data using different models for the neutrinoâ€“nucleus cross sections. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 186-192.	4.1	40
57	Giant resonances in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">U</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>238</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>within the Low-energy dipole excitations in neon isotopes and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>16</mml:mn></mml:mrow></mml:math>isotone within the quasiparticle random-phase approximation and the Gogny force. Physical Review C, 2011, 83, .	2.9	65
58		2.9	47
59	Neutrino quasielastic interaction and nuclear dynamics. Physical Review C, 2011, 84, .	2.9	128
60	Neutrino and antineutrino quasielastic interactions with nuclei. Physical Review C, 2010, 81, .	2.9	191
61	QRPA CALCULATIONS FOR SPHERICAL AND DEFORMED NUCLEI WITH THE GOGNY FORCE. Modern Physics Letters A, 2010, 25, 1775-1778.	1.2	2
62	LOW-ENERGY DIPOLE EXCITATIONS IN NEON ISOTOPES AND N = 6 ISOTONES. Modern Physics Letters A, 2010, 25, 2010-2011.	1.2	0
63	Nuclear response for the Skyrme effective interaction with zero-range tensor terms. Physical Review C, 2009, 80, .	2.9	43
64	Neutrino interactions with nuclei. , 2009, , .		0
65	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
66	A particleâ€“hole model approach for hypernuclei. Nuclear Physics A, 2008, 813, 212-234.	1.5	3
67	Superscaling in electroweak excitation of nuclei. Physical Review C, 2007, 75, .	2.9	22
68	TESTING SUPERSCALING PREDICTIONS IN ELECTROWEAK EXCITATIONS OF NUCLEI. , 2007, , .		0
69	Two-pion production processes, chiral symmetry and NN interaction in the medium. European Physical Journal A, 2006, 27, 191-198.	2.5	13
70	Spontaneous symmetry breaking and response functions. Annals of Physics, 2005, 317, 444-473.	2.8	13
71	SPONTANEOUS SYMMETRY BREAKING AND RESPONSE FUNCTIONS IN NEUTRON MATTER. , 2005, , .		0
72	Mean field at finite temperature and symmetry breaking. Annals of Physics, 2004, 311, 81-119.	2.8	11