

Rayner Roberto Rodriguez Guzman

List of Publications by Year in descending order

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53
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citations

361413

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docs citations

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868
citing authors

#	ARTICLE	IF	CITATIONS
1	Quadrupole-octupole collectivity in the Xe, Ba, Ce and Nd isotopic chains described with mean field and beyond approaches. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 015101.	3.6	5
2	Microscopic description of quadrupole-octupole coupling in neutron-rich actinides and superheavy nuclei with the Gogny-D1M energy density functional. Physical Review C, 2021, 103, .	2.9	13
3	Quadrupole-octupole coupling and the onset of octupole deformation in actinides. Physical Review C, 2021, 103, .	2.9	17
4	Microscopic description of quadrupole-octupole coupling in actinides with the Gogny-D1M energy density functional. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 015103.	3.6	14
5	Evolution of octupole deformation and collectivity in neutron-rich lanthanides. Physical Review C, 2021, 104, .	2.9	14
6	Quadrupole-octupole coupling and the evolution of collectivity in neutron-deficient Xe, Ba, Ce, and Nd isotopes. Physical Review C, 2021, 104, .	2.9	8
7	Lifetime measurements to investigate softness and shape coexistence in ^{102}Mo . Physical Review C, 2021, 104, .	2.9	6
8	Microscopic description of fission in superheavy nuclei with the parametrization D1M [*] of the Gogny energy density functional. European Physical Journal A, 2020, 56, 1.	2.5	26
9	\hat{I}^2 decay of odd- A nuclei with the interacting boson-fermion model based on the Gogny energy density functional. Physical Review C, 2020, 101, .	2.9	12
10	Structure of odd-odd Cs isotopes within the interacting boson-fermion-fermion model based on the Gogny-D1M energy density functional. Physical Review C, 2020, 101, .	2.9	13
11	\hat{I}^2 decay of even- A nuclei within the interacting boson model with input based on nuclear density functional theory. Physical Review C, 2020, 101, .	2.9	12
12	Octupole correlations in light actinides from the interacting boson model based on the Gogny energy density functional. Physical Review C, 2020, 102, .	2.9	13
13	Spectroscopy of odd-odd nuclei within the interacting boson-fermion-fermion model based on the Gogny energy-density functional. Physical Review C, 2019, 99, .	2.9	8
14	Lifetime measurements and shape coexistence in ^{97}Sr . Physical Review C, 2019, 100, .	2.9	13
15	Mean field and beyond description of nuclear structure with the Gogny force: a review. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 013001.	3.6	129
16	Least action description of spontaneous fission in fermium and nobelium nuclei based on the Gogny energy density functional. Physical Review C, 2018, 98, .	2.9	16
17	Description of neutron-rich odd-mass krypton isotopes within the interacting boson-fermion model based on the Gogny energy density functional. Physical Review C, 2018, 97, .	2.9	4
18	Prolate-to-oblate shape phase transitions in neutron-rich odd-mass nuclei. Physical Review C, 2018, 97, .	2.9	9

#	ARTICLE	IF	CITATIONS
19	Structure of krypton isotopes within the interacting boson model derived from the Gogny energy density functional. Physical Review C, 2017, 96, .	2.9	14
20	Description of odd-mass nuclei within the interacting boson-fermion model based on the Gogny energy density functional. Physical Review C, 2017, 96, .	2.9	15
21	Structural evolution in germanium and selenium nuclei within the mapped interacting boson model based on the Gogny energy density functional. Physical Review C, 2017, 95, .	2.9	32
22	Microscopic description of fission in odd-mass uranium and plutonium nuclei with the Gogny energy density functional. European Physical Journal A, 2017, 53, 1.	2.5	20
23	Shape transitions in odd-mass \hat{I}^3 -soft nuclei within the interacting boson-fermion model based on the Gogny energy density functional. Physical Review C, 2017, 96, .	2.9	19
24	Microscopic description of the competition between spontaneous fission and β -decay in neutron-rich Ra, U and Pu nuclei. Journal of Physics: Conference Series, 2017, 869, 012061.	0.4	0
25	Microscopic description of fission in nobelium isotopes with the Gogny-D1M energy density functional. European Physical Journal A, 2016, 52, 1.	2.5	13
26	Structural evolution in ^{100}Kr within the mapped interacting boson model based on the Gogny energy density functional. Physical Review C, 2016, 94, .	2.9	65
27	Microscopic description of fission in neutron-rich radium isotopes with the Gogny energy density functional. European Physical Journal A, 2016, 52, 1.	2.5	11
28	Spectroscopy of quadrupole and octupole states in rare-earth nuclei from a Gogny force. Physical Review C, 2015, 92, .	2.9	47
29	Microscopic description of quadrupole collectivity in neutron-rich nuclei across the $N = 126$ shell closure. European Physical Journal A, 2015, 51, 1.	2.5	5
30	Evolution of quadrupole strength in deformed hafnium isotopes from new measurements on ^{172}Hf .	2.9	19
31	Symmetry-projected wave functions in quantum Monte Carlo calculations. Physical Review B, 2014, 89, .	3.2	43
32	Variational description of the ground state of the repulsive two-dimensional Hubbard model in terms of nonorthogonal symmetry-projected Slater determinants. Physical Review B, 2014, 90, .	3.2	11
33	Multireference symmetry-projected variational approximation for the ground state of the doped one-dimensional Hubbard model. Physical Review B, 2014, 89, .	3.2	7
34	Potential energy curves for Mo_2 : multi-component symmetry-projected Hartree-Fock and beyond. Molecular Physics, 2014, 112, 1938-1946.	1.7	9
35	Shape dynamics in neutron-rich Kr isotopes: Coulomb excitation of ^{92}Kr , ^{94}Kr and ^{96}Kr . Nuclear Physics A, 2013, 899, 1-28.	1.5	40
36	Excited electronic states from a variational approach based on symmetry-projected Hartree-Fock configurations. Journal of Chemical Physics, 2013, 139, 224110.	3.0	28

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37	Multireference symmetry-projected variational approaches for ground and excited states of the one-dimensional Hubbard model. Physical Review B, 2013, 87, .	3.2	44
38	Nuclear shape transitions in neutron-rich medium-mass nuclei. , 2012, , .		0
39	Shape coexistence in lead isotopes in the interacting boson model with a Gogny energy density functional. Physical Review C, 2012, 86, .	2.9	31
40	Symmetry-projected variational approach for ground and excited states of the two-dimensional Hubbard model. Physical Review B, 2012, 85, .	3.2	42
41	Microscopic description of quadrupole-octupole coupling in Sm and Gd isotopes with the Gogny energy density functional. Physical Review C, 2012, 86, .	2.9	52
42	Octupole deformation properties of actinide isotopes within a mean-field approach. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 105103.	3.6	35
43	N -electron Slater determinants from nonunitary canonical transformations of fermion operators. Physical Review A, 2012, 86, .	2.5	14
44	Evidence for a Smooth Onset of Deformation in the Neutron-Rich Kr Isotopes. Physical Review Letters, 2012, 108, 062701.	7.8	69
45	Precision mass measurements of neutron-rich Y, Nb, Mo, Tc, Ru, Rh, and Pd isotopes. European Physical Journal A, 2011, 47, 1.	2.5	22
46	Microscopic description of shape evolution in medium-mass nuclei. Journal of Physics: Conference Series, 2010, 205, 012024.	0.4	2
47	Onset of deformation in neutron-rich nuclei near Ca	2.9	26
48	Evolution of nuclear shapes in medium mass isotopes from a microscopic perspective. Physical Review C, 2008, 78, .	2.9	67
49	Quality of the restricted variation after projection method with angular momentum projection. Physical Review C, 2005, 71, .	2.9	18
50	Beyond mean field description of shape coexistence in neutron-deficient Pb isotopes. Physical Review C, 2004, 69, .	2.9	86
51	ON THE STABILITY OF PROJECTION AFTER VARIATION SOLUTIONS. International Journal of Modern Physics E, 2004, 13, 165-168.	1.0	2
52	Quadrupole collectivity in ^{28}N nuclei with the angular momentum projected generator coordinate method. Physical Review C, 2002, 65, .	2.9	105
53	Theory and applications beyond mean field with effective forces. AIP Conference Proceedings, 2002, , .	0.4	0