## A Rios

## List of Publications by Year in descending order

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76 papers	1,841 citations	236925 25 h-index	254184 43 g-index
77	77	77	955
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Many-body approximations to the superfluid gap and critical temperature in pure neutron matter. European Physical Journal A, 2022, 58, .	2.5	4
2	Nuclear ground states in a consistent implementation of the time-dependent density matrix approach. Physical Review C, 2021, $103$ , .	2.9	2
3	Reply to "Comment on â€~Reexamining the relation between the binding energy of finite nuclei and the equation of state of infinite nuclear matter' ― Physical Review C, 2021, 104, .	2.9	0
4	Machine learning the deuteron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135743.	4.1	33
5	Dynamics of one-dimensional correlated nuclear systems within non-equilibrium Green's function theory. Annals of Physics, 2020, 420, 168272.	2.8	4
6	Reexamining the relation between the binding energy of finite nuclei and the equation of state of infinite nuclear matter. Physical Review C, 2020, $102$ , .	2.9	16
7	Green's Function Techniques for Infinite Nuclear Systems. Frontiers in Physics, 2020, 8, .	2.1	18
8	The Hellmann–Feynman theorem at finite temperature. American Journal of Physics, 2020, 88, 503-510.	0.7	6
9	Short range correlations in nuclei and nuclear matter. Journal of Physics: Conference Series, 2020, 1643, 012164.	0.4	1
10	Nuclear slabs with Green's functions: mean field and short-range correlations. European Physical Journal: Special Topics, 2019, 227, 1949-1958.	2.6	2
11	Beta decay gets the ab initio treatment. Nature Physics, 2019, 15, 425-426.	16.7	0
12	Dissipation Dynamics of Nuclear Fusion Reactions. Acta Physica Polonica B, 2019, 50, 567.	0.8	1
13	Beyond BCS pairing in high-density neutron matter. Journal of Physics: Conference Series, 2018, 940, 012014.	0.4	1
14	Two-body dissipation effect in nuclear fusion reactions. Physical Review C, 2018, 98, .	2.9	14
15	Microscopic predictions of the nuclear matter liquid-gas phase transition. Physical Review C, 2018, 98,	2.9	35
16	Comparison of nuclear Hamiltonians using spectral function sum rules. Physical Review C, 2017, 96, .	2.9	5
17	Correlations within the non-equilibrium Green's function method. AIP Conference Proceedings, 2017, ,	0.4	0
18	Pairing and Short-Range Correlations in Nuclear Systems. Journal of Low Temperature Physics, 2017, 189, 234-249.	1.4	15

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19	Higher-order symmetry energy and neutron star core-crust transition with Gogny forces. Physical Review C, 2017, 96, .	2.9	53
20	Towards Quantum Transport for Central Nuclear Reactions. Journal of Physics: Conference Series, 2016, 696, 012010.	0.4	0
21	Nuclear astrophysics with radioactive ions at FAIR. Journal of Physics: Conference Series, 2016, 665, 012044.	0.4	9
22	Pairing in high-density neutron matter including short- and long-range correlations. Physical Review C, 2016, 94, .	2.9	65
23	Di-nucleon structures in homogeneous nuclear matter based on two- and three-nucleon interactions. European Physical Journal A, 2016, 52, 1.	2.5	9
24	Di-neutrons in neutron matter within a Brueckner-Hartree-Fock approach. Physical Review C, 2016, 94, .	2.9	21
25	Fission dynamics within time-dependent Hartree-Fock. II. Boost-induced fission. Physical Review C, 2016, 93, .	2.9	43
26	Publisher's Note: Pairing in high-density neutron matter including short- and long-range correlations [Phys. Rev. C <b>94</b> , 025802 (2016)]. Physical Review C, 2016, 94, .	2.9	8
27	Fission dynamics within time-dependent Hartree-Fock: Deformation-induced fission. Physical Review C, 2015, 92, .	2.9	72
28	Covariance analysis of finite temperature density functional theory: symmetric nuclear matter. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 034005.	3.6	4
29	Nucleon mean-free path in the medium. EPJ Web of Conferences, 2014, 66, 03081.	0.3	0
30	Pairing in bulk nuclear matter beyond BCS. , 2014, , .		0
31	The Large Observatory for x-ray timing. Proceedings of SPIE, 2014, , .	0.8	10
32	Tensor force effects and high-momentum components in the nuclear symmetry energy. European Physical Journal A, 2014, 50, 1.	2.5	22
33	Correlated density-dependent chiral forces for infinite-matter calculations within the Green's function approach. Physical Review C, 2014, 90, .	2.9	81
34	Isovector properties of the Gogny interaction. Physical Review C, 2014, 90, .	2.9	61
35	Density and isospin-asymmetry dependence of high-momentum components. Physical Review C, 2014, 89,	2.9	87
36	Cause of the charge radius isotope shift at the N=126 shell gap. EPJ Web of Conferences, 2014, 66, 02042.	0.3	1

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37	Self-consistent Green's functions calculation of the nucleon mean-free path. Journal of Physics: Conference Series, 2013, 427, 012009.	0.4	1
38	Symmetric nuclear matter with chiral three-nucleon forces in the self-consistent Green's functions approach. Physical Review C, 2013, $88$ , .	2.9	93
39	Self-consistent Green's functions formalism with three-body interactions. Physical Review C, 2013, 88,	2.9	103
40	Dipole response of <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow></mml:mrow><mml:mn>76</mml:mn></mml:msup></mml:math> Se above 4 MeV. Physical Review C, 2013, 88, .	2.9	38
41	Charge Radius Isotope Shift Across the <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>N</mml:mi><mml:mo mathvariant="bold">=</mml:mo><mml:mn>126</mml:mn></mml:math> Shell Gap. Physical Review Letters. 2013. 110. 032503.	7.8	39
42	High-momentum components in the nuclear symmetry energy. , 2013, , .		0
43	Towards a nonequilibrium Green's function description of nuclear reactions. Journal of Physics: Conference Series, 2013, 427, 012010.	0.4	1
44	Comparative study of neutron and nuclear matter with simplified Argonne nucleon-nucleon potentials. Physical Review C, 2012, 86, .	2.9	65
45	Liquid-gas phase transition in nuclear matter: Mean-field and beyond. EPJ Web of Conferences, 2012, 31, 00003.	0.3	0
46	Symmetry energy within the BHF approach. Journal of Physics: Conference Series, 2012, 342, 012012.	0.4	0
47	Self-Consistent Green's Function Calculation of the Nucleon Mean Free Path. Physical Review Letters, 2012, 108, 012501.	7.8	20
48	High-momentum components in the nuclear symmetry energy. Europhysics Letters, 2012, 97, 22001.	2.0	47
49	Role of short-range and tensor correlations in nuclei. Journal of Physics: Conference Series, 2011, 312, 022007.	0.4	1
50	Role of short-range and tensor correlations in nuclei. Journal of Physics: Conference Series, 2011, 321, 012038.	0.4	0
51	Symmetry Energy, Neutron Star Crust and Neutron Skin Thickness. Few-Body Systems, 2011, 50, 327-329.	1.5	0
52	Towards a nonequilibrium Green's function description of nuclear reactions: One-dimensional mean-field dynamics. Annals of Physics, 2011, 326, 1274-1319.	2.8	30
53	Publisher's Note: Latent heat of nuclear matter [Phys. Rev. C83, 024308 (2011)]. Physical Review C, 2011, 83, .	2.9	3
54	Liquid-gas phase transition in nuclear matter in the mean-field approximation. Journal of Physics: Conference Series, 2011, 321, 012058.	0.4	0

#	Article	ΙF	Citations
55	Latent heat of nuclear matter. Physical Review C, 2011, 83, .	2.9	11
56	Effective interaction dependence of the liquid–gas phase transition in symmetric nuclear matter. Nuclear Physics A, 2010, 845, 58-87.	1.5	35
57	Entropy of a correlated system of nucleons. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 508-512.	2.7	0
58	Towards quantum transport for nuclear reactions. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 501-507.	2.7	1
59	Nucleon correlations and the equation of state of nuclear matter. , 2010, , .		0
60	Density dependence of the nuclear symmetry energy: A microscopic perspective. Physical Review C, 2009, 80, .	2.9	181
61	Time-Dependent Green's Functions Description of One-Dimensional Nuclear Mean-Field Dynamics. , 2009, , .		0
62	Depletion of the nuclear Fermi sea. Physical Review C, 2009, 79, .	2.9	66
63	Hot neutron matter from a self-consistent Green's-functions approach. Physical Review C, 2009, 79, .	2.9	62
64	Liquid-gas phase transition in nuclear matter from realistic many-body approaches. Physical Review C, 2008, 78, .	2.9	42
65	Time-dependent Green's functions approach to nuclear reactions. AIP Conference Proceedings, 2008, , .	0.4	1
66	The entropy of a correlated system of nucleons. Nuclear Physics A, 2007, 782, 346-349.	1.5	2
67	The entropy of a correlated system of nucleons. Progress in Particle and Nuclear Physics, 2007, 59, 311-313.	14.4	0
68	Sum rules and correlations in asymmetric nuclear matter. Physical Review C, 2006, 73, .	2.9	7
69	Entropy of a correlated system of nucleons. Physical Review C, 2006, 74, .	2.9	25
70	CORRELATIONS IN HOT ASYMMETRIC NUCLEAR MATTER. , 2006, , .		0
71	Microscopic calculations of spin polarized neutron matter at finite temperature. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 632, 638-643.	4.1	50
72	Ferromagnetic instabilities in neutron matter at finite temperature with the Gogny interaction. Physical Review C, 2006, 74, .	2.9	27

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73	CORRELATIONS IN HOT ASYMMETRIC NUCLEAR MATTER. International Journal of Modern Physics B, 2006, 20, 5346-5356.	2.0	2
74	Bulk and single-particle properties of hyperonic matter at finite temperature. Physical Review C, 2005, 72, .	2.9	14
75	Correlations in hot asymmetric nuclear matter. Physical Review C, 2005, 71, .	2.9	110
76	Ferromagnetic instabilities in neutron matter at finite temperature with the Skyrme interaction. Physical Review C, 2005, 71, .	2.9	61