

# 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  
all docs

77  
docs citations

77  
times ranked

955  
citing authors

#	ARTICLE	IF	CITATIONS
1	Density dependence of the nuclear symmetry energy: A microscopic perspective. <i>Physical Review C</i> , 2009, 80, .	2.9	181
2	Correlations in hot asymmetric nuclear matter. <i>Physical Review C</i> , 2005, 71, .	2.9	110
3	Self-consistent Green's functions formalism with three-body interactions. <i>Physical Review C</i> , 2013, 88, .	2.9	103
4	Symmetric nuclear matter with chiral three-nucleon forces in the self-consistent Green's functions approach. <i>Physical Review C</i> , 2013, 88, .	2.9	93
5	Density and isospin-asymmetry dependence of high-momentum components. <i>Physical Review C</i> , 2014, 89, .	2.9	87
6	Correlated density-dependent chiral forces for infinite-matter calculations within the Green's function approach. <i>Physical Review C</i> , 2014, 90, .	2.9	81
7	Fission dynamics within time-dependent Hartree-Fock: Deformation-induced fission. <i>Physical Review C</i> , 2015, 92, .	2.9	72
8	Depletion of the nuclear Fermi sea. <i>Physical Review C</i> , 2009, 79, .	2.9	66
9	Comparative study of neutron and nuclear matter with simplified Argonne nucleon-nucleon potentials. <i>Physical Review C</i> , 2012, 86, .	2.9	65
10	Pairing in high-density neutron matter including short- and long-range correlations. <i>Physical Review C</i> , 2016, 94, .	2.9	65
11	Hot neutron matter from a self-consistent Green's-functions approach. <i>Physical Review C</i> , 2009, 79, .	2.9	62
12	Ferromagnetic instabilities in neutron matter at finite temperature with the Skyrme interaction. <i>Physical Review C</i> , 2005, 71, .	2.9	61
13	Isovector properties of the Gogny interaction. <i>Physical Review C</i> , 2014, 90, .	2.9	61
14	Higher-order symmetry energy and neutron star core-crust transition with Gogny forces. <i>Physical Review C</i> , 2017, 96, .	2.9	53
15	Microscopic calculations of spin polarized neutron matter at finite temperature. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 632, 638-643.	4.1	50
16	High-momentum components in the nuclear symmetry energy. <i>Europhysics Letters</i> , 2012, 97, 22001.	2.0	47
17	Fission dynamics within time-dependent Hartree-Fock. II. Boost-induced fission. <i>Physical Review C</i> , 2016, 93, .	2.9	43
18	Liquid-gas phase transition in nuclear matter from realistic many-body approaches. <i>Physical Review C</i> , 2008, 78, .	2.9	42

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19	Charge Radius Isotope Shift Across the $N < \mathbf{126}$ Shell Gap. Physical Review Letters, 2013, 110, 032503.	7.8	39
20	Dipole response of $^{76}\text{Se}$ above 4 MeV. Physical Review C, 2013, 88, .	2.9	38
21	Effective interaction dependence of the liquid-gas phase transition in symmetric nuclear matter. Nuclear Physics A, 2010, 845, 58-87.	1.5	35
22	Microscopic predictions of the nuclear matter liquid-gas phase transition. Physical Review C, 2018, 98, .	2.9	35
23	Machine learning the deuteron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135743.	4.1	33
24	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
25	Ferromagnetic instabilities in neutron matter at finite temperature with the Gogny interaction. Physical Review C, 2006, 74, .	2.9	27
26	Entropy of a correlated system of nucleons. Physical Review C, 2006, 74, .	2.9	25
27	Tensor force effects and high-momentum components in the nuclear symmetry energy. European Physical Journal A, 2014, 50, 1.	2.5	22
28	Di-neutrons in neutron matter within a Brueckner-Hartree-Fock approach. Physical Review C, 2016, 94, .	2.9	21
29	Self-Consistent Green's Function Calculation of the Nucleon Mean Free Path. Physical Review Letters, 2012, 108, 012501.	7.8	20
30	Green's Function Techniques for Infinite Nuclear Systems. Frontiers in Physics, 2020, 8, .	2.1	18
31	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
32	Pairing and Short-Range Correlations in Nuclear Systems. Journal of Low Temperature Physics, 2017, 189, 234-249.	1.4	15
33	Bulk and single-particle properties of hyperonic matter at finite temperature. Physical Review C, 2005, 72, .	2.9	14
34	Two-body dissipation effect in nuclear fusion reactions. Physical Review C, 2018, 98, .	2.9	14
35	Latent heat of nuclear matter. Physical Review C, 2011, 83, .	2.9	11
36	The Large Observatory for x-ray timing. Proceedings of SPIE, 2014, , .	0.8	10

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37	Nuclear astrophysics with radioactive ions at FAIR. Journal of Physics: Conference Series, 2016, 665, 012044.	0.4	9
38	Di-nucleon structures in homogeneous nuclear matter based on two- and three-nucleon interactions. European Physical Journal A, 2016, 52, 1.	2.5	9
39	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
40	Sum rules and correlations in asymmetric nuclear matter. Physical Review C, 2006, 73, .	2.9	7
41	The Hellmannâ€“Feynman theorem at finite temperature. American Journal of Physics, 2020, 88, 503-510.	0.7	6
42	Comparison of nuclear Hamiltonians using spectral function sum rules. Physical Review C, 2017, 96, .	2.9	5
43	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
44	Dynamics of one-dimensional correlated nuclear systems within non-equilibrium Greenâ€™s function theory. Annals of Physics, 2020, 420, 168272.	2.8	4
45	Many-body approximations to the superfluid gap and critical temperature in pure neutron matter. European Physical Journal A, 2022, 58, .	2.5	4
46	Publisherâ€™s Note: Latent heat of nuclear matter [Phys. Rev. C <b>83</b> , 024308 (2011)]. Physical Review C, 2011, 83, .	2.9	3
47	CORRELATIONS IN HOT ASYMMETRIC NUCLEAR MATTER. International Journal of Modern Physics B, 2006, 20, 5346-5356.	2.0	2
48	The entropy of a correlated system of nucleons. Nuclear Physics A, 2007, 782, 346-349.	1.5	2
49	Nuclear slabs with Greenâ€™s functions: mean field and short-range correlations. European Physical Journal: Special Topics, 2019, 227, 1949-1958.	2.6	2
50	Nuclear ground states in a consistent implementation of the time-dependent density matrix approach. Physical Review C, 2021, 103, .	2.9	2
51	Time-dependent Green's functions approach to nuclear reactions. AIP Conference Proceedings, 2008, , .	0.4	1
52	Towards quantum transport for nuclear reactions. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 501-507.	2.7	1
53	Role of short-range and tensor correlations in nuclei. Journal of Physics: Conference Series, 2011, 312, 022007.	0.4	1
54	Self-consistent Green's functions calculation of the nucleon mean-free path. Journal of Physics: Conference Series, 2013, 427, 012009.	0.4	1

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55	Towards a nonequilibrium Green's function description of nuclear reactions. Journal of Physics: Conference Series, 2013, 427, 012010.	0.4	1
56	Cause of the charge radius isotope shift at the N=126 shell gap. EPJ Web of Conferences, 2014, 66, 02042.	0.3	1
57	Beyond BCS pairing in high-density neutron matter. Journal of Physics: Conference Series, 2018, 940, 012014.	0.4	1
58	Dissipation Dynamics of Nuclear Fusion Reactions. Acta Physica Polonica B, 2019, 50, 567.	0.8	1
59	Short range correlations in nuclei and nuclear matter. Journal of Physics: Conference Series, 2020, 1643, 012164.	0.4	1
60	CORRELATIONS IN HOT ASYMMETRIC NUCLEAR MATTER. , 2006, , .		0
61	The entropy of a correlated system of nucleons. Progress in Particle and Nuclear Physics, 2007, 59, 311-313.	14.4	0
62	Time-Dependent Green's Functions Description of One-Dimensional Nuclear Mean-Field Dynamics. , 2009, , .		0
63	Entropy of a correlated system of nucleons. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 508-512.	2.7	0
64	Nucleon correlations and the equation of state of nuclear matter. , 2010, , .		0
65	Role of short-range and tensor correlations in nuclei. Journal of Physics: Conference Series, 2011, 321, 012038.	0.4	0
66	Symmetry Energy, Neutron Star Crust and Neutron Skin Thickness. Few-Body Systems, 2011, 50, 327-329.	1.5	0
67	Liquid-gas phase transition in nuclear matter in the mean-field approximation. Journal of Physics: Conference Series, 2011, 321, 012058.	0.4	0
68	Liquid-gas phase transition in nuclear matter: Mean-field and beyond. EPJ Web of Conferences, 2012, 31, 00003.	0.3	0
69	Symmetry energy within the BHF approach. Journal of Physics: Conference Series, 2012, 342, 012012.	0.4	0
70	High-momentum components in the nuclear symmetry energy. , 2013, , .		0
71	Nucleon mean-free path in the medium. EPJ Web of Conferences, 2014, 66, 03081.	0.3	0
72	Pairing in bulk nuclear matter beyond BCS. , 2014, , .		0

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73	Towards Quantum Transport for Central Nuclear Reactions. Journal of Physics: Conference Series, 2016, 696, 012010.	0.4	0
74	Correlations within the non-equilibrium Greenâ€™s function method. AIP Conference Proceedings, 2017, , .	0.4	0
75	Beta decay gets the ab initio treatment. Nature Physics, 2019, 15, 425-426.	16.7	0
76	Reply to â€œComment on â€˜Reexamining the relation between the binding energy of finite nuclei and the equation of state of infinite nuclear matterâ€™â€™. Physical Review C, 2021, 104, .	2.9	0