

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

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 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 $^{76}\text{Se}$ above 4 MeV. Physical Review C, 2013, 88, .   | 2.9 | 38        |
| 41 | Charge Radius Isotope Shift Across the $N$ 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         |

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|----|--|------|-----------|
| 55 | Latent heat of nuclear matter. <i>Physical Review C</i> , 2011, 83, .  | 2.9  | 11        |
| 56 | Effective interaction dependence of the liquid-gas phase transition in symmetric nuclear matter. <i>Nuclear Physics A</i> , 2010, 845, 58-87.  | 1.5  | 35        |
| 57 | Entropy of a correlated system of nucleons. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 508-512.  | 2.7  | 0         |
| 58 | Towards quantum transport for nuclear reactions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 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. <i>Physical Review C</i> , 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. <i>Physical Review C</i> , 2009, 79, .   | 2.9  | 66        |
| 63 | Hot neutron matter from a self-consistent Green's-functions approach. <i>Physical Review C</i> , 2009, 79, .   | 2.9  | 62        |
| 64 | Liquid-gas phase transition in nuclear matter from realistic many-body approaches. <i>Physical Review C</i> , 2008, 78, .  | 2.9  | 42        |
| 65 | Time-dependent Green's functions approach to nuclear reactions. <i>AIP Conference Proceedings</i> , 2008, , .  | 0.4  | 1         |
| 66 | The entropy of a correlated system of nucleons. <i>Nuclear Physics A</i> , 2007, 782, 346-349.   | 1.5  | 2         |
| 67 | The entropy of a correlated system of nucleons. <i>Progress in Particle and Nuclear Physics</i> , 2007, 59, 311-313.   | 14.4 | 0         |
| 68 | Sum rules and correlations in asymmetric nuclear matter. <i>Physical Review C</i> , 2006, 73, .  | 2.9  | 7         |
| 69 | Entropy of a correlated system of nucleons. <i>Physical Review C</i> , 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. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006, 632, 638-643. | 4.1  | 50        |
| 72 | Ferromagnetic instabilities in neutron matter at finite temperature with the Gogny interaction. <i>Physical Review C</i> , 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        |