

Xavier Viñas

List of Publications by Year in descending order

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192
papers

4,536
citations

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1499
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Nuclear Symmetry Energy Probed by Neutron Skin Thickness of Nuclei. <i>Physical Review Letters</i> , 2009, 102, 122502. | 7.8 | 416 |
| 2 | Neutron Skin of ^{208}Pb , Nuclear Symmetry Energy, and the Parity Radius Experiment. <i>Physical Review Letters</i> , 2011, 106, 252501. | 7.8 | 310 |
| 3 | Electric dipole polarizability in ^{68}Ni and ^{120}Sn . <i>Physical Review C</i> , 2015, 92, . | 2.9 | 175 |
| 4 | Neutron skin thickness in the droplet model with surface width dependence: Indications of softness of the nuclear symmetry energy. <i>Physical Review C</i> , 2009, 80, . | 2.9 | 166 |
| 5 | Relativistic mean-field interaction with density-dependent meson-nucleon vertices based on microscopical calculations. <i>Physical Review C</i> , 2011, 84, . | 2.9 | 157 |
| 6 | Electric dipole polarizability in ^{208}Pb : Insights from the droplet model. <i>Physical Review C</i> , 2013, 88, . | 2.9 | 146 |
| 7 | Unified equation of state for neutron stars on a microscopic basis. <i>Astronomy and Astrophysics</i> , 2015, 584, A103. | 5.1 | 117 |
| 8 | Low densities in nuclear and neutron matters and in the nuclear surface. <i>Nuclear Physics A</i> , 2004, 736, 241-254. | 1.5 | 94 |
| 9 | New Kohn-Sham density functional based on microscopic nuclear and neutron matter equations of state. <i>Physical Review C</i> , 2013, 87, . | 2.9 | 89 |
| 10 | Kohn-Sham density functional inspired approach to nuclear binding. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 663, 390-394. | 4.1 | 88 |
| 11 | Pairing properties in relativistic mean field models obtained from effective field theory. <i>Physical Review C</i> , 2001, 63, . | 2.9 | 86 |
| 12 | Origin of the neutron skin thickness of ^{208}Pb in nuclear mean-field models. <i>Physical Review C</i> , 2010, 82, . | 2.9 | 79 |
| 13 | Effects of new nonlinear couplings in relativistic effective field theory. <i>Physical Review C</i> , 2001, 63, . | 2.9 | 77 |
| 14 | Density dependence of the symmetry energy from neutron skin thickness in finite nuclei. <i>European Physical Journal A</i> , 2014, 50, 1. | 2.5 | 77 |
| 15 | Analysis of bulk and surface contributions in the neutron skin of nuclei. <i>Physical Review C</i> , 2010, 81, . | 2.9 | 76 |
| 16 | Atomic parity nonconservation, neutron radii, and effective field theories of nuclei. <i>Physical Review C</i> , 2005, 71, . | 2.9 | 68 |
| 17 | Semiclassical treatment of asymmetric semi-infinite nuclear matter: surface and curvature properties in relativistic and non-relativistic models. <i>Nuclear Physics A</i> , 1998, 635, 193-230. | 1.5 | 67 |
| 18 | Octupole deformation properties of the Barcelona-Catania-Paris energy density functionals. <i>Physical Review C</i> , 2010, 81, . | 2.9 | 59 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Superheavy nuclei in a relativistic effective Lagrangian model. <i>Physical Review C</i> , 2004, 69, . | 2.9 | 55 |
| 20 | Interdependence of different symmetry energy elements. <i>Physical Review C</i> , 2017, 96, . | 2.9 | 55 |
| 21 | Theoretical study of elastic electron scattering off stable and exotic nuclei. <i>Physical Review C</i> , 2008, 78, . | 2.9 | 53 |
| 22 | Higher-order symmetry energy and neutron star core-crust transition with Gogny forces. <i>Physical Review C</i> , 2017, 96, . | 2.9 | 53 |
| 23 | Self-consistent extended Thomas-Fermi calculations in nuclei. <i>Nuclear Physics A</i> , 1990, 510, 397-416. | 1.5 | 50 |
| 24 | Versatility of field theory motivated nuclear effective Lagrangian approach. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 601, 51-55. | 4.1 | 48 |
| 25 | Microscopic-macroscopic approach for binding energies with the Wigner-Kirkwood method. <i>Physical Review C</i> , 2010, 81, . | 2.9 | 43 |
| 26 | New Gogny interaction suitable for astrophysical applications. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 779, 195-200. | 4.1 | 43 |
| 27 | A Semiclassical Approach to Relativistic Nuclear Mean Field Theory. <i>Annals of Physics</i> , 1993, 221, 165-204. | 2.8 | 42 |
| 28 | Excitation energy dependence of the symmetry energy of finite nuclei. <i>Physical Review C</i> , 2007, 76, . | 2.9 | 42 |
| 29 | Extended Thomas-Fermi approximation to the one-body density matrix. <i>Nuclear Physics A</i> , 2000, 665, 291-317. | 1.5 | 40 |
| 30 | Ground-state properties and spins of the odd $Z=N+1$ nuclei ^{61}Ga – ^{97}In . <i>Physical Review C</i> , 2001, 63, . | 2.9 | 39 |
| 31 | On the relativistic extended Thomas-Fermi method. <i>Nuclear Physics A</i> , 1990, 519, 73-82. | 1.5 | 37 |
| 32 | Pairing in exotic neutron-rich nuclei near the drip line and in the crust of neutron stars. <i>Physical Review C</i> , 2013, 88, . | 2.9 | 36 |
| 33 | Quasiloca density functional theory and its application within the extended Thomas-Fermi approximation. <i>Physical Review C</i> , 2003, 67, . | 2.9 | 35 |
| 34 | Model dependence of the neutron-skin thickness on the symmetry energy. <i>Physical Review C</i> , 2016, 93, . | 2.9 | 34 |
| 35 | Semiclassical approximations in non-linear \hat{H}_{\pm} models. <i>Nuclear Physics A</i> , 1992, 537, 486-500. | 1.5 | 33 |
| 36 | Pauli distorted double folded potential. <i>Physical Review C</i> , 2001, 64, . | 2.9 | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Pairing matrix elements and pairing gaps with bare, effective, and induced interactions. <i>Physical Review C</i> , 2005, 72, . | 2.9 | 32 |
| 38 | Emission of prompt nucleons in heavy ion collisions. <i>Zeitschrift für Physik A</i> , 1985, 320, 383-392. | 1.4 | 31 |
| 39 | Surface incompressibility from semiclassical relativistic mean field calculations. <i>Physical Review C</i> , 2002, 65, . | 2.9 | 31 |
| 40 | Garvey-Kelson relations for nuclear charge radii. <i>European Physical Journal A</i> , 2010, 46, 379-386. | 2.5 | 31 |
| 41 | Energy density functional on a microscopic basis. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010, 37, 064015. | 3.6 | 31 |
| 42 | Semiclassical approach to the description of semi-infinite nuclear matter in relativistic mean-field theory. <i>Nuclear Physics A</i> , 1993, 563, 173-204. | 1.5 | 27 |
| 43 | Nuclear surface properties in relativistic effective field theory. <i>Nuclear Physics A</i> , 1999, 650, 443-468. | 1.5 | 27 |
| 44 | Moment of inertia of a trapped superfluid gas of atomic fermions. <i>Physical Review A</i> , 2000, 62, . | 2.5 | 27 |
| 45 | Calculation of interaction potentials between two heavy ions at finite temperature. <i>Nuclear Physics A</i> , 1982, 389, 69-79. | 1.5 | 26 |
| 46 | Electronic structure determination of iron(II) phthalocyanine via magnetic susceptibility and Mössbauer measurements. <i>Journal of Chemical Physics</i> , 1984, 80, 444-448. | 3.0 | 26 |
| 47 | Thomas-Fermi approximation for Bose-Einstein condensates in traps. <i>Physical Review A</i> , 2000, 61, . | 2.5 | 26 |
| 48 | Nuclear pairing: Surface or bulk?. <i>Physical Review C</i> , 2005, 71, . | 2.9 | 26 |
| 49 | Thomas-Fermi theory for atomic nuclei revisited. <i>Annals of Physics</i> , 2007, 322, 363-396. | 2.8 | 26 |
| 50 | Simple effective interaction: infinite nuclear matter and finite nuclei. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013, 40, 095105. | 3.6 | 25 |
| 51 | Symmetry energy of warm nuclear systems. <i>European Physical Journal A</i> , 2014, 50, 1. | 2.5 | 23 |
| 52 | Isospin-rich nuclei in neutron star matter. <i>Physical Review C</i> , 2002, 66, . | 2.9 | 22 |
| 53 | Deformation properties of the Barcelona-Catania-Paris (BCP) energy density functional. <i>Physical Review C</i> , 2008, 77, . | 2.9 | 22 |
| 54 | Electron scattering in isotonic chains as a probe of the proton shell structure of unstable nuclei. <i>Physical Review C</i> , 2013, 87, . | 2.9 | 22 |

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| 55 | Core-crust transition in neutron stars with finite-range interactions: The dynamical method. <i>Physical Review C</i> , 2019, 100, . | 2.9 | 22 |
| 56 | The surface tension of liquid ^3He above 200 mK: A density functional approach. <i>Journal of Low Temperature Physics</i> , 1990, 80, 77-88. | 1.4 | 21 |
| 57 | A density functional model for the surface properties of liquid ^4He . <i>Journal of Physics Condensed Matter</i> , 1992, 4, 667-678. | 1.8 | 21 |
| 58 | On the nuclear curvature energy. <i>Zeitschrift für Physik A</i> , 1993, 346, 87-100. | 0.9 | 20 |
| 59 | Semiclassical evaluation of average nuclear one- and two-body matrix elements. <i>Physical Review C</i> , 2003, 67, . | 2.9 | 20 |
| 60 | Microscopic-macroscopic approach for binding energies with the Wigner-Kirkwood method. II. Deformed nuclei. <i>Physical Review C</i> , 2012, 86, . | 2.9 | 20 |
| 61 | A variational Wigner-Kirkwood theory of finite nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 302, 1-6. | 4.1 | 19 |
| 62 | Influence of the single-particle structure on the nuclear surface and the neutron skin. <i>Physical Review C</i> , 2014, 89, . | 2.9 | 19 |
| 63 | Exact versus Taylor-expanded energy density in the study of the neutron star crustâ€‘core transition. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016, 43, 105101. | 3.6 | 19 |
| 64 | Deformation properties with a finite-range simple effective interaction. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016, 43, 045115. | 3.6 | 19 |
| 65 | Density dependence of the symmetry free energy of hot nuclei. <i>Physical Review C</i> , 2008, 78, . | 2.9 | 18 |
| 66 | Real part of the nuclear interaction potential between ^1H or p and excited heavy nuclei. <i>Nuclear Physics A</i> , 1983, 401, 143-156. | 1.5 | 17 |
| 67 | Variational Wignerâ€‘Kirkwood expansion. <i>Annals of Physics</i> , 1998, 266, 207-243. | 2.8 | 17 |
| 68 | From the crust to the core of neutron stars on a microscopic basis. <i>Physics of Atomic Nuclei</i> , 2014, 77, 1157-1165. | 0.4 | 17 |
| 69 | Barcelona-Catania-Paris-Madrid functional with a realistic effective mass. <i>Physical Review C</i> , 2017, 95, . | 2.9 | 17 |
| 70 | Structure and composition of the inner crust of neutron stars from Gogny interactions. <i>Physical Review C</i> , 2020, 102, . | 2.9 | 17 |
| 71 | Nuclei beyond the drip line. <i>Physical Review C</i> , 2001, 64, . | 2.9 | 16 |
| 72 | The influence of the symmetry energy on the giant monopole resonance of neutron-rich nuclei analyzed in Thomasâ€‘Fermi theory. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010, 37, 075107. | 3.6 | 15 |

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|----|--|-----|-----------|
| 73 | Study of spin polarized nuclear matter and finite nuclei with finite range simple effective interaction. Journal of Physics G: Nuclear and Particle Physics, 2015, 42, 045103. | 3.6 | 15 |
| 74 | Estimation of temperature effects on fission barriers. Physical Review C, 1982, 26, 733-735. | 2.9 | 14 |
| 75 | The charge and matter distributions of ^{208}Pb . Journal of Physics G: Nuclear Physics, 1983, 9, 423-441. | 0.8 | 14 |
| 76 | Scaling calculation of isoscalar giant resonances in relativistic Thomas-Fermi theory. Nuclear Physics A, 2002, 703, 240-268. | 1.5 | 14 |
| 77 | Generic finite-size enhancement of pairing in mesoscopic Fermi systems. Physical Review B, 2003, 68, . | 3.2 | 14 |
| 78 | Average ground-state energy of finite Fermi systems. Physical Review C, 2006, 74, . | 2.9 | 14 |
| 79 | GW170817 constraints analyzed with Gogny forces and momentum-dependent interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135306. | 4.1 | 14 |
| 80 | Double folding with a density-dependent effective interaction and its analytical approximation. Physical Review C, 1981, 23, 780-786. | 2.9 | 13 |
| 81 | The fission of hot rotating nuclei: A selfconsistent thomas-fermi calculation. Nuclear Physics A, 1989, 495, 169-184. | 1.5 | 13 |
| 82 | Nuclear expansion with excitation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 638, 160-165. | 4.1 | 13 |
| 83 | Unified Equation of State for Neutron Stars Based on the Gogny Interaction. Symmetry, 2021, 13, 1613. | 2.2 | 13 |
| 84 | Thermostatic properties of semi-infinite symmetric nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 124, 131-134. | 4.1 | 12 |
| 85 | Density matrix functional theory that includes pairing correlations. Physical Review C, 2006, 74, . | 2.9 | 12 |
| 86 | Nuclear scissors mode with pairing. Physics of Atomic Nuclei, 2008, 71, 1012-1030. | 0.4 | 12 |
| 87 | Title is missing!. Acta Physica Polonica B, 2012, 43, 209. | 0.8 | 12 |
| 88 | Image force for a particle moving near a solid surface. Journal of Physics C: Solid State Physics, 1979, 12, L111-L114. | 1.5 | 11 |
| 89 | Semiclassical approach to static and dynamic aspects of fermions in a harmonic well. Nuclear Physics A, 1987, 464, 326-348. | 1.5 | 11 |
| 90 | \hat{h}_4 -order variational Thomas-Fermi calculations of finite nuclei: The local case. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 215, 5-9. | 4.1 | 11 |

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|-----|---|-----|-----------|
| 91 | Relativistic extended Thomas-Fermi calculations of finite nuclei with realistic nucleon-nucleon interactions. <i>Physical Review C</i> , 1993, 47, 1091-1102. | 2.9 | 11 |
| 92 | Nuclear incompressibility in the quasiloca density functional theory. <i>Physical Review C</i> , 2004, 69, . | 2.9 | 11 |
| 93 | Suppression of Superfluidity upon Overflow of Trapped Fermions: Quantal and Thomas-Fermi Studies. <i>Physical Review Letters</i> , 2011, 107, 205301. | 7.8 | 11 |
| 94 | Pasta-phase Transitions in the Inner Crust of Neutron Stars. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2017, 10, 259. | 0.1 | 11 |
| 95 | Symmetry coefficients and incompressibility of clusterized supernova matter. <i>Physical Review C</i> , 2009, 80, . | 2.9 | 10 |
| 96 | Wigner-Kirkwood expansion of the phase-space density for semi-infinite nuclear matter. <i>Physical Review A</i> , 1987, 36, 1824-1833. | 2.5 | 9 |
| 97 | Sum rule approach to the isoscalar giant monopole resonance in drip line nuclei. <i>Physical Review C</i> , 2005, 72, . | 2.9 | 9 |
| 98 | Density reorganization in hot nuclei. <i>Physical Review C</i> , 2007, 75, . | 2.9 | 9 |
| 99 | Peninsulas of the neutron stability of nuclei in the vicinity of neutron magic numbers. <i>Physics of Atomic Nuclei</i> , 2012, 75, 17-26. | 0.4 | 9 |
| 100 | Nucleon currents between highly excited nuclei. <i>Nuclear Physics A</i> , 1983, 406, 325-338. | 1.5 | 8 |
| 101 | Spectral and thermodynamical properties of symmetric nuclear matter with Gogny interaction. <i>Nuclear Physics A</i> , 1994, 578, 147-167. | 1.5 | 8 |
| 102 | One-particle exchange in the double-folded potential in a semiclassical approximation. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1999, 25, 2087-2106. | 3.6 | 8 |
| 103 | Thomas-Fermi approximation to pairing in finite Fermi systems. The weak coupling regime. <i>Journal of Physics: Conference Series</i> , 2011, 321, 012024. | 0.4 | 8 |
| 104 | Density dependence of the symmetry energy from neutron skin thickness in finite nuclei. , 2012, , . | | 8 |
| 105 | STABILITY PENINSULAS ON THE NEUTRON DRIP LINE. <i>International Journal of Modern Physics E</i> , 2013, 22, 1350009. | 1.0 | 8 |
| 106 | Relativistic extended Thomas-Fermi calculations of finite nuclei. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1991, 17, L193-L199. | 3.6 | 7 |
| 107 | Thermodynamic instabilities of nuclear matter at finite temperature with finite range effective interactions. <i>Nuclear Physics A</i> , 1992, 545, 247-257. | 1.5 | 7 |
| 108 | Nuclear ground-state properties and ion-ion potentials in semiclassical calculations with the Gogny force. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1995, 21, 947-963. | 3.6 | 7 |

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| 109 | Scaling in relativistic Thomas-Fermi approach for nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 523, 67-72. | 4.1 | 7 |
| 110 | SEMICLASSICAL DESCRIPTION OF EXOTIC NUCLEAR SHAPES. International Journal of Modern Physics E, 2008, 17, 177-189. | 1.0 | 7 |
| 111 | Influence of the nuclear matter equation of state on the r -mode instability using the finite-range simple effective interaction. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 055202. | 3.6 | 7 |
| 112 | Transverse Josephson vortices and localized states in stacked Bose-Einstein condensates. New Journal of Physics, 2019, 21, 043036. | 2.9 | 7 |
| 113 | Thermostatic properties of semi-infinite nuclear matter. II. The asymmetric case. Journal of Physics G: Nuclear Physics, 1983, 9, 1193-1198. | 0.8 | 6 |
| 114 | Nuclear curvature energy in relativistic models. Physical Review C, 1996, 53, 1018-1021. | 2.9 | 6 |
| 115 | Cooper pair sizes in superfluid nuclei in a simplified model. Physical Review C, 2010, 82, . | 2.9 | 6 |
| 116 | SEMICLASSICAL DESCRIPTION OF AVERAGE PAIRING PROPERTIES IN NUCLEI. International Journal of Modern Physics E, 2011, 20, 399-405. | 1.0 | 6 |
| 117 | The peninsula of neutron nuclear stability in the vicinity of $N = 258$. Bulletin of the Russian Academy of Sciences: Physics, 2012, 76, 876-880. | 0.6 | 6 |
| 118 | Nucleon currents between highly excited nuclei. Nuclear Physics A, 1984, 426, 163-180. | 1.5 | 5 |
| 119 | Variational Wigner-Kirkwood approach to relativistic mean field theory. Physical Review C, 1997, 56, 1774-1781. | 2.9 | 5 |
| 120 | Twist mode in atomic Fermi gases. Physical Review A, 2001, 64, . | 2.5 | 5 |
| 121 | DEFORMED NUCLEI USING THE BARCELONA-CATANIA-PARIS ENERGY DENSITY FUNCTIONAL. International Journal of Modern Physics E, 2009, 18, 935-943. | 1.0 | 5 |
| 122 | WIGNER-KIRKWOOD METHOD FOR MICROSCOPIC-MACROSCOPIC CALCULATION OF BINDING ENERGIES. International Journal of Modern Physics E, 2010, 19, 747-758. | 1.0 | 5 |
| 123 | Peninsula of neutron stability of nuclei in the neighborhood of neutron magic number $N = 126$. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 842-848. | 0.6 | 5 |
| 124 | Woods-Saxon type of mean-field potentials with effective mass derived from the D1S Gogny force. Physical Review C, 2021, 103, . | 2.9 | 5 |
| 125 | Finite-size instabilities in finite-range forces. Physical Review C, 2021, 103, . | 2.9 | 5 |
| 126 | Reexamination of the N and Z shell closure. Physical Review C, 2021, 104, . | 2.9 | 5 |

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|-----|---|-----|-----------|
| 127 | Bulk properties of hot dense nuclear matter: To what extent are the results dependent on the forces?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1981, 100, 209-212. | 4.1 | 4 |
| 128 | Heavy-ion optical potentials at finite temperature calculated using a complex effective interaction derived from a realistic force. Nuclear Physics A, 1984, 414, 309-315. | 1.5 | 4 |
| 129 | Nucleon transfer contribution to the imaginary nucleus-nucleus potential. Nuclear Physics A, 1986, 455, 561-572. | 1.5 | 4 |
| 130 | Helium clusters at finite temperature. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1995, 35, 199-216. | 1.0 | 4 |
| 131 | Effects of medium on nuclear properties in multifragmentation. Physical Review C, 2012, 86, . | 2.9 | 4 |
| 132 | NEUTRON SKIN THICKNESS IN NEUTRON-RICH NUCLEI: BULK AND SURFACE CONTRIBUTIONS AND SHELL EFFECTS. International Journal of Modern Physics E, 2012, 21, 1250029. | 1.0 | 4 |
| 133 | Thomas-Fermi Studies of Pairing in Inhomogeneous Systems: Nuclear and Cold Atom Systems at Overflow. , 2013, , 212-226. | | 4 |
| 134 | Influence of direct Urca on the r-mode spin down features of newborn neutron star pulsars. Physica Scripta, 2021, 96, 045301. | 2.5 | 4 |
| 135 | Microscopic-macroscopic approach for ground-state energies based on the Gogny force with the Wigner-Kirkwood averaging scheme. Physical Review C, 2021, 103, . | 2.9 | 4 |
| 136 | The Modified D1M Interactions: New Gogny Forces Adapted for Neutron Star Calculations. Acta Physica Polonica B, Proceedings Supplement, 2019, 12, 705. | 0.1 | 4 |
| 137 | Nucleon-nucleus optical potential computed with the Gogny interaction. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 035104. | 3.6 | 4 |
| 138 | Leptodermous distributions versus non-saturating forces. Nuclear Physics A, 1975, 240, 109-119. | 1.5 | 3 |
| 139 | Relativistic Thomas-Fermi description of collective modes in droplets of nuclear matter. Physical Review C, 1996, 54, 2525-2537. | 2.9 | 3 |
| 140 | Dynamic and quasistatic trajectories in quasifission reactions and particle emission. Nuclear Physics A, 2001, 679, 441-461. | 1.5 | 3 |
| 141 | Fission properties of the Barcelona-Catania-Paris energy density functional. Journal of Physics: Conference Series, 2011, 321, 012015. | 0.4 | 3 |
| 142 | An effective Nuclear Model: from Nuclear Matter to Finite Nuclei. Journal of Physics: Conference Series, 2013, 420, 012114. | 0.4 | 3 |
| 143 | Pairing correlations of cold fermionic gases at overflow from a narrow to a wide harmonic trap. Physical Review A, 2014, 90, . | 2.5 | 3 |
| 144 | Investigation of the properties of nuclei with extreme neutron excess in the vicinity of neutron magic numbers. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 569-575. | 0.6 | 3 |

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|-----|--|-----|-----------|
| 145 | Applications to nuclear properties of the microscopic macroscopic model based on the semiclassical Wigner-Kirkwood method. <i>Physica Scripta</i> , 2015, 90, 114001. | 2.5 | 3 |
| 146 | The Determination of the Bulk Symmetry Incompressibility from the Isoscalar Giant Monopole Resonance Revisited. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2015, 8, 707. | 0.1 | 3 |
| 147 | Friction, imaginary potential and nucleon jetting calculated from nucleon currents in semi-infinite nuclear matter. <i>Nuclear Physics A</i> , 1984, 428, 239-254. | 1.5 | 2 |
| 148 | Self-consistent versus experimental densities in the ion-ion potential derived using the energy density formalism. <i>Nuclear Physics A</i> , 1992, 542, 113-130. | 1.5 | 2 |
| 149 | Thomas-Fermi approximation to static vortex states in superfluid trapped atomic gases. <i>European Physical Journal D</i> , 2003, 27, 147-157. | 1.3 | 2 |
| 150 | Microscopic description of the twist mode in normal and superfluid trapped Fermi gases. <i>Physical Review A</i> , 2005, 71, . | 2.5 | 2 |
| 151 | QUASILocal DENSITY FUNCTIONAL THEORY FOR NUCLEI INCLUDING PAIRING CORRELATIONS. <i>International Journal of Modern Physics E</i> , 2007, 16, 249-262. | 1.0 | 2 |
| 152 | Investigating the neutron and proton density distributions in extremely neutron-rich nuclei. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012, 76, 871-875. | 0.6 | 2 |
| 153 | Density dependence of the nuclear symmetry energy from measurements of neutron radii in nuclei. , 2014, , . | | 2 |
| 154 | Remarks on the proximity scaling applied to heavy ion interaction potentials. <i>Journal De Physique (Paris), Lettres</i> , 1983, 44, 685-688. | 2.8 | 2 |
| 155 | Potential screening effects from support films in electron microscopy. <i>Journal Physics D: Applied Physics</i> , 1980, 13, L115-L118. | 2.8 | 1 |
| 156 | Magnetic susceptibility calculations from crystal field theory for high spin ferric complexes of | 3.0 | 1 |
| 157 | 4-Order Thomas-Fermi variational calculations of finite nuclei. <i>Nuclear Physics A</i> , 1989, 495, 201-208. | 1.5 | 1 |
| 158 | Comment on "Influence of bulk properties on the surface structure of finite nuclei". <i>Physical Review C</i> , 1994, 49, 2852-2853. | 2.9 | 1 |
| 159 | Extended Thomas - Fermi expansion from nuclear linear response. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1996, 22, 1363-1371. | 3.6 | 1 |
| 160 | COLD NEUTRON AND NUCLEAR MATTER WITH EFFECTIVE AND REALISTIC INTERACTIONS. <i>International Journal of Modern Physics E</i> , 1996, 05, 353-364. | 1.0 | 1 |
| 161 | A semiclassical approach to the double folded ion - ion potential. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1996, 22, 497-504. | 3.6 | 1 |
| 162 | Deuteron ground state properties and low energy P-N scattering 1 S 0 and 3 S 1 channels. <i>European Physical Journal A</i> , 1999, 6, 21-27. | 2.5 | 1 |

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|-----|---|-----|-----------|
| 163 | Double-folding model including the Pauli exclusion principle. Physics of Atomic Nuclei, 2002, 65, 707-712. | 0.4 | 1 |
| 164 | Semiclassical and statistical description of the nuclear Fermi liquid drop. Physics of Atomic Nuclei, 2002, 65, 731-735. | 0.4 | 1 |
| 165 | Quasiloca density functional theory in nuclei and its extension to include pairing correlations. Physics of Atomic Nuclei, 2006, 69, 1207-1214. | 0.4 | 1 |
| 166 | Study of the neutron skin thickness of ^{208}Pb in mean field models. Journal of Physics: Conference Series, 2011, 321, 012052. | 0.4 | 1 |
| 167 | Resonance capture of multineutrons by the ^{88}Sr and ^{27}Al nuclei. JETP Letters, 2015, 102, 321-323. | 1.4 | 1 |
| 168 | Evaluation of the nucleus-nucleus potential calculated in the sudden approximation. Journal of Physics G: Nuclear Physics, 1983, 9, 1367-1376. | 0.8 | 0 |
| 169 | Fermion dynamics with antisymmetrised coherent states. Nuclear Physics A, 1992, 545, 105-110. | 1.5 | 0 |
| 170 | Level density parameter in relativistic models. Nuclear Physics A, 1994, 567, 611-625. | 1.5 | 0 |
| 171 | Semiclassical description of the relativistic nuclear mean field theory. , 1995, , 115-129. | | 0 |
| 172 | Statistical description of the nuclear fermi liquid drop. European Physical Journal D, 1998, 48, 789-798. | 0.4 | 0 |
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