

Giuseppina Fiorella Burgio

List of Publications by Year in descending order

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3,807
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126907

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128289

60
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docs citations

98
times ranked

1720
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Hyperon stars in the Brueckner-Bethe-Goldstone theory. Physical Review C, 2000, 61, . | 2.9 | 284 |
| 2 | The nuclear symmetry energy. Progress in Particle and Nuclear Physics, 2016, 91, 203-258. | 14.4 | 203 |
| 3 | Hadron-quark phase transition in dense matter and neutron stars. Physical Review C, 2002, 66, . | 2.9 | 187 |
| 4 | Onset of hyperon formation in neutron star matter from Brueckner theory. Physical Review C, 1998, 58, 3688-3695. | 2.9 | 142 |
| 5 | Neutron stars and the transition to color superconducting quark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 562, 153-160. | 4.1 | 139 |
| 6 | Three-body forces and neutron star structure. Physical Review C, 2004, 69, . | 2.9 | 138 |
| 7 | The data acquisition system for the ANTARES neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 570, 107-116. | 1.6 | 138 |
| 8 | Unified equation of state for neutron stars on a microscopic basis. Astronomy and Astrophysics, 2015, 584, A103. | 5.1 | 117 |
| 9 | Transmission of light in deep sea water at the site of the Antares neutrino telescope. Astroparticle Physics, 2005, 23, 131-155. | 4.3 | 101 |
| 10 | First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. Astroparticle Physics, 2006, 26, 314-324. | 4.3 | 99 |
| 11 | Constraining and applying a generic high-density equation of state. Physical Review D, 2015, 92, . | 4.7 | 98 |
| 12 | Are Small Radii of Compact Stars Ruled out by GW170817/AT2017gfo?. Astrophysical Journal, 2018, 860, 139. | 4.5 | 91 |
| 13 | Properties of the nuclear medium. Reports on Progress in Physics, 2012, 75, 026301. | 20.1 | 88 |
| 14 | Hybrid stars with the color dielectric and the MIT bag models. Physical Review D, 2004, 70, . | 4.7 | 77 |
| 15 | Maximum mass of neutron stars with a quark core. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 19-26. | 4.1 | 76 |
| 16 | Hyperon stars at finite temperature in the Brueckner theory. Physical Review C, 2011, 83, . | 2.9 | 76 |
| 17 | Dynamical clusterization in the presence of instabilities. Physical Review Letters, 1992, 69, 885-888. | 7.8 | 72 |
| 18 | Study of large hemispherical photomultiplier tubes for the ANTARES neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 555, 132-141. | 1.6 | 71 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Hybrid protoneutron stars with the MIT bag model. <i>Physical Review D</i> , 2006, 74, . | 4.7 | 70 |
| 20 | Hybrid stars with the Dyson-Schwinger quark model. <i>Physical Review D</i> , 2011, 84, . | 4.7 | 63 |
| 21 | The ANTARES optical beacon system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 578, 498-509. | 1.6 | 61 |
| 22 | Nucleon effective masses within the Brueckner-Hartree-Fock theory: Impact on stellar neutrino emission. <i>Physical Review C</i> , 2014, 89, . | 2.9 | 57 |
| 23 | Selecting microscopic equations of state. <i>Physical Review C</i> , 2013, 87, . | 2.9 | 56 |
| 24 | Quark matter in neutron stars within the Nambu-Jona-Lasinio model and confinement. <i>Physical Review C</i> , 2007, 75, . | 2.9 | 54 |
| 25 | The maximum and minimum mass of protoneutron stars in the Brueckner theory. <i>Astronomy and Astrophysics</i> , 2010, 518, A17. | 5.1 | 50 |
| 26 | Performance of the first ANTARES detector line. <i>Astroparticle Physics</i> , 2009, 31, 277-283. | 4.3 | 47 |
| 27 | Galactic discrete sources of high energy neutrinos. <i>New Astronomy Reviews</i> , 2005, 49, 1-21. | 12.8 | 46 |
| 28 | Simulating the Langevin force by simple noise in nuclear one-body dynamics. <i>Physical Review C</i> , 1993, 47, 1395-1400. | 2.9 | 44 |
| 29 | Dark compact objects: An extensive overview. <i>Physical Review D</i> , 2019, 99, . | 4.7 | 43 |
| 30 | Protoneutron stars within the Brueckner-Bethe-Goldstone theory. <i>Astronomy and Astrophysics</i> , 2006, 451, 213-222. | 5.1 | 41 |
| 31 | Neutron star universal relations with microscopic equations of state. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 034001. | 3.6 | 39 |
| 32 | Hybrid protoneutron stars with the Dyson-Schwinger quark model. <i>Physical Review D</i> , 2012, 86, . | 4.7 | 38 |
| 33 | Nuclear Equation of State for Compact Stars and Supernovae. <i>Astrophysics and Space Science Library</i> , 2018, , 255-335. | 2.7 | 38 |
| 34 | Thermal states of neutron stars with a consistent model of interior. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 5010-5022. | 4.4 | 32 |
| 35 | Hybrid neutron stars with the Dyson-Schwinger quark model and various quark-gluon vertices. <i>Physical Review D</i> , 2015, 91, . | 4.7 | 31 |
| 36 | Oscillations of hot, young neutron stars: Gravitational wave frequencies and damping times. <i>Physical Review D</i> , 2011, 84, . | 4.7 | 30 |

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| 37 | Hot neutron stars with microscopic equations of state. <i>Physical Review C</i> , 2019, 100, . | 2.9 | 29 |
| 38 | Hybrid equation of state approach in binary neutron-star merger simulations. <i>Physical Review D</i> , 2020, 102, . | 4.7 | 29 |
| 39 | Are nuclear matter properties correlated to neutron star observables?. <i>European Physical Journal A</i> , 2020, 56, 1. | 2.5 | 29 |
| 40 | Fluctuations in nuclear dynamics: Comparison of different methods. <i>Nuclear Physics A</i> , 1992, 540, 227-260. | 1.5 | 27 |
| 41 | Protoneutron stars in the Brueckner-Hartree-Fock approach and finite-temperature kaon condensation. <i>Physical Review C</i> , 2010, 81, . | 2.9 | 27 |
| 42 | Cassiopeia A and direct Urca cooling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 1451-1458. | 4.4 | 27 |
| 43 | The neutron star in Cassiopeia A: equation of state, superfluidity, and Joule heating. <i>Astronomy and Astrophysics</i> , 2014, 561, L5. | 5.1 | 26 |
| 44 | Dynamics of fragment formation in the nuclear spinodal region. <i>Physical Review C</i> , 1995, 51, 198-211. | 2.9 | 24 |
| 45 | Structure of the hadron-quark mixed phase in protoneutron stars. <i>Astronomy and Astrophysics</i> , 2013, 551, A13. | 5.1 | 23 |
| 46 | Microscopic three-body forces and kaon condensation in cold neutrino-trapped matter. <i>Physical Review C</i> , 2006, 74, . | 2.9 | 22 |
| 47 | Astrophysical constraints on the confining models: The field correlator method. <i>Physical Review D</i> , 2008, 78, . | 4.7 | 22 |
| 48 | Quark matter in neutron stars within the field correlator method. <i>Physical Review D</i> , 2013, 88, . | 4.7 | 22 |
| 49 | The Equation of State of Nuclear Matter: From Finite Nuclei to Neutron Stars. <i>Universe</i> , 2020, 6, 119. | 2.5 | 22 |
| 50 | Nucleon effective mass in hot dense matter. <i>Physical Review C</i> , 2020, 101, . | 2.9 | 22 |
| 51 | Non-linear mean field dynamics in the nuclear spinodal zone. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 321, 307-311. | 4.1 | 21 |
| 52 | Radial Modes of Neutron Stars with a Quark Core. <i>Astrophysical Journal</i> , 2002, 566, L89-L92. | 4.5 | 19 |
| 53 | On the maximum rotational frequency of neutron and hybrid stars. <i>Astronomy and Astrophysics</i> , 2003, 408, 675-680. | 5.1 | 18 |
| 54 | TeV Neutrinos from Young Neutron Stars. <i>Physical Review Letters</i> , 2005, 94, 181101. | 7.8 | 18 |

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| 55 | Structure of hybrid protoneutron stars within the Nambu–Jona-Lasinio model. <i>Physical Review D</i> , 2008, 77, . | 4.7 | 18 |
| 56 | Nuclear matter equation of state from a quark-model nucleon-nucleon interaction. <i>Physical Review C</i> , 2015, 92, . | 2.9 | 18 |
| 57 | Neutron star cooling with microscopic equations of state. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 5162-5169. | 4.4 | 18 |
| 58 | Chaoticity in vibrating nuclear billiards. <i>Physical Review C</i> , 1995, 52, 2475-2479. | 2.9 | 17 |
| 59 | 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 |
| 60 | Hybrid star structure with the Field Correlator Method. <i>European Physical Journal A</i> , 2016, 52, 1. | 2.5 | 17 |
| 61 | Equation of state and radial oscillations of neutron stars. <i>Physical Review D</i> , 2021, 103, . | 4.7 | 16 |
| 62 | A Modern View of the Equation of State in Nuclear and Neutron Star Matter. <i>Symmetry</i> , 2021, 13, 400. | 2.2 | 14 |
| 63 | Studies of a full-scale mechanical prototype line for the ANTARES neutrino telescope and tests of a prototype instrument for deep-sea acoustic measurements. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 581, 695-708. | 1.6 | 13 |
| 64 | One-body dissipation and chaotic dynamics in a classical simulation of a nuclear gas. <i>Physical Review C</i> , 1998, 58, 2821-2830. | 2.9 | 12 |
| 65 | Isothermal vs. isentropic description of protoneutron stars in the Brueckner-Bethe-Goldstone theory. <i>Physics of Atomic Nuclei</i> , 2009, 72, 1197-1202. | 0.4 | 12 |
| 66 | Hadron-quark phase transitions in hyperon stars. <i>Physics of Atomic Nuclei</i> , 2011, 74, 1502-1507. | 0.4 | 12 |
| 67 | Phase space model of hard-photon production in heavy-ion collisions. <i>Il Nuovo Cimento A</i> , 1990, 103, 309-316. | 0.2 | 11 |
| 68 | Flux predictions of high-energy neutrinos from pulsars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 371, 375-379. | 4.4 | 11 |
| 69 | Rotating hybrid stars with the Dyson-Schwinger quark model. <i>Physical Review D</i> , 2017, 96, . | 4.7 | 11 |
| 70 | Binary neutron star merger simulations with hot microscopic equations of state. <i>Physical Review D</i> , 2021, 103, . | 4.7 | 11 |
| 71 | Simulation of transport equations for unstable systems: Comparison between lattice and test-particle methods. <i>Nuclear Physics A</i> , 1995, 581, 356-372. | 1.5 | 10 |
| 72 | Chaos vs linear instability in the Vlasov equation: A fractal analysis characterization. <i>Physical Review C</i> , 1996, 53, 2556-2559. | 2.9 | 10 |

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| 73 | A microscopic equation of state for proton-neutron stars. <i>Astrophysics and Space Science</i> , 2007, 308, 387-394. | 1.4 | 10 |
| 74 | On the change of old neutron star masses with galactocentric distance. <i>Physics of the Dark Universe</i> , 2020, 28, 100484. | 4.9 | 10 |
| 75 | Collisional width of giant resonances and interplay with Landau damping. <i>Physical Review C</i> , 1989, 39, 2385-2389. | 2.9 | 9 |
| 76 | Cooling of hybrid neutron stars with microscopic equations of state. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 344-354. | 4.4 | 9 |
| 77 | Hot neutron stars and their equation of state. <i>Physical Review C</i> , 2021, 104, . | 2.9 | 8 |
| 78 | Accurate nuclear symmetry energy at finite temperature within a Brueckner-Hartree-Fock approach. <i>Physical Review C</i> , 2021, 103, . | 2.9 | 7 |
| 79 | The hadron-quark phase transition in neutron stars. <i>Nuclear Physics A</i> , 2005, 749, 337-340. | 1.5 | 6 |
| 80 | EXOTIC PHASES IN NEUTRON STARS. <i>International Journal of Modern Physics E</i> , 2008, 17, 1635-1647. | 1.0 | 6 |
| 81 | Nuclear Pairing Gaps and Neutron Star Cooling. <i>Universe</i> , 2020, 6, 115. | 2.5 | 5 |
| 82 | Beyond linear response theory in multifragmentation. <i>Nuclear Physics A</i> , 1995, 583, 343-346. | 1.5 | 4 |
| 83 | Generalized entropy and temperature in nuclear multifragmentation. <i>Physical Review C</i> , 1998, 58, 2238-2248. | 2.9 | 4 |
| 84 | The equation of state of dense matter: from nuclear collisions to neutron stars. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008, 35, 014048. | 3.6 | 4 |
| 85 | Cluster formation by a simple noise. <i>Progress in Particle and Nuclear Physics</i> , 1993, 30, 185-186. | 14.4 | 2 |
| 86 | THE BETHE-BRUECKNER-GOLDSTONE THEORY OF THE NUCLEAR EQUATION OF STATE AND NEUTRON STARS. <i>International Journal of Modern Physics B</i> , 2003, 17, 5127-5137. | 2.0 | 2 |
| 87 | Publisher's Note: TeV Neutrinos from Young Neutron Stars [Phys. Rev. Lett. 94, 181101 (2005)]. <i>Physical Review Letters</i> , 2005, 94, . | 7.8 | 2 |
| 88 | A Unified Equation of State on a Microscopic Basis : Implications for Neutron Stars Structure and Cooling. <i>Journal of Physics: Conference Series</i> , 2018, 981, 012012. | 0.4 | 2 |
| 89 | Production of high-energy neutrinos from young neutron stars. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007, 165, 231-236. | 0.4 | 1 |
| 90 | Neutron Star masses from the Field Correlator Method Equation of State. <i>EPJ Web of Conferences</i> , 2014, 71, 00143. | 0.3 | 1 |

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| 91 | Neutron star structure from a quark-model baryon-baryon interaction. EPJ Web of Conferences, 2016, 117, 09006. | 0.3 | 1 |
| 92 | The equation of state at finite temperature: Structure and composition of protoneutron stars. Journal of Physics: Conference Series, 2016, 665, 012062. | 0.4 | 1 |
| 93 | NEUTRON STARS IN THE RELATIVISTIC HARTREE-FOCK THEORY AND HADRON-QUARK PHASE TRANSITION. , 2008, , . | | 1 |
| 94 | High energy neutrino emission from young pulsars. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 567, 486-488. | 1.6 | 0 |
| 95 | Constraints on modern microscopic equations of state. Journal of Physics: Conference Series, 2016, 665, 012064. | 0.4 | 0 |
| 96 | The CSS parametrization for Hybrid Stars with the Field Correlator Method. Journal of Physics: Conference Series, 2017, 861, 012011. | 0.4 | 0 |
| 97 | A microscopical equation of state for protoneutron stars. , 2007, , 387-394. | | 0 |
| 98 | HYBRID NEUTRON STARS WITHIN THE NAMBU-JONA-LASINIO MODEL AND CONFINEMENT. , 2008, , . | | 0 |