Giuseppina Fiorella Burgio

List of Publications by Citations

95 papers	3,127 citations	30 h-index	53 g-index
98 ext. papers	3,479 ext. citations	3.4 avg, IF	5.43 L-index

#	Paper	IF	Citations
95	Hyperon stars in the Brueckner-Bethe-Goldstone theory. *Physical Review C*, **2000**, 61,	2.7	240
94	Hadron-quark phase transition in dense matter and neutron stars. *Physical Review C*, **2002**, 66,	2.7	156
93	The nuclear symmetry energy. *Progress in Particle and Nuclear Physics*, **2016**, 91, 203-258	10.6	145
92	Onset of hyperon formation in neutron star matter from Brueckner theory. *Physical Review C*, **1998**, 58, 3688-3695	2.7	135
91	Three-body forces and neutron star structure. *Physical Review C*, **2004**, 69,	2.7	127
90	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	4.2	118
89	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	1.2	113
88	Unified equation of state for neutron stars on a microscopic basis. *Astronomy and Astrophysics*, **2015**, 584, A103	5.1	90
87	Properties of the nuclear medium. *Reports on Progress in Physics*, **2012**, 75, 026301	14.4	80
86	Transmission of light in deep sea water at the site of the Antares neutrino telescope. *Astroparticle Physics*, **2005**, 23, 131-155	2.4	79
85	Are Small Radii of Compact Stars Ruled out by GW170817/AT2017gfo?. *Astrophysical Journal*, **2018**, 860, 139	4.7	79
84	First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. *Astroparticle Physics*, **2006**, 26, 314-324	2.4	76
83	Constraining and applying a generic high-density equation of state. *Physical Review D*, **2015**, 92,	4.9	75
82	Dynamical clusterization in the presence of instabilities. *Physical Review Letters*, **1992**, 69, 885-888	7.4	69
81	Hybrid stars with the color dielectric and the MIT bag models. *Physical Review D*, **2004**, 70,	4.9	68
80	Hyperon stars at finite temperature in the Brueckner theory. *Physical Review C*, **2011**, 83,	2.7	65
79	Hybrid protoneutron stars with the MIT bag model. *Physical Review D*, **2006**, 74,	4.9	63

78	Maximum mass of neutron stars with a quark core. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **2002**, 526, 19-26	4.2	62
77	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	1.2	61
76	Selecting microscopic equations of state. *Physical Review C*, **2013**, 87,	2.7	52
75	Hybrid stars with the Dyson-Schwinger quark model. *Physical Review D*, **2011**, 84,	4.9	52
74	Nucleon effective masses within the Brueckner-Hartree-Fock theory: Impact on stellar neutrino emission. *Physical Review C*, **2014**, 89,	2.7	49
73	The ANTARES optical beacon system. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2007**, 578, 498-509	1.2	49
72	Quark matter in neutron stars within the Nambu-Jona-Lasinio model and confinement. *Physical Review C*, **2007**, 75,	2.7	48
71	The maximum and minimum mass of protoneutron stars in the Brueckner theory. *Astronomy and Astrophysics*, **2010**, 518, A17	5.1	43
70	Galactic discrete sources of high energy neutrinos. *New Astronomy Reviews*, **2005**, 49, 1-21	7.9	43
69	Simulating the Langevin force by simple noise in nuclear one-body dynamics. *Physical Review C*, **1993**, 47, 1395-1400	2.7	43
68	Protoneutron stars within the Brueckner-Bethe-Goldstone theory. *Astronomy and Astrophysics*, **2006**, 451, 213-222	5.1	39
67	Performance of the first ANTARES detector line. *Astroparticle Physics*, **2009**, 31, 277-283	2.4	37
66	Hybrid protoneutron stars with the Dyson-Schwinger quark model. *Physical Review D*, **2012**, 86,	4.9	32
65	Neutron star universal relations with microscopic equations of state. *Journal of Physics G: Nuclear and Particle Physics*, **2019**, 46, 034001	2.9	28
64	Fluctuations in nuclear dynamics: Comparison of different methods. *Nuclear Physics A*, **1992**, 540, 227-260	2.3	26
63	Thermal states of neutron stars with a consistent model of interior. *Monthly Notices of the Royal Astronomical Society*, **2018**, 475, 5010-5022	4.3	25
62	Cassiopeia A and direct Urca cooling. *Monthly Notices of the Royal Astronomical Society*, **2016**, 456, 1451-1458	4.3	25
61	Dark compact objects: An extensive overview. *Physical Review D*, **2019**, 99,	4.9	24

60	Protoneutron stars in the Brueckner-Hartree-Fock approach and finite-temperature kaon condensation. *Physical Review C*, **2010**, 81,	2.7	24
59	Oscillations of hot, young neutron stars: Gravitational wave frequencies and damping times. *Physical Review D*, **2011**, 84,	4.9	24
58	Hybrid neutron stars with the Dyson-Schwinger quark model and various quark-gluon vertices. *Physical Review D*, **2015**, 91,	4.9	23
57	The neutron star in Cassiopeia A: equation of state, superfluidity, and Joule heating. *Astronomy and Astrophysics*, **2014**, 561, L5	5.1	23
56	Dynamics of fragment formation in the nuclear spinodal region. *Physical Review C*, **1995**, 51, 198-211	2.7	23
55	Astrophysical constraints on the confining models: The field correlator method. *Physical Review D*, **2008**, 78,	4.9	21
54	Microscopic three-body forces and kaon condensation in cold neutrino-trapped matter. *Physical Review C*, **2006**, 74,	2.7	21
53	Nuclear Equation of State for Compact Stars and Supernovae. *Astrophysics and Space Science Library*, **2018**, 255-335	0.3	21
52	Are nuclear matter properties correlated to neutron star observables?. *European Physical Journal A*, **2020**, 56, 1	2.5	18
51	Structure of the hadron-quark mixed phase in protoneutron stars. *Astronomy and Astrophysics*, **2013**, 551, A13	5.1	18
50	Quark matter in neutron stars within the field correlator method. *Physical Review D*, **2013**, 88,	4.9	18
49	Non-linear mean field dynamics in the nuclear spinodal zone. *Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics*, **1994**, 321, 307-311	4.2	18
48	On the maximum rotational frequency of neutron and hybrid stars. *Astronomy and Astrophysics*, **2003**, 408, 675-680	5.1	17
47	Hot neutron stars with microscopic equations of state. *Physical Review C*, **2019**, 100,	2.7	17
46	Nuclear matter equation of state from a quark-model nucleon-nucleon interaction. *Physical Review C*, **2015**, 92,	2.7	16
45	Structure of hybrid protoneutron stars within the Nambu□ona-Lasinio model. *Physical Review D*, **2008**, 77,	4.9	16
44	TeV mu neutrinos from young neutron stars. *Physical Review Letters*, **2005**, 94, 181101	7.4	15
43	Chaoticity in vibrating nuclear billiards. *Physical Review C*, **1995**, 52, 2475-2479	2.7	15

42	Neutron star cooling with microscopic equations of state. *Monthly Notices of the Royal Astronomical Society*, **2019**, 484, 5162-5169	4.3	15
41	Hybrid star structure with the Field Correlator Method. *European Physical Journal A*, **2016**, 52, 1	2.5	14
40	From the crust to the core of neutron stars on a microscopic basis. *Physics of Atomic Nuclei*, **2014**, 77, 1157-1165	0.4	14
39	Radial Modes of Neutron Stars with a Quark Core. *Astrophysical Journal*, **2002**, 566, L89-L92	4.7	14
38	Isothermal vs. isentropic description of protoneutron stars in the Brueckner-Bethe-Goldstone theory. *Physics of Atomic Nuclei*, **2009**, 72, 1197-1202	0.4	12
37	The Equation of State of Nuclear Matter: From Finite Nuclei to Neutron Stars. *Universe*, **2020**, 6, 119	2.5	12
36	Studies of a full-scale mechanical prototype line for the ANTARES neutrino telescope and tests of a prototype instrument for deep-sea acoustic measurements. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2007**, 581, 695-708	1.2	11
35	One-body dissipation and chaotic dynamics in a classical simulation of a nuclear gas. *Physical Review C*, **1998**, 58, 2821-2830	2.7	11
34	Nucleon effective mass in hot dense matter. *Physical Review C*, **2020**, 101,	2.7	10
33	A microscopic equation of state for protoneutron stars. *Astrophysics and Space Science*, **2007**, 308, 387-394	2.6	10
32	Flux predictions of high-energy neutrinos from pulsars. *Monthly Notices of the Royal Astronomical Society*, **2006**, 371, 375-379	4.3	10
31	Simulation of transport equations for unstable systems: Comparison between lattice and test-particle methods. *Nuclear Physics A*, **1995**, 581, 356-372	1.3	10
30	Phase space model of hard-photon production in heavy-ion collisions **1990**, 103, 309-316		10
29	Hadron-quark phase transitions in hyperon stars. *Physics of Atomic Nuclei*, **2011**, 74, 1502-1507	0.4	9
28	Chaos vs linear instability in the Vlasov equation: A fractal analysis characterization. *Physical Review C*, **1996**, 53, 2556-2559	2.7	9
27	Collisional width of giant resonances and interplay with Landau damping. *Physical Review C*, **1989**, 39, 2385-2389	2.7	9
26	Hybrid equation of state approach in binary neutron-star merger simulations. *Physical Review D*, **2020**, 102,	4.9	8
25	On the change of old neutron star masses with galactocentric distance. *Physics of the Dark Universe*, **2020**, 28, 100484	4.4	8

24	Rotating hybrid stars with the Dyson-Schwinger quark model. *Physical Review D*, **2017**, 96,	4.9	8
23	Cooling of hybrid neutron stars with microscopic equations of state. *Monthly Notices of the Royal Astronomical Society*, **2020**, 498, 344-354	4.3	7
22	EXOTIC PHASES IN NEUTRON STARS. *International Journal of Modern Physics E*, **2008**, 17, 1635-1647	0.7	6
21	The hadron-quark phase transition in neutron stars. *Nuclear Physics A*, **2005**, 749, 337-340	1.3	5
20	A Modern View of the Equation of State in Nuclear and Neutron Star Matter. *Symmetry*, **2021**, 13, 400	2.7	5
19	The equation of state of dense matter: from nuclear collisions to neutron stars. *Journal of Physics G: Nuclear and Particle Physics*, **2008**, 35, 014048	2.9	4
18	Beyond liear response theory in multifragmentation. *Nuclear Physics A*, **1995**, 583, 343-346	1.3	4
17	Nuclear Pairing Gaps and Neutron Star Cooling. *Universe*, **2020**, 6, 115	2.5	4
16	Generalized entropy and temperature in nuclear multifragmentation. *Physical Review C*, **1998**, 58, 2238-2248	2.7	3
15	Accurate nuclear symmetry energy at finite temperature within a Brueckner-Hartree-Fock approach. *Physical Review C*, **2021**, 103,	2.7	3
14	A Unified Equation of State on a Microscopic Basis : Implications for Neutron Stars Structure and Cooling. *Journal of Physics: Conference Series*, **2018**, 981, 012012	0.3	2
13	THE BETHE□BRUECKNER□GOLDTONE THEORY OF THE NUCLEAR EQUATION OF STATE AND NEUTRON STARS. *International Journal of Modern Physics B*, **2003**, 17, 5127-5137	1.1	2
12	Publisher□s Note: TeV □Neutrinos from Young Neutron Stars [Phys. Rev. Lett. 94, 181101 (2005)]. *Physical Review Letters*, **2005**, 94,	7.4	2
11	Cluster formation by a simple noise. *Progress in Particle and Nuclear Physics*, **1993**, 30, 185-186	10.6	2
10	Binary neutron star merger simulations with hot microscopic equations of state. *Physical Review D*, **2021**, 103,	4.9	2
9	Equation of state and radial oscillations of neutron stars. *Physical Review D*, **2021**, 103,	4.9	2
8	The equation of state at finite temperature: Structure and composition of protoneutron stars. *Journal of Physics: Conference Series*, **2016**, 665, 012062	0.3	1
7	Neutron Star masses from the Field Correlator Method Equation of State. *EPJ Web of Conferences*, **2014**, 71, 00143	0.3	1

6	Production of high-energy neutrinos from young neutron stars. *Nuclear Physics, Section B, Proceedings Supplements*, **2007**, 165, 231-236		1
5	Neutron star structure from a quark-model baryon-baryon interaction. *EPJ Web of Conferences*, **2016**, 117, 09006	0.3	1
4	Constraints on modern microscopic equations of state. *Journal of Physics: Conference Series*, **2016**, 665, 012064	0.3	
3	The CSS parametrization for Hybrid Stars with the Field Correlator Method. *Journal of Physics: Conference Series*, **2017**, 861, 012011	0.3	
2	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	1.2	
1	A microscopic equation of state for protoneutron stars **2007**, 387-394		