

Germán Lugones

List of Publications by Year in descending order

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66
papers

1,582
citations

236612

25
h-index

301761

39
g-index

66
all docs

66
docs citations

66
times ranked

492
citing authors

#	ARTICLE	IF	CITATIONS
1	Color-flavor locked strange matter. <i>Physical Review D</i> , 2002, 66, .	1.6	127
2	Strange matter equation of state in the quark mass-density-dependent model. <i>Physical Review D</i> , 1995, 51, 1989-1993.	1.6	110
3	Surface tension and curvature energy of quark matter in the Nambu–Jona-Lasinio model. <i>Physical Review C</i> , 2013, 88, .	1.1	77
4	Phase Transition Effects on the Dynamical Stability of Hybrid Neutron Stars. <i>Astrophysical Journal</i> , 2018, 860, 12.	1.6	76
5	High-density QCD pairing in compact star structure. <i>Astronomy and Astrophysics</i> , 2003, 403, 173-178.	2.1	73
6	Effects of color superconductivity on the nucleation of quark matter in neutron stars. <i>Astronomy and Astrophysics</i> , 2007, 462, 1017-1022.	2.1	60
7	Combustion of nuclear matter into strange matter. <i>Physical Review D</i> , 1994, 50, 6100-6109.	1.6	58
8	HYBRID STARS IN THE LIGHT OF THE MASSIVE PULSAR PSR J1614–2230. <i>Astrophysical Journal</i> , 2012, 759, 57.	1.6	55
9	Strange matter equation of state and the combustion of nuclear matter into strange matter in the quark mass-density-dependent model at $T > 0$. <i>Physical Review D</i> , 1995, 52, 1276-1280.	1.6	52
10	Phase transitions in neutron stars and their links to gravitational waves. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 073002.	1.4	47
11	Effect of trapped neutrinos in the hadron matter to quark matter transition. <i>Physical Review D</i> , 1998, 58, .	1.6	45
12	Constraining color flavor locked strange stars in the gravitational wave era. <i>Physical Review C</i> , 2017, 95, .	1.1	44
13	Deconfinement and color superconductivity in cold neutron stars. <i>Physical Review D</i> , 2005, 72, .	1.6	43
14	Discriminating hadronic and quark stars through gravitational waves of fluid pulsation modes. <i>Classical and Quantum Gravity</i> , 2014, 31, 155002.	1.5	40
15	The phase transition from nuclear matter to quark matter during proto-neutron star evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 304, L25-L29.	1.6	39
16	Self-bound CFL stars in binary systems: Are they “hidden” among the black hole candidates?. <i>Astronomy and Astrophysics</i> , 2004, 422, L1-L4.	2.1	35
17	Radial oscillations of color superconducting self-bound quark stars. <i>Physical Review D</i> , 2010, 82, .	1.6	35
18	From quark drops to quark stars. <i>European Physical Journal A</i> , 2016, 52, 1.	1.0	34

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19	Surface tension of highly magnetized degenerate quark matter. <i>Physical Review C</i> , 2017, 95, .	1.1	32
20	Discontinuity gravity modes in hybrid stars: Assessing the role of rapid and slow phase conversions. <i>Physical Review D</i> , 2020, 101, .	1.6	31
21	Asymmetric Core Combustion in Neutron Stars and a Potential Mechanism for Gamma-Ray Bursts. <i>Astrophysical Journal</i> , 2002, 581, L101-L104.	1.6	31
22	Critical spectrum of fluctuations for deconfinement at protoneutron star cores. <i>Physical Review D</i> , 2011, 84, .	1.6	30
23	Compact stars in the braneworld: A new branch of stellar configurations with arbitrarily large mass. <i>Physical Review D</i> , 2017, 95, .	1.6	30
24	Surface tension of hot and dense quark matter under strong magnetic fields. <i>Physical Review C</i> , 2019, 99, .	1.1	28
25	Magnetized hybrid stars: effects of slow and rapid phase transitions at the quark-hadron interface. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 4261-4277.	1.6	25
26	Vector interactions inhibit quark-hadron mixed phases in neutron stars. <i>Physical Review D</i> , 2021, 104, .	1.6	25
27	Primordial nuggets survival and QCD pairing. <i>Physical Review D</i> , 2004, 69, .	1.6	24
28	QUARK-HADRON MATTER EQUATION OF STATE AND COMPACT STAR STRUCTURE. <i>International Journal of Modern Physics D</i> , 2003, 12, 495-507.	0.9	23
29	Deconfinement transition in protoneutron stars: Analysis within the Nambu-Jona-Lasinio model. <i>Physical Review D</i> , 2010, 81, .	1.6	22
30	Deconfinement of neutron star matter within the Nambu-Jona-Lasinio model. <i>Physical Review D</i> , 2009, 80, .	1.6	21
31	THE PROPERTIES OF STRANGE STARS IN THE QUARK MASS-DENSITY-DEPENDENT MODEL. <i>International Journal of Modern Physics D</i> , 1998, 07, 29-48.	0.9	20
32	Hybrid stars in the light of the merging event GW170817. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 042.	1.9	16
33	Nucleation rate of colour superconducting droplets in protoneutron stars. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013, 40, 035201.	1.4	14
34	Finite size effects in strongly interacting matter at zero chemical potential from Polyakov loop Nambu-Jona-Lasinio model in the light of lattice data. <i>European Physical Journal C</i> , 2018, 78, 1.	1.4	14
35	Probing Elastic Quark Phases in Hybrid Stars with Radius Measurements. <i>Astrophysical Journal</i> , 2021, 910, 145.	1.6	13
36	Feasibility of Biventricular Repair in Right Dominant Unbalanced Atrioventricular Septal Defect: A New Echocardiographic Metric to Refine Surgical Decision-Making. <i>World Journal for Pediatric & Congenital Heart Surgery</i> , 2017, 8, 460-467.	0.3	12

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37	Surface and curvature properties of charged strangelets in compact objects. <i>Physical Review C</i> , 2021, 103, .	1.1	12
38	Phase Conversions in Neutron Stars: Implications for Stellar Stability and Gravitational Wave Astrophysics. <i>Universe</i> , 2021, 7, 493.	0.9	12
39	RADIAL PULSATIIONS OF HYBRID NEUTRON STARS. <i>International Journal of Modern Physics Conference Series</i> , 2012, 18, 105-108.	0.7	11
40	Unveiling the cosmological QCD phase transition through the eLISA/NGO detector. <i>Physical Review D</i> , 2013, 87, .	1.6	9
41	Gravitational wave asteroseismology limits from low density nuclear matter and perturbative QCD. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 046-046.	1.9	9
42	Quark deconfinement in protoneutron star cores: Effect of color superconductivity within the MIT bag model. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2013, 392, 6536-6544.	1.2	8
43	Probing light pseudoscalar particles using synchrotron light. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 673, 101-105.	1.5	7
44	Properties of strongly magnetized ultradense matter and its effects on magnetar pulsations. <i>Physical Review C</i> , 2016, 94, .	1.1	6
45	General Relativistic Surface Degrees of Freedom in Perturbed Hybrid Stars. <i>Astrophysical Journal</i> , 2019, 871, 47.	1.6	6
46	QUARKâ€“DIQUARK EQUATIONS OF STATE MODELS: THE ROLE OF INTERACTIONS. <i>International Journal of Modern Physics D</i> , 2003, 12, 519-526.	0.9	5
47	Compact stars on the brane: What could they reveal about extra dimensions?. <i>Astronomische Nachrichten</i> , 2015, 336, 876-879.	0.6	5
48	Fundamental oscillation modes of self-interacting bosonic dark stars. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 051-051.	1.9	5
49	Hydrodynamic Simulations of the Combustion of Dense Hadronic Matter into Quark Matter. <i>Brazilian Journal of Physics</i> , 2015, 45, 457-466.	0.7	4
50	Assessing the role of the Kelvin-Helmholtz instability at the QCD cosmological transition. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 051-051.	1.9	4
51	SUPERNOVAE, PROTONEUTRON STARS AND RELATED HIGH ENERGY PHENOMENA. <i>International Journal of Modern Physics D</i> , 2004, 13, 1287-1292.	0.9	2
52	RADIAL OSCILLATIONS OF COLOR SUPERCONDUCTING QUARK STARS. <i>International Journal of Modern Physics D</i> , 2010, 19, 1499-1504.	0.9	2
53	QUARK MATTER NUCLEATION AT NEUTRON STAR CORES: RELEVANCE OF ENERGY-DENSITY FLUCTUATIONS. <i>International Journal of Modern Physics E</i> , 2011, 20, 167-174.	0.4	2
54	Nonâ€“radial fluid oscilation modes of color superconducting selfâ€“bound stars. <i>Astronomische Nachrichten</i> , 2014, 335, 769-774.	0.6	2

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55	Neutrino diffusive transport in hot quark matter: A detailed analysis. <i>Physical Review C</i> , 2014, 89, .	1.1	2
56	Electroweak decay of quark matter within combustion flames at compact objects. <i>Nuclear and Particle Physics Proceedings</i> , 2015, 267-269, 227-229.	0.2	2
57	The role of quark matter surface tension in magnetars. <i>Astronomische Nachrichten</i> , 2021, 342, 205-210.	0.6	2
58	Magnetic Fields in High-Density Stellar Matter. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	1
59	DECONFINEMENT TRANSITION IN PROTONEUTRON STARS. <i>International Journal of Modern Physics D</i> , 2010, 19, 1537-1540.	0.9	1
60	Relativistic Cowling approximation for fluid oscillation modes of color superconducting self-bound stars. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 451-451.	0.0	1
61	The matter of "unbalance" in right dominant atrioventricular septal defect. <i>Annals of Pediatric Cardiology</i> , 2019, 12, 132.	0.2	1
62	Role of color superconductivity on the nucleation of quark matter in neutron stars. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008, 35, 014054.	1.4	0
63	Gravitational waves from the cosmological QCD transitio. <i>Astronomische Nachrichten</i> , 2014, 335, 697-702.	0.6	0
64	Looking for extra dimensions in compact stars. <i>Journal of Physics: Conference Series</i> , 2017, 861, 012002.	0.3	0
65	Electroweak decay of quark matter within dense astrophysical combustion flames. <i>Physical Review C</i> , 2021, 103, .	1.1	0
66	A MODEL FOR THE INNER ENGINE OF GAMMA RAY BURSTS. , 2006, , .		0