

Isaac Vidana

List of Publications by Year in descending order

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93
papers

3,974
citations

126708

33
h-index

114278

63
g-index

94
all docs

94
docs citations

94
times ranked

1664
citing authors

#	ARTICLE	IF	CITATIONS
1	Constraints on the symmetry energy and neutron skins from experiments and theory. Physical Review C, 2012, 86, .	1.1	566
2	Density dependence of the nuclear symmetry energy: A microscopic perspective. Physical Review C, 2009, 80, .	1.1	181
3	Do hyperons exist in the interior of neutron stars?. European Physical Journal A, 2016, 52, 1.	1.0	174
4	Topical issue on nuclear symmetry energy. European Physical Journal A, 2014, 50, 1.	1.0	171
5	Quark Deconfinement and Implications for the Radius and the Limiting Mass of Compact Stars. Astrophysical Journal, 2004, 614, 314-325.	1.6	166
6	Hyperon-hyperon interactions and properties of neutron star matter. Physical Review C, 2000, 62, .	1.1	146
7	Core-crust transition in neutron stars: Predictivity of density developments. Physical Review C, 2011, 83, .	1.1	143
8	Estimation of the effect of hyperonic three-body forces on the maximum mass of neutron stars. Europhysics Letters, 2011, 94, 11002.	0.7	141
9	Maximum mass of neutron stars. Physical Review C, 2006, 73, .	1.1	138
10	Constraining the Nuclear Equation of State at Subsaturation Densities. Physical Review Letters, 2012, 109, 092501.	2.9	116
11	Hypernuclear structure with the new Nijmegen potentials. Physical Review C, 2001, 64, .	1.1	94
12	Strange nuclear matter within Brueckner-Hartree-Fock theory. Physical Review C, 2000, 61, .	1.1	93
13	Equation of state and thickness of the inner crust of neutron stars. Physical Review C, 2014, 90, .	1.1	92
14	Equation of state and magnetic susceptibility of spin polarized isospin asymmetric nuclear matter. Physical Review C, 2002, 66, .	1.1	87
15	Spin polarized neutron matter and magnetic susceptibility within the Brueckner-Hartree-Fock approximation. Physical Review C, 2002, 65, .	1.1	74
16	Nuclear symmetry energy and the role of the tensor force. Physical Review C, 2011, 84, .	1.1	74
17	Dynamically generated open-charm baryons beyond the zero-range approximation. Physical Review C, 2009, 80, .	1.1	67
18	Quark matter nucleation in neutron stars and astrophysical implications. European Physical Journal A, 2016, 52, 1.	1.0	66

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19	Comparative study of neutron and nuclear matter with simplified Argonne nucleon-nucleon potentials. <i>Physical Review C</i> , 2012, 86, .	1.1	65
20	Hot neutron matter from a self-consistent Green's-functions approach. <i>Physical Review C</i> , 2009, 79, .	1.1	62
21	Ferromagnetic instabilities in neutron matter at finite temperature with the Skyrme interaction. <i>Physical Review C</i> , 2005, 71, .	1.1	61
22	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
23	Quark matter nucleation in hot hadronic matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 680, 448-452.	1.5	59
24	Λ hyperons and the neutron drip line. <i>Physical Review C</i> , 2008, 78, .	1.1	57
25	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.	1.5	50
26	Impact of chiral hyperonic three-body forces on neutron stars. <i>European Physical Journal A</i> , 2019, 55, 1.	1.0	50
27	Hyperon properties in finite nuclei using realistic YN interactions. <i>Nuclear Physics A</i> , 1998, 644, 201-220.	0.6	47
28	Nuclear symmetry energy and the r -mode instability of neutron stars. <i>Physical Review C</i> , 2012, 85, .	1.1	43
29	Imprint of the symmetry energy on the inner crust and strangeness content of neutron stars. <i>European Physical Journal A</i> , 2014, 50, 1.	1.0	41
30	Metastability of hadronic compact stars. <i>Physical Review D</i> , 2008, 77, .	1.6	40
31	Microscopic study of neutrino trapping in hyperon stars. <i>Astronomy and Astrophysics</i> , 2003, 399, 687-693.	2.1	38
32	Hyperons: the strange ingredients of the nuclear equation of state. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20180145.	1.0	38
33	Formation of hybrid stars from metastable hadronic stars. <i>Physical Review C</i> , 2013, 88, .	1.1	33
34	Effects of quark matter nucleation on the evolution of proto-neutron stars. <i>Astronomy and Astrophysics</i> , 2011, 528, A71.	2.1	32
35	Chiral model approach to quark matter nucleation in neutron stars. <i>Physical Review D</i> , 2012, 85, .	1.6	30
36	Microscopic calculation of the neutrino mean free path inside hot neutron matter. <i>Physical Review C</i> , 2003, 68, .	1.1	27

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37	Λ -bond energy from the Nijmegen potentials. <i>Physical Review C</i> , 2004, 70, .	1.1	27
38	Ferromagnetic instabilities in neutron matter at finite temperature with the Gogny interaction. <i>Physical Review C</i> , 2006, 74, .	1.1	27
39	Comparative study of three-nucleon force models in nuclear matter. <i>Physical Review C</i> , 2015, 91, .	1.1	27
40	Superfluidity of Λ -hyperons in 2 -stable neutron star matter. <i>Physical Review C</i> , 2004, 70, .	1.1	26
41	Open-charm mesons in nuclear matter at finite temperature beyond the zero-range approximation. <i>Physical Review C</i> , 2011, 84, .	1.1	26
42	Magnetic susceptibility and magnetization properties of asymmetric nuclear matter in a strong magnetic field. <i>Physical Review C</i> , 2015, 91, .	1.1	26
43	Spin-orbit and tensor interactions in homogeneous matter of nucleons: accuracy of modern many-body theories. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 609, 232-240.	1.5	24
44	Microscopic calculations of transport properties of neutron matter. <i>Physical Review C</i> , 2010, 81, .	1.1	24
45	Tensor force effects and high-momentum components in the nuclear symmetry energy. <i>European Physical Journal A</i> , 2014, 50, 1.	1.0	22
46	The Equation of State of Nuclear Matter: From Finite Nuclei to Neutron Stars. <i>Universe</i> , 2020, 6, 119.	0.9	22
47	Quark matter nucleation with a microscopic hadronic equation of state. <i>Physical Review C</i> , 2012, 85, .	1.1	21
48	On kinematical constraints in boson-boson systems. <i>European Physical Journal A</i> , 2012, 48, 1.	1.0	19
49	Hyperons and neutron stars. <i>Nuclear Physics A</i> , 2013, 914, 367-376.	0.6	19
50	Hyperons in Neutron Stars. <i>Journal of Physics: Conference Series</i> , 2016, 668, 012031.	0.3	19
51	A short walk through the physics of neutron stars. <i>European Physical Journal Plus</i> , 2018, 133, 1.	1.2	18
52	Spinodal instabilities of asymmetric nuclear matter within the Brueckner-Hartree-Fock approach. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 666, 232-238.	1.5	17
53	Effect of hyperonic three-body forces on the maximum mass of neutron stars. <i>Journal of Physics: Conference Series</i> , 2012, 342, 012006.	0.3	16
54	Bulk and single-particle properties of hyperonic matter at finite temperature. <i>Physical Review C</i> , 2005, 72, .	1.1	14

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55	Quark deconfinement and neutrino trapping in compact stars. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1165-S1169.	1.4	14
56	Single-particle spectral function of the Λ hyperon in finite nuclei. Nuclear Physics A, 2017, 958, 48-70.	0.6	14
57	A Modern View of the Equation of State in Nuclear and Neutron Star Matter. Symmetry, 2021, 13, 400.	1.1	14
58	Neutron matter under strong magnetic fields: A comparison of models. Physical Review C, 2014, 89, .	1.1	13
59	Structure of single- Λ hypernuclei with chiral hyperon-nucleon potentials. European Physical Journal A, 2020, 56, 1.	1.0	13
60	Latent heat of nuclear matter. Physical Review C, 2011, 83, .	1.1	11
61	Medium effects on intermediate-energy one-nucleon removal cross sections. Physical Review C, 2009, 79, .	1.1	7
62	Predictions for charmed nuclei based on Y_c forces inferred from lattice QCD simulations. European Physical Journal A, 2020, 56, 1.	1.0	7
63	Nucleon-Nucleon Interactions from the Quark Model. , 2010, , .		6
64	Role of correlations in spin-polarized neutron matter. Physical Review C, 2016, 94, .	1.1	6
65	Asymmetry of the neutrino mean free path in hot neutron matter under strong magnetic fields. Physical Review C, 2019, 99, .	1.1	6
66	The Hellmann-Feynman theorem at finite temperature. American Journal of Physics, 2020, 88, 503-510.	0.3	6
67	Excitation of Λ^* and N^* resonances in isobaric charge-exchange reactions of heavy nuclei. EPJ Web of Conferences, 2016, 107, 10003.	0.1	5
68	Transport Coefficients of Hyperonic Neutron Star Cores. Universe, 2021, 7, 203.	0.9	4
69	Hyperons in Finite and Infinite Nuclear Systems. Universe, 2021, 7, 376.	0.9	4
70	Neutrino trapping effects on Λ^2 -stable neutron star matter. Nuclear Physics A, 2003, 719, C173-C176.	0.6	3
71	Publisher's Note: Latent heat of nuclear matter [Phys. Rev. C83, 024308 (2011)]. Physical Review C, 2011, 83, .	1.1	3
72	Two-meson exchange hyperonic three-body forces and consequences for neutron stars. Nuclear Physics A, 2013, 914, 433-437.	0.6	3

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73	An analytic parametrization of the hypernuclear matter equation of state. European Physical Journal A, 2022, 58, 1.	1.0	3
74	Hyperon effects on the properties of $\hat{\Lambda}^2$ -stable neutron star matter. Nuclear Physics A, 2001, 691, 443-446.	0.6	2
75	Role of hyperons on the hadron-star to quark-star conversion mechanism. Nuclear Physics A, 2005, 754, 345-349.	0.6	2
76	Nucleation of Quark Matter in Proto-Neutron Stars. Progress of Theoretical Physics Supplement, 2010, 186, 32-38.	0.2	2
77	Charm Hadrons in Dense Matter. Few-Body Systems, 2011, 50, 351-353.	0.7	2
78	Effect of Tensor Correlations on the Density Dependence of the Nuclear Symmetry Energy. Symmetry, 2015, 7, 15-31.	1.1	2
79	Evolution of proto-neutron stars with hadron \rightarrow quark phase transition. Journal of Physics: Conference Series, 2012, 342, 012001.	0.3	1
80	Do hyperons exist in the neutron star interior?. AIP Conference Proceedings, 2019, , .	0.3	1
81	Spinodal instabilities of spin-polarized asymmetric nuclear matter. Physical Review C, 2020, 102, .	1.1	1
82	Role of color superconductivity on the nucleation of quark matter in neutron stars. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014054.	1.4	0
83	Nucleon correlations and the equation of state of nuclear matter. , 2010, , .		0
84	Evolution of newborn neutron stars: role of quark matter nucleation. Journal of Physics: Conference Series, 2011, 336, 012021.	0.3	0
85	Symmetry Energy, Neutron Star Crust and Neutron Skin Thickness. Few-Body Systems, 2011, 50, 327-329.	0.7	0
86	Liquid-gas phase transition in nuclear matter in the mean-field approximation. Journal of Physics: Conference Series, 2011, 321, 012058.	0.3	0
87	Liquid-gas phase transition in nuclear matter: Mean-field and beyond. EPJ Web of Conferences, 2012, 31, 00003.	0.1	0
88	Symmetry energy within the BHF approach. Journal of Physics: Conference Series, 2012, 342, 012012.	0.3	0
89	Tensor force and the nuclear symmetry energy. Journal of Physics: Conference Series, 2013, 420, 012091.	0.3	0
90	Single-particle spectral function of the $\hat{\Lambda}$ hyperon in finite nuclei. AIP Conference Proceedings, 2019, , .	0.3	0

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91	Quark degrees of freedom and nuclear matter saturation. <i>Modern Physics Letters A</i> , 2019, 34, 1950322.	0.5	0
92	Nucleon–Nucleon Correlations and the Isospin and Spin Symmetry Energy. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2017, 10, 165.	0.0	0
93	GAMMA RAY BURSTS AND DELAYED QUARK-DECONFINEMENT. , 2006, , 353-375.		0