

Isaac Vidana

List of Publications by Year in descending order

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93
papers

3,974
citations

126907

33
h-index

114465

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. <i>Physical Review C</i> , 2012, 86, .	2.9	566
2	Density dependence of the nuclear symmetry energy: A microscopic perspective. <i>Physical Review C</i> , 2009, 80, .	2.9	181
3	Do hyperons exist in the interior of neutron stars?. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	174
4	Topical issue on nuclear symmetry energy. <i>European Physical Journal A</i> , 2014, 50, 1.	2.5	171
5	Quark Deconfinement and Implications for the Radius and the Limiting Mass of Compact Stars. <i>Astrophysical Journal</i> , 2004, 614, 314-325.	4.5	166
6	Hyperon-hyperon interactions and properties of neutron star matter. <i>Physical Review C</i> , 2000, 62, .	2.9	146
7	Core-crust transition in neutron stars: Predictivity of density developments. <i>Physical Review C</i> , 2011, 83, .	2.9	143
8	Estimation of the effect of hyperonic three-body forces on the maximum mass of neutron stars. <i>Europhysics Letters</i> , 2011, 94, 11002.	2.0	141
9	Maximum mass of neutron stars. <i>Physical Review C</i> , 2006, 73, .	2.9	138
10	Constraining the Nuclear Equation of State at Subsaturation Densities. <i>Physical Review Letters</i> , 2012, 109, 092501.	7.8	116
11	Hypernuclear structure with the new Nijmegen potentials. <i>Physical Review C</i> , 2001, 64, .	2.9	94
12	Strange nuclear matter within Brueckner-Hartree-Fock theory. <i>Physical Review C</i> , 2000, 61, .	2.9	93
13	Equation of state and thickness of the inner crust of neutron stars. <i>Physical Review C</i> , 2014, 90, .	2.9	92
14	Equation of state and magnetic susceptibility of spin polarized isospin asymmetric nuclear matter. <i>Physical Review C</i> , 2002, 66, .	2.9	87
15	Spin polarized neutron matter and magnetic susceptibility within the Brueckner-Hartree-Fock approximation. <i>Physical Review C</i> , 2002, 65, .	2.9	74
16	Nuclear symmetry energy and the role of the tensor force. <i>Physical Review C</i> , 2011, 84, .	2.9	74
17	Dynamically generated open-charm baryons beyond the zero-range approximation. <i>Physical Review C</i> , 2009, 80, .	2.9	67
18	Quark matter nucleation in neutron stars and astrophysical implications. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	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, .	2.9	65
20	Hot neutron matter from a self-consistent Green's-functions approach. <i>Physical Review C</i> , 2009, 79, .	2.9	62
21	Ferromagnetic instabilities in neutron matter at finite temperature with the Skyrme interaction. <i>Physical Review C</i> , 2005, 71, .	2.9	61
22	Effects of color superconductivity on the nucleation of quark matter in neutron stars. <i>Astronomy and Astrophysics</i> , 2007, 462, 1017-1022.	5.1	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.	4.1	59
24	Λ hyperons and the neutron drip line. <i>Physical Review C</i> , 2008, 78, .	2.9	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.	4.1	50
26	Impact of chiral hyperonic three-body forces on neutron stars. <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	50
27	Hyperon properties in finite nuclei using realistic YN interactions. <i>Nuclear Physics A</i> , 1998, 644, 201-220.	1.5	47
28	Nuclear symmetry energy and the r -mode instability of neutron stars. <i>Physical Review C</i> , 2012, 85, .	2.9	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.	2.5	41
30	Metastability of hadronic compact stars. <i>Physical Review D</i> , 2008, 77, .	4.7	40
31	Microscopic study of neutrino trapping in hyperon stars. <i>Astronomy and Astrophysics</i> , 2003, 399, 687-693.	5.1	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.	2.1	38
33	Formation of hybrid stars from metastable hadronic stars. <i>Physical Review C</i> , 2013, 88, .	2.9	33
34	Effects of quark matter nucleation on the evolution of proto-neutron stars. <i>Astronomy and Astrophysics</i> , 2011, 528, A71.	5.1	32
35	Chiral model approach to quark matter nucleation in neutron stars. <i>Physical Review D</i> , 2012, 85, .	4.7	30
36	Microscopic calculation of the neutrino mean free path inside hot neutron matter. <i>Physical Review C</i> , 2003, 68, .	2.9	27

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37	Λ -bond energy from the Nijmegen potentials. <i>Physical Review C</i> , 2004, 70, .	2.9	27
38	Ferromagnetic instabilities in neutron matter at finite temperature with the Gogny interaction. <i>Physical Review C</i> , 2006, 74, .	2.9	27
39	Comparative study of three-nucleon force models in nuclear matter. <i>Physical Review C</i> , 2015, 91, .	2.9	27
40	Superfluidity of Λ -hyperons in 2 -stable neutron star matter. <i>Physical Review C</i> , 2004, 70, .	2.9	26
41	Open-charm mesons in nuclear matter at finite temperature beyond the zero-range approximation. <i>Physical Review C</i> , 2011, 84, .	2.9	26
42	Magnetic susceptibility and magnetization properties of asymmetric nuclear matter in a strong magnetic field. <i>Physical Review C</i> , 2015, 91, .	2.9	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.	4.1	24
44	Microscopic calculations of transport properties of neutron matter. <i>Physical Review C</i> , 2010, 81, .	2.9	24
45	Tensor force effects and high-momentum components in the nuclear symmetry energy. <i>European Physical Journal A</i> , 2014, 50, 1.	2.5	22
46	The Equation of State of Nuclear Matter: From Finite Nuclei to Neutron Stars. <i>Universe</i> , 2020, 6, 119.	2.5	22
47	Quark matter nucleation with a microscopic hadronic equation of state. <i>Physical Review C</i> , 2012, 85, .	2.9	21
48	On kinematical constraints in boson-boson systems. <i>European Physical Journal A</i> , 2012, 48, 1.	2.5	19
49	Hyperons and neutron stars. <i>Nuclear Physics A</i> , 2013, 914, 367-376.	1.5	19
50	Hyperons in Neutron Stars. <i>Journal of Physics: Conference Series</i> , 2016, 668, 012031.	0.4	19
51	A short walk through the physics of neutron stars. <i>European Physical Journal Plus</i> , 2018, 133, 1.	2.6	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.	4.1	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.	0.4	16
54	Bulk and single-particle properties of hyperonic matter at finite temperature. <i>Physical Review C</i> , 2005, 72, .	2.9	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.	3.6	14
56	Single-particle spectral function of the Λ hyperon in finite nuclei. Nuclear Physics A, 2017, 958, 48-70.	1.5	14
57	A Modern View of the Equation of State in Nuclear and Neutron Star Matter. Symmetry, 2021, 13, 400.	2.2	14
58	Neutron matter under strong magnetic fields: A comparison of models. Physical Review C, 2014, 89, .	2.9	13
59	Structure of single- Λ hypernuclei with chiral hyperon-nucleon potentials. European Physical Journal A, 2020, 56, 1.	2.5	13
60	Latent heat of nuclear matter. Physical Review C, 2011, 83, .	2.9	11
61	Medium effects on intermediate-energy one-nucleon removal cross sections. Physical Review C, 2009, 79, .	2.9	7
62	Predictions for charmed nuclei based on $Y_c N$ forces inferred from lattice QCD simulations. European Physical Journal A, 2020, 56, 1.	2.5	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, .	2.9	6
65	Asymmetry of the neutrino mean free path in hot neutron matter under strong magnetic fields. Physical Review C, 2019, 99, .	2.9	6
66	The Hellmann-Feynman theorem at finite temperature. American Journal of Physics, 2020, 88, 503-510.	0.7	6
67	Excitation of Λ^* and N^* resonances in isobaric charge-exchange reactions of heavy nuclei. EPJ Web of Conferences, 2016, 107, 10003.	0.3	5
68	Transport Coefficients of Hyperonic Neutron Star Cores. Universe, 2021, 7, 203.	2.5	4
69	Hyperons in Finite and Infinite Nuclear Systems. Universe, 2021, 7, 376.	2.5	4
70	Neutrino trapping effects on Λ^2 -stable neutron star matter. Nuclear Physics A, 2003, 719, C173-C176.	1.5	3
71	Publisher's Note: Latent heat of nuclear matter [Phys. Rev. C83, 024308 (2011)]. Physical Review C, 2011, 83, .	2.9	3
72	Two-meson exchange hyperonic three-body forces and consequences for neutron stars. Nuclear Physics A, 2013, 914, 433-437.	1.5	3

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73	An analytic parametrization of the hypernuclear matter equation of state. European Physical Journal A, 2022, 58, 1.	2.5	3
74	Hyperon effects on the properties of Λ^2 -stable neutron star matter. Nuclear Physics A, 2001, 691, 443-446.	1.5	2
75	Role of hyperons on the hadron-star to quark-star conversion mechanism. Nuclear Physics A, 2005, 754, 345-349.	1.5	2
76	Nucleation of Quark Matter in Proto-Neutron Stars. Progress of Theoretical Physics Supplement, 2010, 186, 32-38.	0.1	2
77	Charm Hadrons in Dense Matter. Few-Body Systems, 2011, 50, 351-353.	1.5	2
78	Effect of Tensor Correlations on the Density Dependence of the Nuclear Symmetry Energy. Symmetry, 2015, 7, 15-31.	2.2	2
79	Evolution of proto-neutron stars with hadron \rightarrow quark phase transition. Journal of Physics: Conference Series, 2012, 342, 012001.	0.4	1
80	Do hyperons exist in the neutron star interior?. AIP Conference Proceedings, 2019, , .	0.4	1
81	Spinodal instabilities of spin-polarized asymmetric nuclear matter. Physical Review C, 2020, 102, .	2.9	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.	3.6	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.	0.4	0
85	Symmetry Energy, Neutron Star Crust and Neutron Skin Thickness. Few-Body Systems, 2011, 50, 327-329.	1.5	0
86	Liquid-gas phase transition in nuclear matter in the mean-field approximation. Journal of Physics: Conference Series, 2011, 321, 012058.	0.4	0
87	Liquid-gas phase transition in nuclear matter: Mean-field and beyond. EPJ Web of Conferences, 2012, 31, 00003.	0.3	0
88	Symmetry energy within the BHF approach. Journal of Physics: Conference Series, 2012, 342, 012012.	0.4	0
89	Tensor force and the nuclear symmetry energy. Journal of Physics: Conference Series, 2013, 420, 012091.	0.4	0
90	Single-particle spectral function of the Λ hyperon in finite nuclei. AIP Conference Proceedings, 2019, , .	0.4	0

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91	Quark degrees of freedom and nuclear matter saturation. <i>Modern Physics Letters A</i> , 2019, 34, 1950322.	1.2	0
92	Nucleon–Nucleon Correlations and the Isospin and Spin Symmetry Energy. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2017, 10, 165.	0.1	0
93	GAMMA RAY BURSTS AND DELAYED QUARK-DECONFINEMENT. , 2006, , 353-375.		0