

# Isaac Vidana

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87  
papers

3,363  
citations

30  
h-index

57  
g-index

94  
ext. papers

3,724  
ext. citations

2.5  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
87	An analytic parametrization of the hypernuclear matter equation of state. <i>European Physical Journal A</i> , <b>2022</b> , 58, 1	2.5	1
86	Hyperons in Finite and Infinite Nuclear Systems. <i>Universe</i> , <b>2021</b> , 7, 376	2.5	1
85	Transport Coefficients of Hyperonic Neutron Star Cores. <i>Universe</i> , <b>2021</b> , 7, 203	2.5	2
84	A Modern View of the Equation of State in Nuclear and Neutron Star Matter. <i>Symmetry</i> , <b>2021</b> , 13, 400	2.7	5
83	Structure of single- $(\Lambda)$ hypernuclei with chiral hyperon-nucleon potentials. <i>European Physical Journal A</i> , <b>2020</b> , 56, 1	2.5	6
82	The Hellmann-Beynman theorem at finite temperature. <i>American Journal of Physics</i> , <b>2020</b> , 88, 503-510	0.7	2
81	Predictions for charmed nuclei based on $(Y_c N)$ forces inferred from lattice QCD simulations. <i>European Physical Journal A</i> , <b>2020</b> , 56, 1	2.5	1
80	The Equation of State of Nuclear Matter: From Finite Nuclei to Neutron Stars. <i>Universe</i> , <b>2020</b> , 6, 119	2.5	12
79	Quark degrees of freedom and nuclear matter saturation. <i>Modern Physics Letters A</i> , <b>2019</b> , 34, 1950322	1.3	
78	Asymmetry of the neutrino mean free path in hot neutron matter under strong magnetic fields. <i>Physical Review C</i> , <b>2019</b> , 99,	2.7	1
77	Impact of chiral hyperonic three-body forces on neutron stars. <i>European Physical Journal A</i> , <b>2019</b> , 55, 1	2.5	30
76	A short walk through the physics of neutron stars. <i>European Physical Journal Plus</i> , <b>2018</b> , 133, 1	3.1	9
75	Hyperons: the strange ingredients of the nuclear equation of state. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2018</b> , 474, 20180145	2.4	26
74	Single-particle spectral function of the $\Lambda$ hyperon in finite nuclei. <i>Nuclear Physics A</i> , <b>2017</b> , 958, 48-70	1.3	11
73	Hyperons in Neutron Stars. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 668, 012031	0.3	14
72	Do hyperons exist in the interior of neutron stars?. <i>European Physical Journal A</i> , <b>2016</b> , 52, 1	2.5	136
71	Excitation of $\Lambda$ and $N^*$ resonances in isobaric charge-exchange reactions of heavy nuclei. <i>EPJ Web of Conferences</i> , <b>2016</b> , 107, 10003	0.3	4

70	Role of correlations in spin-polarized neutron matter. <i>Physical Review C</i> , <b>2016</b> , 94,	2.7	5
69	Quark matter nucleation in neutron stars and astrophysical implications. <i>European Physical Journal A</i> , <b>2016</b> , 52, 1	2.5	53
68	Magnetic susceptibility and magnetization properties of asymmetric nuclear matter in a strong magnetic field. <i>Physical Review C</i> , <b>2015</b> , 91,	2.7	17
67	Effect of Tensor Correlations on the Density Dependence of the Nuclear Symmetry Energy. <i>Symmetry</i> , <b>2015</b> , 7, 15-31	2.7	0
66	Comparative study of three-nucleon force models in nuclear matter. <i>Physical Review C</i> , <b>2015</b> , 91,	2.7	26
65	Imprint of the symmetry energy on the inner crust and strangeness content of neutron stars. <i>European Physical Journal A</i> , <b>2014</b> , 50, 1	2.5	31
64	Tensor force effects and high-momentum components in the nuclear symmetry energy. <i>European Physical Journal A</i> , <b>2014</b> , 50, 1	2.5	17
63	Equation of state and thickness of the inner crust of neutron stars. <i>Physical Review C</i> , <b>2014</b> , 90,	2.7	61
62	Neutron matter under strong magnetic fields: A comparison of models. <i>Physical Review C</i> , <b>2014</b> , 89,	2.7	11
61	Hyperons and neutron stars. <i>Nuclear Physics A</i> , <b>2013</b> , 914, 367-376	1.3	13
60	Two-meson exchange hyperonic three-body forces and consequences for neutron stars. <i>Nuclear Physics A</i> , <b>2013</b> , 914, 433-437	1.3	3
59	Formation of hybrid stars from metastable hadronic stars. <i>Physical Review C</i> , <b>2013</b> , 88,	2.7	30
58	Tensor force and the nuclear symmetry energy. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 420, 012091	0.3	
57	Chiral model approach to quark matter nucleation in neutron stars. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	28
56	On kinematical constraints in boson-boson systems. <i>European Physical Journal A</i> , <b>2012</b> , 48, 1	2.5	16
55	Constraints on the symmetry energy and neutron skins from experiments and theory. <i>Physical Review C</i> , <b>2012</b> , 86,	2.7	47 <sup>0</sup>
54	Quark matter nucleation with a microscopic hadronic equation of state. <i>Physical Review C</i> , <b>2012</b> , 85,	2.7	21
53	Nuclear symmetry energy and the r-mode instability of neutron stars. <i>Physical Review C</i> , <b>2012</b> , 85,	2.7	35

52	Constraining the nuclear equation of state at subsaturation densities. <i>Physical Review Letters</i> , <b>2012</b> , 109, 092501	7.4	93
51	Comparative study of neutron and nuclear matter with simplified Argonne nucleon-nucleon potentials. <i>Physical Review C</i> , <b>2012</b> , 86,	2.7	54
50	Liquid-gas phase transition in nuclear matter: Mean-field and beyond. <i>EPJ Web of Conferences</i> , <b>2012</b> , 31, 00003	0.3	
49	Symmetry energy within the BHF approach. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 342, 012012	0.3	
48	Effect of hyperonic three-body forces on the maximum mass of neutron stars. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 342, 012006	0.3	15
47	Evolution of proto-neutron stars with hadron-quark phase transition. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 342, 012001	0.3	1
46	Evolution of newborn neutron stars: role of quark matter nucleation. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 336, 012021	0.3	
45	Effects of quark matter nucleation on the evolution of proto-neutron stars. <i>Astronomy and Astrophysics</i> , <b>2011</b> , 528, A71	5.1	30
44	Charm Hadrons in Dense Matter. <i>Few-Body Systems</i> , <b>2011</b> , 50, 351-353	1.6	2
43	Symmetry Energy, Neutron Star Crust and Neutron Skin Thickness. <i>Few-Body Systems</i> , <b>2011</b> , 50, 327-329	1.6	
42	Estimation of the effect of hyperonic three-body forces on the maximum mass of neutron stars. <i>Europhysics Letters</i> , <b>2011</b> , 94, 11002	1.6	126
41	Publisher's Note: Latent heat of nuclear matter [Phys. Rev. C 83, 024308 (2011)]. <i>Physical Review C</i> , <b>2011</b> , 83,	2.7	3
40	Core-crust transition in neutron stars: Predictivity of density developments. <i>Physical Review C</i> , <b>2011</b> , 83,	2.7	124
39	Liquid-gas phase transition in nuclear matter in the mean-field approximation. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 321, 012058	0.3	
38	Open-charm mesons in nuclear matter at finite temperature beyond the zero-range approximation. <i>Physical Review C</i> , <b>2011</b> , 84,	2.7	26
37	Nuclear symmetry energy and the role of the tensor force. <i>Physical Review C</i> , <b>2011</b> , 84,	2.7	65
36	Latent heat of nuclear matter. <i>Physical Review C</i> , <b>2011</b> , 83,	2.7	8
35	Nucleation of Quark Matter in Proto-Neutron Stars. <i>Progress of Theoretical Physics Supplement</i> , <b>2010</b> , 186, 32-38		2

34	Microscopic calculations of transport properties of neutron matter. <i>Physical Review C</i> , <b>2010</b> , 81,	2.7	22
33	Nucleon-Nucleon Interactions from the Quark Model <b>2010</b> ,		5
32	Medium effects on intermediate-energy one-nucleon removal cross sections. <i>Physical Review C</i> , <b>2009</b> , 79,	2.7	6
31	Dynamically generated open-charm baryons beyond the zero-range approximation. <i>Physical Review C</i> , <b>2009</b> , 80,	2.7	64
30	Density dependence of the nuclear symmetry energy: A microscopic perspective. <i>Physical Review C</i> , <b>2009</b> , 80,	2.7	161
29	Quark matter nucleation in hot hadronic matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2009</b> , 680, 448-452	4.2	55
28	Hot neutron matter from a self-consistent Green's-functions approach. <i>Physical Review C</i> , <b>2009</b> , 79,	2.7	58
27	Metastability of hadronic compact stars. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	38
26	Role of color superconductivity on the nucleation of quark matter in neutron stars. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2008</b> , 35, 014054	2.9	
25	Hyperons and the neutron drip line. <i>Physical Review C</i> , <b>2008</b> , 78,	2.7	43
24	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> , <b>2008</b> , 666, 232-238	4.2	13
23	Effects of color superconductivity on the nucleation of quark matter in neutron stars. <i>Astronomy and Astrophysics</i> , <b>2007</b> , 462, 1017-1022	5.1	52
22	Ferromagnetic instabilities in neutron matter at finite temperature with the Gogny interaction. <i>Physical Review C</i> , <b>2006</b> , 74,	2.7	25
21	Maximum mass of neutron stars. <i>Physical Review C</i> , <b>2006</b> , 73,	2.7	123
20	Microscopic calculations of spin polarized neutron matter at finite temperature. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2006</b> , 632, 638-643	4.2	47
19	GAMMA RAY BURSTS AND DELAYED QUARK-DECONFINEMENT <b>2006</b> , 353-375		
18	Ferromagnetic instabilities in neutron matter at finite temperature with the Skyrme interaction. <i>Physical Review C</i> , <b>2005</b> , 71,	2.7	57
17	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> , <b>2005</b> , 609, 232-240	4.2	19

16	Role of hyperons on the hadron-star to quark-star conversion mechanism. <i>Nuclear Physics A</i> , <b>2005</b> , 754, 345-349	1.3	2
15	Bulk and single-particle properties of hyperonic matter at finite temperature. <i>Physical Review C</i> , <b>2005</b> , 72,	2.7	12
14	Quark deconfinement and neutrino trapping in compact stars. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2005</b> , 31, S1165-S1169	2.9	14
13	Bound energy from the Nijmegen potentials. <i>Physical Review C</i> , <b>2004</b> , 70,	2.7	26
12	Superfluidity of hyperons in stable neutron star matter. <i>Physical Review C</i> , <b>2004</b> , 70,	2.7	23
11	Quark Deconfinement and Implications for the Radius and the Limiting Mass of Compact Stars. <i>Astrophysical Journal</i> , <b>2004</b> , 614, 314-325	4.7	142
10	Microscopic study of neutrino trapping in hyperon stars. <i>Astronomy and Astrophysics</i> , <b>2003</b> , 399, 687-693	5.1	34
9	Neutrino trapping effects on stable neutron star matter. <i>Nuclear Physics A</i> , <b>2003</b> , 719, C173-C176	1.3	3
8	Microscopic calculation of the neutrino mean free path inside hot neutron matter. <i>Physical Review C</i> , <b>2003</b> , 68,	2.7	23
7	Spin polarized neutron matter and magnetic susceptibility within the Brueckner-Hartree-Fock approximation. <i>Physical Review C</i> , <b>2002</b> , 65,	2.7	72
6	Equation of state and magnetic susceptibility of spin polarized isospin asymmetric nuclear matter. <i>Physical Review C</i> , <b>2002</b> , 66,	2.7	81
5	Hyperon effects on the properties of stable neutron star matter. <i>Nuclear Physics A</i> , <b>2001</b> , 691, 443-446	1.3	2
4	Hypernuclear structure with the new Nijmegen potentials. <i>Physical Review C</i> , <b>2001</b> , 64,	2.7	78
3	Strange nuclear matter within Brueckner-Hartree-Fock theory. <i>Physical Review C</i> , <b>2000</b> , 61,	2.7	90
2	Hyperon-hyperon interactions and properties of neutron star matter. <i>Physical Review C</i> , <b>2000</b> , 62,	2.7	134
1	Hyperon properties in finite nuclei using realistic YN interactions. <i>Nuclear Physics A</i> , <b>1998</b> , 644, 201-220	1.3	42