

# Isaac Vidana

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1404089/isaac-vidana-publications-by-citations.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Constraints on the symmetry energy and neutron skins from experiments and theory. <i>Physical Review C</i> , <b>2012</b> , 86,	2.7	470
86	Density dependence of the nuclear symmetry energy: A microscopic perspective. <i>Physical Review C</i> , <b>2009</b> , 80,	2.7	161
85	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
84	Do hyperons exist in the interior of neutron stars?. <i>European Physical Journal A</i> , <b>2016</b> , 52, 1	2.5	136
83	Hyperon-hyperon interactions and properties of neutron star matter. <i>Physical Review C</i> , <b>2000</b> , 62,	2.7	134
82	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
81	Core-crust transition in neutron stars: Predictivity of density developments. <i>Physical Review C</i> , <b>2011</b> , 83,	2.7	124
80	Maximum mass of neutron stars. <i>Physical Review C</i> , <b>2006</b> , 73,	2.7	123
79	Constraining the nuclear equation of state at subsaturation densities. <i>Physical Review Letters</i> , <b>2012</b> , 109, 092501	7.4	93
78	Strange nuclear matter within Brueckner-Hartree-Fock theory. <i>Physical Review C</i> , <b>2000</b> , 61,	2.7	90
77	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
76	Hypernuclear structure with the new Nijmegen potentials. <i>Physical Review C</i> , <b>2001</b> , 64,	2.7	78
75	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
74	Nuclear symmetry energy and the role of the tensor force. <i>Physical Review C</i> , <b>2011</b> , 84,	2.7	65
73	Dynamically generated open-charm baryons beyond the zero-range approximation. <i>Physical Review C</i> , <b>2009</b> , 80,	2.7	64
72	Equation of state and thickness of the inner crust of neutron stars. <i>Physical Review C</i> , <b>2014</b> , 90,	2.7	61
71	Hot neutron matter from a self-consistent Green's-functions approach. <i>Physical Review C</i> , <b>2009</b> , 79,	2.7	58

70	Ferromagnetic instabilities in neutron matter at finite temperature with the Skyrme interaction. <i>Physical Review C</i> , <b>2005</b> , 71,	2.7	57
69	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
68	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
67	Quark matter nucleation in neutron stars and astrophysical implications. <i>European Physical Journal A</i> , <b>2016</b> , 52, 1	2.5	53
66	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
65	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
64	Hyperons and the neutron drip line. <i>Physical Review C</i> , <b>2008</b> , 78,	2.7	43
63	Hyperon properties in finite nuclei using realistic YN interactions. <i>Nuclear Physics A</i> , <b>1998</b> , 644, 201-220	1.3	42
62	Metastability of hadronic compact stars. <i>Physical Review D</i> , <b>2008</b> , 77,	4.9	38
61	Nuclear symmetry energy and the r-mode instability of neutron stars. <i>Physical Review C</i> , <b>2012</b> , 85,	2.7	35
60	Microscopic study of neutrino trapping in hyperon stars. <i>Astronomy and Astrophysics</i> , <b>2003</b> , 399, 687-693	5.1	34
59	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
58	Formation of hybrid stars from metastable hadronic stars. <i>Physical Review C</i> , <b>2013</b> , 88,	2.7	30
57	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
56	Impact of chiral hyperonic three-body forces on neutron stars. <i>European Physical Journal A</i> , <b>2019</b> , 55, 1	2.5	30
55	Chiral model approach to quark matter nucleation in neutron stars. <i>Physical Review D</i> , <b>2012</b> , 85,	4.9	28
54	Comparative study of three-nucleon force models in nuclear matter. <i>Physical Review C</i> , <b>2015</b> , 91,	2.7	26
53	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

52	Bond energy from the Nijmegen potentials. <i>Physical Review C</i> , <b>2004</b> , 70,	2.7	26
51	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
50	Ferromagnetic instabilities in neutron matter at finite temperature with the Gogny interaction. <i>Physical Review C</i> , <b>2006</b> , 74,	2.7	25
49	Superfluidity of Hyperons in Stable neutron star matter. <i>Physical Review C</i> , <b>2004</b> , 70,	2.7	23
48	Microscopic calculation of the neutrino mean free path inside hot neutron matter. <i>Physical Review C</i> , <b>2003</b> , 68,	2.7	23
47	Microscopic calculations of transport properties of neutron matter. <i>Physical Review C</i> , <b>2010</b> , 81,	2.7	22
46	Quark matter nucleation with a microscopic hadronic equation of state. <i>Physical Review C</i> , <b>2012</b> , 85,	2.7	21
45	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
44	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
43	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
42	On kinematical constraints in boson-boson systems. <i>European Physical Journal A</i> , <b>2012</b> , 48, 1	2.5	16
41	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
40	Hyperons in Neutron Stars. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 668, 012031	0.3	14
39	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
38	Hyperons and neutron stars. <i>Nuclear Physics A</i> , <b>2013</b> , 914, 367-376	1.3	13
37	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
36	Bulk and single-particle properties of hyperonic matter at finite temperature. <i>Physical Review C</i> , <b>2005</b> , 72,	2.7	12
35	The Equation of State of Nuclear Matter: From Finite Nuclei to Neutron Stars. <i>Universe</i> , <b>2020</b> , 6, 119	2.5	12

34	Single-particle spectral function of the hyperon in finite nuclei. <i>Nuclear Physics A</i> , <b>2017</b> , 958, 48-70	1.3	11
33	Neutron matter under strong magnetic fields: A comparison of models. <i>Physical Review C</i> , <b>2014</b> , 89,	2.7	11
32	A short walk through the physics of neutron stars. <i>European Physical Journal Plus</i> , <b>2018</b> , 133, 1	3.1	9
31	Latent heat of nuclear matter. <i>Physical Review C</i> , <b>2011</b> , 83,	2.7	8
30	Structure of single- $\Lambda$ hypernuclei with chiral hyperon-nucleon potentials. <i>European Physical Journal A</i> , <b>2020</b> , 56, 1	2.5	6
29	Medium effects on intermediate-energy one-nucleon removal cross sections. <i>Physical Review C</i> , <b>2009</b> , 79,	2.7	6
28	Nucleon-Nucleon Interactions from the Quark Model <b>2010</b> ,		5
27	Role of correlations in spin-polarized neutron matter. <i>Physical Review C</i> , <b>2016</b> , 94,	2.7	5
26	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
25	Excitation of $\Lambda$ resonances in isobaric charge-exchange reactions of heavy nuclei. <i>EPJ Web of Conferences</i> , <b>2016</b> , 107, 10003	0.3	4
24	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
23	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
22	Neutrino trapping effects on stable neutron star matter. <i>Nuclear Physics A</i> , <b>2003</b> , 719, C173-C176	1.3	3
21	Charm Hadrons in Dense Matter. <i>Few-Body Systems</i> , <b>2011</b> , 50, 351-353	1.6	2
20	Nucleation of Quark Matter in Proto-Neutron Stars. <i>Progress of Theoretical Physics Supplement</i> , <b>2010</b> , 186, 32-38		2
19	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
18	Hyperon effects on the properties of stable neutron star matter. <i>Nuclear Physics A</i> , <b>2001</b> , 691, 443-446	1.3	2
17	The Hellmann-Beynman theorem at finite temperature. <i>American Journal of Physics</i> , <b>2020</b> , 88, 503-510	0.7	2

16	Transport Coefficients of Hyperonic Neutron Star Cores. <i>Universe</i> , <b>2021</b> , 7, 203	2.5	2
15	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
14	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
13	Hyperons in Finite and Infinite Nuclear Systems. <i>Universe</i> , <b>2021</b> , 7, 376	2.5	1
12	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
11	An analytic parametrization of the hypernuclear matter equation of state. <i>European Physical Journal A</i> , <b>2022</b> , 58, 1	2.5	1
10	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
9	Quark degrees of freedom and nuclear matter saturation. <i>Modern Physics Letters A</i> , <b>2019</b> , 34, 1950322	1.3	
8	Tensor force and the nuclear symmetry energy. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 420, 012091	0.3	
7	Evolution of newborn neutron stars: role of quark matter nucleation. <i>Journal of Physics: Conference Series</i> , <b>2011</b> , 336, 012021	0.3	
6	Symmetry Energy, Neutron Star Crust and Neutron Skin Thickness. <i>Few-Body Systems</i> , <b>2011</b> , 50, 327-329	1.6	
5	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	
4	Liquid-gas phase transition in nuclear matter: Mean-field and beyond. <i>EPJ Web of Conferences</i> , <b>2012</b> , 31, 00003	0.3	
3	Symmetry energy within the BHF approach. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 342, 012012	0.3	
2	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	
1	GAMMA RAY BURSTS AND DELAYED QUARK-DECONFINEMENT <b>2006</b> , 353-375		