Helena Pais

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1075416/publications.pdf

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40	881	430874	454955
papers	citations	18 h-index	30 g-index

41	41	41	434
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Equation of state and thickness of the inner crust of neutron stars. Physical Review C, 2014, 90, .	2.9	92
2	Exploring the Nuclear Pasta Phase in Core-Collapse Supernova Matter. Physical Review Letters, 2012, 109, 151101.	7.8	90
3	Quarkâ€“hadron phase transition in a neutron star under strong magnetic fields. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 115204.	3.6	71
4	Strong correlations of neutron star radii with the slopes of nuclear matter incompressibility and symmetry energy at saturation. Physical Review C, 2016, 94, .	2.9	66
5	Vlasov formalism for extended relativistic mean field models: The crust-core transition and the stellar matter equation of state. Physical Review C, 2016, 94, .	2.9	63
6	What do we learn about vector interactions from GW170817?. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 034002.	3.6	49
7	Light clusters, pasta phases, and phase transitions in core-collapse supernova matter. Physical Review C, 2015, 91, .	2.9	43
8	Hyperonic Stars and the Nuclear Symmetry Energy. Frontiers in Astronomy and Space Sciences, 2019, 6, .	2.8	36
9	Light clusters in warm stellar matter: Explicit mass shifts and universal cluster-meson couplings. Physical Review C, 2018, 97, .	2.9	27
10	Correlation of the neutron star crust-core properties with the slope of the symmetry energy and the lead skin thickness. Physical Review C, 2016, 93, .	2.9	26
11	Phase transitions in core-collapse supernova matter at sub-saturation densities. Physical Review C, 2014, 90, .	2.9	22
12	Light clusters and pasta phases in warm and dense nuclear matter. Physical Review C, 2017, 95, .	2.9	22
13	Effect of strong magnetic fields on the crust-core transition and inner crust of neutron stars. Physical Review C, 2017, 95, .	2.9	22
14	Low Density In-Medium Effects on Light Clusters from Heavy-Ion Data. Physical Review Letters, 2020, 125, 012701.	7.8	22
15	Dynamical properties of nuclear and stellar matter and the symmetry energy. Physical Review C, 2010, 82, .	2.9	21
16	Full distribution of clusters with universal couplings and in-medium effects. Physical Review C, 2019, 99, .	2.9	21
17	Limiting magnetic field for minimal deformation of a magnetized neutron star. Astronomy and Astrophysics, 2019, 627, A61.	5.1	20
18	Crust-core transition of a neutron star: Effects of the symmetry energy and temperature under strong magnetic fields. Physical Review C, 2017, 95, .	2.9	19

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19	Dynamical instabilities of warm<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="italic">npe</mml:mi></mml:mrow></mml:math>matter:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î´</mml:mi></mml:mrow></mml:math>meson effects. Physical Review C, 2009, 80, .	2.9	18
20	Larger and more heterogeneous neutron star crusts: A result of strong magnetic fields. Physical Review C, 2016, 94, .	2.9	18
21	Neutron stars: From the inner crust to the core with the (extended) Nambuâ€“Jona-Lasinio model. Physical Review C, 2016, 93, .	2.9	18
22	Warm unstable asymmetric nuclear matter: Critical properties and the density dependence of the symmetry energy. Physical Review C, 2017, 95, .	2.9	13
23	Improved method for the experimental determination of in-medium effects from heavy-ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 105204.	3.6	10
24	Light and heavy clusters in warm stellar matter. Nuclear Science and Techniques/Hewuli, 2018, 29, 1.	3.4	8
25	Neutron star inner crust: Effects of rotation and magnetic fields. Physical Review D, 2020, 102, .	4.7	8
26	COMPARISON OF EQUATION OF STATE MODELS WITH DIFFERENT CLUSTER DISSOLUTION MECHANISMS. , 2017, , 95-132.		7
27	Light clusters in warm stellar matter: calibrating the cluster couplings. European Physical Journal A, 2020, 56, 1.	2.5	7
28	Strong magnetic fields: neutron stars with an extended inner crust. European Physical Journal A, 2021, 57, 1.	2.5	7
29	Stability of the neutron-proton-electron matter under strong magnetic fields: The covariant Vlasov approach. Physical Review C, 2018, 98, .	2.9	5
30	Light element ($$Z=1,2$$) production from spontaneous ternary fission of ^{252}Cf. European Physical Journal A, 2020, 56, 1.	2.5	5
31	Critical properties of calibrated relativistic mean-field models for the transition to warm, nonhomogeneous nuclear and stellar matter. Physical Review C, 2021, 103, .	2.9	4
32	Nonequilibrium information entropy approach to ternary fission of actinides. Physical Review C, 2021, 103, .	2.9	4
33	Light hyperclusters and hyperons in low-density hot stellar matter. Physical Review C, 2021, 104, .	2.9	4
34	Pasta phases in neutron stars under strong magnetic fields. Physical Review D, 2022, 105, .	4.7	4
35	Isotopic equilibrium constants for very low-density and low-temperature nuclear matter. Physical Review C, 2020, 102, .	2.9	3
36	Heavy baryons in hot stellar matter with light nuclei and hypernuclei. Physical Review C, 2022, 105, .	2.9	2

#	Article	IF	Citations
37	Binding energy shifts from heavy-ion experiments in a nuclear statistical equilibrium model. European Physical Journal A, 2021, 57, 1.	2.5	1
38	Dynamical instabilities of warm n pe matter: the Î´ meson effects. , 2010, , .		0
39	Pasta phases in core-collapse supernova matter. Journal of Physics: Conference Series, 2016, 706, 042007.	0.4	0
40	Landau parameters and entrainment matrix of cold stellar matter: effect of the symmetry energy and strong magnetic fields. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 024.	5.4	0