Sophia Han

List of Publications by Year in descending order

29 papers	1,480 citations	393982 19 h-index	500791 28 g-index
29 all docs	29 docs citations	29 times ranked	881 citing authors

#	Article	IF	Citations
1	Generic conditions for stable hybrid stars. Physical Review D, 2013, 88, .	1.6	289
2	Constraining the mass and radius of neutron stars in globular clusters. Monthly Notices of the Royal Astronomical Society, 2018, 476, 421-435.	1.6	111
3	Constraining and applying a generic high-density equation of state. Physical Review D, 2015, 92, .	1.6	98
4	Tidal deformability with sharp phase transitions in binary neutron stars. Physical Review D, 2019, 99, .	1.6	97
5	Impact of the PSR <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">J</mml:mi><mml:mn>0740</mml:mn><mml:mo>+</mml:mo><mml:mn>6620</mml:mn></mml:mrow></mm radius constraint on the properties of high-density matter. Physical Review D, 2021, 104, .	1.6	93
6	GW190814 as a massive rapidly rotating neutron star with exotic degrees of freedom. Physical Review C, 2021, 103, .	1.1	85
7	Limiting masses and radii of neutron stars and their implications. Physical Review C, 2021, 103, .	1.1	76
8	Studying strong phase transitions in neutron stars with gravitational waves. Physical Review D, 2020, 101, .	1.6	60
9	Constant-sound-speed parametrization for Nambuâ€“Jona-Lasinio models of quark matter in hybrid stars. Physical Review C, 2016, 93, .	1.1	57
10	Characteristics of hybrid compact stars with a sharp hadron-quark interface. European Physical Journal A, 2016, 52, 1.	1.0	57
11	Combining Electromagnetic and Gravitational-Wave Constraints on Neutron-Star Masses and Radii. Physical Review Letters, 2021, 126, 061101.	2.9	57
12	Treating quarks within neutron stars. Physical Review D, 2019, 100, .	1.6	56
13	Signatures for quark matter from multi-messenger observations. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 114001.	1.4	44
14	Constraints on the Maximum Mass of Neutron Stars with a Quark Core from GW170817 and NICER PSR J0030+0451 Data. Astrophysical Journal, 2021, 913, 27.	1.6	42
15	Constraining Hadron-quark Phase Transition Parameters within the Quark-mean-field Model Using Multimessenger Observations of Neutron Stars. Astrophysical Journal, 2020, 904, 103.	1.6	38
16	On the Minimum Radius of Very Massive Neutron Stars. Astrophysical Journal, 2020, 899, 164.	1.6	33
17	Neutron star mass limit at 2MâŠ™ supports the existence of a CEP. European Physical Journal A, 2016, 52, 1.	1.0	27
18	Phase conversion dissipation in multicomponent compact stars. Physical Review C, 2015, 91, .	1.1	26

#	Article	IF	Citations
19	Constraining superfluidity in dense matter from the cooling of isolated neutron stars. Physical Review C, 2018, 97, .	1.1	25
20	Large and massive neutron stars: Implications for the sound speed within QCD of dense matter. Physical Review C, 2022, 105, .	1.1	18
21	Cooling of neutron stars in soft x-ray transients. Physical Review C, 2017, 96, .	1.1	16
22	Simultaneous fitting of neutron star structure and cooling data. Physical Review C, 2019, 100, .	1.1	16
23	Can magnetic fields (de)stabilize twin stars?. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4873-4877.	1.6	15
24	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi></mml:math> modes of neutron stars with hadron-to-quark crossover transitions. Physical Review D, 2021, 104, .	1.6	15
25	Color superconductivity in compact stellar hybrid configurations. Physical Review C, 2017, 96, .	1.1	12
26	Modeling Iridium-Based Trilayer and Bilayer Transition-Edge Sensors. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	7
27	Controlling T c of iridium films using the proximity effect. Journal of Applied Physics, 2020, 128, .	1.1	7
28	Generic Conditions for Stable Hybrid Stars. , 2014, , .		2
29	Observability of sharp phase transitions in neutron stars. AIP Conference Proceedings, 2019, , .	0.3	1