

Sophia Han

List of Publications by Year in descending order

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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	Large and massive neutron stars: Implications for the sound speed within QCD of dense matter. Physical Review C, 2022, 105, .	1.1	18
2	Combining Electromagnetic and Gravitational-Wave Constraints on Neutron-Star Masses and Radii. Physical Review Letters, 2021, 126, 061101.	2.9	57
3	GW190814 as a massive rapidly rotating neutron star with exotic degrees of freedom. Physical Review C, 2021, 103, .	1.1	85
4	Limiting masses and radii of neutron stars and their implications. Physical Review C, 2021, 103, .	1.1	76
5	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
6	Impact of the PSR $J0740+6620$ radius constraint on the properties of high-density matter. Physical Review D, 2021, 104, .	1.6	93
7	g modes of neutron stars with hadron-to-quark crossover transitions. Physical Review D, 2021, 104, .	1.6	15
8	Controlling T_c of iridium films using the proximity effect. Journal of Applied Physics, 2020, 128, .	1.1	7
9	Studying strong phase transitions in neutron stars with gravitational waves. Physical Review D, 2020, 101, .	1.6	60
10	On the Minimum Radius of Very Massive Neutron Stars. Astrophysical Journal, 2020, 899, 164.	1.6	33
11	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
12	Observability of sharp phase transitions in neutron stars. AIP Conference Proceedings, 2019, , .	0.3	1
13	Signatures for quark matter from multi-messenger observations. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 114001.	1.4	44
14	Can magnetic fields (de)stabilize twin stars?. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4873-4877.	1.6	15
15	Tidal deformability with sharp phase transitions in binary neutron stars. Physical Review D, 2019, 99, .	1.6	97
16	Treating quarks within neutron stars. Physical Review D, 2019, 100, .	1.6	56
17	Simultaneous fitting of neutron star structure and cooling data. Physical Review C, 2019, 100, .	1.1	16
18	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

#	ARTICLE	IF	CITATIONS
19	Constraining superfluidity in dense matter from the cooling of isolated neutron stars. <i>Physical Review C</i> , 2018, 97, .	1.1	25
20	Modeling Iridium-Based Trilayer and Bilayer Transition-Edge Sensors. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-5.	1.1	7
21	Cooling of neutron stars in soft x-ray transients. <i>Physical Review C</i> , 2017, 96, .	1.1	16
22	Color superconductivity in compact stellar hybrid configurations. <i>Physical Review C</i> , 2017, 96, .	1.1	12
23	Neutron star mass limit at $2M_{\text{Å}}^{\text{TM}}$ supports the existence of a CEP. <i>European Physical Journal A</i> , 2016, 52, 1.	1.0	27
24	Constant-sound-speed parametrization for Nambu–Jona-Lasinio models of quark matter in hybrid stars. <i>Physical Review C</i> , 2016, 93, .	1.1	57
25	Characteristics of hybrid compact stars with a sharp hadron-quark interface. <i>European Physical Journal A</i> , 2016, 52, 1.	1.0	57
26	Phase conversion dissipation in multicomponent compact stars. <i>Physical Review C</i> , 2015, 91, .	1.1	26
27	Constraining and applying a generic high-density equation of state. <i>Physical Review D</i> , 2015, 92, .	1.6	98
28	Generic Conditions for Stable Hybrid Stars. , 2014, , .		2
29	Generic conditions for stable hybrid stars. <i>Physical Review D</i> , 2013, 88, .	1.6	289