

# Madappa Prakash

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

10,690  
citations

101384

36  
h-index

168136

53  
g-index

60  
all docs

60  
docs citations

60  
times ranked

3923  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quasinormal $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">g \rangle$ modes of neutron stars with quarks. Physical Review D, 2022, 105, .	1.6	12
2	Limiting masses and radii of neutron stars and their implications. Physical Review C, 2021, 103, .	1.1	76
3	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">g \rangle$ -mode oscillations in hybrid stars: A tale of two sounds. Physical Review D, 2021, 103, .	1.6	25
4	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">g \rangle$ modes of neutron stars with hadron-to-quark crossover transitions. Physical Review D, 2021, 104, .	1.6	15
5	NS 1987A in SN 1987A. Astrophysical Journal, 2020, 898, 125.	1.6	52
6	On the Minimum Radius of Very Massive Neutron Stars. Astrophysical Journal, 2020, 899, 164.	1.6	33
7	Akmal-Pandharipande-Ravenhall equation of state for simulations of supernovae, neutron stars, and binary mergers. Physical Review C, 2019, 100, .	1.1	49
8	Dense matter equation of state for neutron star mergers. European Physical Journal A, 2019, 55, 1.	1.0	18
9	Treating quarks within neutron stars. Physical Review D, 2019, 100, .	1.6	56
10	Pairing properties from random distributions of single-particle energy levels. Physical Review C, 2018, 97, .	1.1	3
11	Thermal effects in dense matter beyond mean field theory. International Journal of Modern Physics E, 2017, 26, 1740005.	0.4	3
12	Enforcing causality in nonrelativistic equations of state at finite temperature. Physical Review C, 2017, 95, .	1.1	5
13	Thermal effects in dense matter beyond mean field theory. , 2017, , 33-52.		0
14	Hot and dense matter beyond relativistic mean field theory. Physical Review C, 2016, 93, .	1.1	9
15	The equation of state of hot, dense matter and neutron stars. Physics Reports, 2016, 621, 127-164.	10.3	418
16	Thermal properties of hot and dense matter with finite range interactions. Physical Review C, 2015, 92, .	1.1	51
17	Neutron stars as probes of extreme energy density matter. Pramana - Journal of Physics, 2015, 84, 927-941.	0.9	4
18	Degenerate limit thermodynamics beyond leading order for models of dense matter. Annals of Physics, 2015, 363, 533-555.	1.0	16

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19	Thermal properties of supernova matter: The bulk homogeneous phase. <i>Physical Review C</i> , 2014, 89, .	1.1	55
20	Stellar Superfluids. , 2014, , 505-579.		58
21	Generic Conditions for Stable Hybrid Stars. , 2014, , .		2
22	Generic conditions for stable hybrid stars. <i>Physical Review D</i> , 2013, 88, .	1.6	289
23	Shear viscosity of hadrons with K-matrix cross sections. <i>Physical Review C</i> , 2013, 88, .	1.1	27
24	THERMAL AND TRANSPORT PROPERTIES OF A NONRELATIVISTIC QUANTUM GAS INTERACTING THROUGH A DELTA-SHELL POTENTIAL. <i>International Journal of Modern Physics E</i> , 2013, 22, 1330023.	0.4	0
25	Comparison of viscosities from the Chapman-Enskog and relaxation time methods. <i>Open Physics</i> , 2012, 10, .	0.8	10
26	What a Two Solar Mass Neutron Star Really Means. , 2011, , 275-304.		35
27	Rapid Cooling of the Neutron Star in Cassiopeia A Triggered by Neutron Superfluidity in Dense Matter. <i>Physical Review Letters</i> , 2011, 106, 081101.	2.9	353
28	Transport Properties of a Non-Relativistic Delta-Shell Gas with Long Scattering Lengths. , 2011, , 367-378.		1
29	Tidal Love numbers of neutron and self-bound quark stars. <i>Physical Review D</i> , 2010, 82, .	1.6	273
30	NEUTRINO EMISSION FROM COOPER PAIRS AND MINIMAL COOLING OF NEUTRON STARS. <i>Astrophysical Journal</i> , 2009, 707, 1131-1140.	1.6	187
31	Shear viscosity of the outer crust of neutron stars: Ion contributions. <i>Physical Review C</i> , 2008, 78, .	1.1	5
32	Muon production in low-energy electron-nucleon and electron-nucleus scattering. <i>Physical Review D</i> , 2007, 76, .	1.6	1
33	Neutron star observations: Prognosis for equation of state constraints. <i>Physics Reports</i> , 2007, 442, 109-165.	10.3	1,097
34	Isospin asymmetry in nuclei and neutron stars. <i>Physics Reports</i> , 2005, 411, 325-375.	10.3	802
35	The Physics of Neutron Stars. <i>Science</i> , 2004, 304, 536-542.	6.0	1,078
36	Minimal Cooling of Neutron Stars: A New Paradigm. <i>Astrophysical Journal, Supplement Series</i> , 2004, 155, 623-650.	3.0	436

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37	Effects of strong magnetic fields in strange baryonic matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 531, 167-174.	1.5	111
38	NEUTRINOPROPAGATION INDENSEASTROPHYSICALSYSTEMS. Annual Review of Nuclear and Particle Science, 2001, 51, 295-344.	3.5	50
39	Neutron Star Structure and the Equation of State. Astrophysical Journal, 2001, 550, 426-442.	1.6	1,290
40	Effects of Strong Magnetic Fields on Neutron Star Structure. Astrophysical Journal, 2001, 554, 322-339.	1.6	248
41	Evolution of Proto-Neutron Stars with Kaon Condensates. Astrophysical Journal, 2001, 553, 382-393.	1.6	79
42	Evolution of Proto-Neutron Stars with Quarks. Physical Review Letters, 2001, 86, 5223-5226.	2.9	139
43	Quark-hadron phase transitions in Young and old neutron stars. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 486, 239-248.	1.5	92
44	The Equation of State of Neutron Star Matter in Strong Magnetic Fields. Astrophysical Journal, 2000, 537, 351-367.	1.6	293
45	Composition and structure of protoneutron stars. Physics Reports, 1997, 280, 1-77.	10.3	636
46	Rapid cooling of neutron stars. Physics Reports, 1994, 242, 297-312.	10.3	38
47	Rapid cooling and the structure of neutron stars. Astrophysical Journal, 1994, 425, 802.	1.6	169
48	Relativistic nuclear matter with composite nucleons. Physical Review C, 1992, 45, 2518-2521.	1.1	22
49	Thermal properties of interacting hadrons. Nuclear Physics A, 1992, 546, 718-760.	0.6	193
50	Direct URCA process in neutron stars. Physical Review Letters, 1991, 66, 2701-2704.	2.9	638
51	Rapidly rotating pulsars and the equation of state. Astrophysical Journal, 1990, 355, 241.	1.6	110
52	Rotation of stars containing strange quark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 243, 175-180.	1.5	42
53	Transverse momenta, nuclear equation of state, and momentum-dependent interactions in heavy-ion collisions. Physical Review C, 1990, 41, 1545-1552.	1.1	144
54	Azimuthal distributions in heavy ion collisions and the nuclear equation of state. Physical Review C, 1988, 38, 2101-2107.	1.1	144

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55	Equation of State and the Maximum Mass of Neutron Stars. Physical Review Letters, 1988, 61, 2518-2521.	2.9	273
56	Momentum dependence, Boltzmann-Uehling-Uhlenbeck calculations, and transverse momenta. Physical Review C, 1988, 37, 2253-2256.	1.1	27
57	Equation of state of dense nuclear matter. Nuclear Physics A, 1987, 464, 740-768.	0.6	91
58	The nuclear symmetry energy in relativistic Brueckner-Hartree-Fock calculations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 199, 469-474.	1.5	247
59	Effective mass in nuclei and the level density parameter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1983, 128, 141-146.	1.5	60