

Mark G Alford

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

4,553
citations

201674

27
h-index

233421

45
g-index

52
all docs

52
docs citations

52
times ranked

1587
citing authors

#	ARTICLE	IF	CITATIONS
1	Color superconductivity in dense quark matter. <i>Reviews of Modern Physics</i> , 2008, 80, 1455-1515.	45.6	1,014
2	Color-flavor locking and chiral symmetry breaking in high density QCD. <i>Nuclear Physics B</i> , 1999, 537, 443-458.	2.5	959
3	COLOR-SUPERCONDUCTING QUARK MATTER. <i>Annual Review of Nuclear and Particle Science</i> , 2001, 51, 131-160.	10.2	447
4	Generic conditions for stable hybrid stars. <i>Physical Review D</i> , 2013, 88, .	4.7	289
5	Minimal color-flavor-locked nuclear interface. <i>Physical Review D</i> , 2001, 64, .	4.7	224
6	Gapless Color-Flavor-Locked Quark Matter. <i>Physical Review Letters</i> , 2004, 92, 222001.	7.8	182
7	Compact Stars with Sequential QCD Phase Transitions. <i>Physical Review Letters</i> , 2017, 119, 161104.	7.8	123
8	Viscous Dissipation and Heat Conduction in Binary Neutron-Star Mergers. <i>Physical Review Letters</i> , 2018, 120, 041101.	7.8	107
9	Constraining and applying a generic high-density equation of state. <i>Physical Review D</i> , 2015, 92, .	4.7	98
10	Single color and single flavor color superconductivity. <i>Physical Review D</i> , 2003, 67, .	4.7	87
11	Stability of strange star crusts and strangelets. <i>Physical Review D</i> , 2006, 73, .	4.7	76
12	Astrophysical implications of gapless color-flavor locked quark matter: A hot water bottle for aging neutron stars. <i>Physical Review D</i> , 2005, 71, .	4.7	64
13	Characteristics of hybrid compact stars with a sharp hadron-quark interface. <i>European Physical Journal A</i> , 2016, 52, 1.	2.5	57
14	Relativistic hybrid stars with sequential first-order phase transitions and heavy-baryon envelopes. <i>Physical Review D</i> , 2020, 101, .	4.7	51
15	Large amplitude behavior of the bulk viscosity of dense matter. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010, 37, 125202.	3.6	45
16	Signatures for quark matter from multi-messenger observations. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 114001.	3.6	44
17	Bulk viscosity due to kaons in color-flavor-locked quark matter. <i>Physical Review C</i> , 2007, 75, .	2.9	43
18	What the Timing of Millisecond Pulsars Can Teach us about Their Interior. <i>Physical Review Letters</i> , 2014, 113, 251102.	7.8	42

#	ARTICLE	IF	CITATIONS
19	\hat{I}^2 equilibrium in neutron-star mergers. Physical Review C, 2018, 98, .	2.9	39
20	Relativistic hybrid stars in light of the NICER PSR $J > 0.740 > 0.6620$ radius measurement. Physical Review D, 2021, 104, .	4.7	37
21	Bulk viscosity in 2SC quark matter. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 67-101.	3.6	36
22	Projecting the likely importance of weak-interaction-driven bulk viscosity in neutron star mergers. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1096-1108.	4.4	34
23	Damping of density oscillations in neutrino-transparent nuclear matter. Physical Review C, 2019, 100, .	2.9	32
24	Bulk viscosity in kaon-condensed color-flavor-locked quark matter. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 115007.	3.6	31
25	Bulk viscosity of baryonic matter with trapped neutrinos. Physical Review D, 2019, 100, .	4.7	31
26	Critical phenomena from the two-particle irreducible $1/N$ expansion. Physical Review D, 2004, 70, .	4.7	27
27	Continuity of vortices from the hadronic to the color-flavor locked phase in dense matter. Physical Review D, 2019, 99, .	4.7	27
28	Phase conversion dissipation in multicomponent compact stars. Physical Review C, 2015, 91, .	2.9	26
29	Bulk Viscous Damping of Density Oscillations in Neutron Star Mergers. Particles, 2020, 3, 500-517.	1.7	26
30	On Math, Matter and Mind. Foundations of Physics, 2006, 36, 765-794.	1.3	22
31	From a complex scalar field to the two-fluid picture of superfluidity. Physical Review D, 2013, 87, .	4.7	22
32	Stability of superfluid vortices in dense quark matter. Physical Review C, 2016, 93, .	2.9	21
33	On the Stability of Strange Dwarf Hybrid Stars. Astrophysical Journal, 2017, 847, 109.	4.5	21
34	Isospin asymmetry and type-I superconductivity in neutron star matter. Physical Review C, 2005, 72, .	2.9	19
35	Shear viscosity from kaon condensation in color-flavor-locked quark matter. Physical Review C, 2010, 81, .	2.9	19
36	Axions in neutron star mergers. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 023-023.	5.4	19

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37	Strangelet dwarfs. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 065201.	3.6	18
38	Beta Equilibrium under Neutron Star Merger Conditions. Universe, 2021, 7, 399.	2.5	18
39	Leptonic contribution to the bulk viscosity of nuclear matter. Physical Review C, 2010, 82, .	2.9	13
40	Strangeness-changing rates and hyperonic bulk viscosity in neutron star mergers. Physical Review C, 2021, 103, .	2.9	13
41	Role reversal in first and second sound in a relativistic superfluid. Physical Review D, 2014, 89, .	4.7	11
42	Bridging the Gap by Squeezing Superfluid Matter. Physical Review Letters, 2012, 108, 111102.	7.8	10
43	Bulk viscosity from Urca processes: η \propto μ^2 τ ρ ϵ $\tau^{1/4}$ matter in the neutrino-trapped regime. Physical Review D, 2021, 104, .		8
44	Color Superconductivity and Charge Neutrality in Yukawa Theory. Physical Review Letters, 2018, 120, 082701.	7.8	7
45	Ghostly action at a distance: A non-technical explanation of the Bell inequality. American Journal of Physics, 2016, 84, 448-457.	0.7	4
46	GAPLESS CFL AND ITS COMPETITION WITH MIXED PHASES. , 2005, , .		3
47	Non-linear viscous saturation of r-modes. , 2011, , .		2
48	Impact of r-modes on the cooling of neutron stars. , 2012, , .		2
49	Generic Conditions for Stable Hybrid Stars. , 2014, , .		2
50	Suprathermal viscosity of dense matter. , 2010, , .		1
51	Color Superconductivity in Dense, but not Asymptotically Dense, Quark Matter. Series on Advances in Quantum Many-body Theory, 2006, , 1-36.	0.2	0
52	Professor Wilczek Comes to Harvard. , 2022, , 1-4.		0