

Mark G Alford

List of Publications by Year in descending order

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52
papers

4,553
citations

201674

27
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233421

45
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52
all docs

52
docs citations

52
times ranked

1587
citing authors

#	ARTICLE	IF	CITATIONS
1	Professor Wilczek Comes to Harvard. , 2022, , 1-4.		0
2	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
3	Strangeness-changing rates and hyperonic bulk viscosity in neutron star mergers. Physical Review C, 2021, 103, .	2.9	13
4	Beta Equilibrium under Neutron Star Merger Conditions. Universe, 2021, 7, 399.	2.5	18
5	Bulk viscosity from Urca processes: $\nu_n \nu_p \nu_e \nu_{\mu}^{1/4}$ matter in the neutrino-trapped regime. Physical Review D, 2021, 104, .		8
6	Relativistic hybrid stars in light of the NICER PSR $J = 0.740 \text{ ms}^2$ radius measurement. Physical Review D, 2021, 104, .	4.7	37
7	Axions in neutron star mergers. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 023-023.	5.4	19
8	Bulk Viscous Damping of Density Oscillations in Neutron Star Mergers. Particles, 2020, 3, 500-517.	1.7	26
9	Relativistic hybrid stars with sequential first-order phase transitions and heavy-baryon envelopes. Physical Review D, 2020, 101, .	4.7	51
10	Damping of density oscillations in neutrino-transparent nuclear matter. Physical Review C, 2019, 100, .	2.9	32
11	Signatures for quark matter from multi-messenger observations. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 114001.	3.6	44
12	Continuity of vortices from the hadronic to the color-flavor locked phase in dense matter. Physical Review D, 2019, 99, .	4.7	27
13	Bulk viscosity of baryonic matter with trapped neutrinos. Physical Review D, 2019, 100, .	4.7	31
14	Color Superconductivity and Charge Neutrality in Yukawa Theory. Physical Review Letters, 2018, 120, 082701.	7.8	7
15	Viscous Dissipation and Heat Conduction in Binary Neutron-Star Mergers. Physical Review Letters, 2018, 120, 041101.	7.8	107
16	$\hat{\Gamma}^2$ equilibrium in neutron-star mergers. Physical Review C, 2018, 98, .	2.9	39
17	Compact Stars with Sequential QCD Phase Transitions. Physical Review Letters, 2017, 119, 161104.	7.8	123
18	On the Stability of Strange Dwarf Hybrid Stars. Astrophysical Journal, 2017, 847, 109.	4.5	21

#	ARTICLE	IF	CITATIONS
19	Ghostly action at a distance: A non-technical explanation of the Bell inequality. American Journal of Physics, 2016, 84, 448-457.	0.7	4
20	Stability of superfluid vortices in dense quark matter. Physical Review C, 2016, 93, .	2.9	21
21	Characteristics of hybrid compact stars with a sharp hadron-quark interface. European Physical Journal A, 2016, 52, 1.	2.5	57
22	Phase conversion dissipation in multicomponent compact stars. Physical Review C, 2015, 91, .	2.9	26
23	Constraining and applying a generic high-density equation of state. Physical Review D, 2015, 92, .	4.7	98
24	Role reversal in first and second sound in a relativistic superfluid. Physical Review D, 2014, 89, .	4.7	11
25	What the Timing of Millisecond Pulsars Can Teach us about Their Interior. Physical Review Letters, 2014, 113, 251102.	7.8	42
26	Generic Conditions for Stable Hybrid Stars. , 2014, , .		2
27	From a complex scalar field to the two-fluid picture of superfluidity. Physical Review D, 2013, 87, .	4.7	22
28	Generic conditions for stable hybrid stars. Physical Review D, 2013, 88, .	4.7	289
29	Impact of r-modes on the cooling of neutron stars. , 2012, , .		2
30	Bridging the Gap by Squeezing Superfluid Matter. Physical Review Letters, 2012, 108, 111102.	7.8	10
31	Strangelet dwarfs. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 065201.	3.6	18
32	Non-linear viscous saturation of r-modes. , 2011, , .		2
33	Large amplitude behavior of the bulk viscosity of dense matter. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 125202.	3.6	45
34	Leptonic contribution to the bulk viscosity of nuclear matter. Physical Review C, 2010, 82, .	2.9	13
35	Shear viscosity from kaon condensation in color-flavor-locked quark matter. Physical Review C, 2010, 81, .	2.9	19
36	Suprathermal viscosity of dense matter. , 2010, , .		1

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37	Color superconductivity in dense quark matter. <i>Reviews of Modern Physics</i> , 2008, 80, 1455-1515.	45.6	1,014
38	Bulk viscosity in kaon-condensed color-flavor-locked quark matter. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008, 35, 115007.	3.6	31
39	Bulk viscosity due to kaons in color-flavor-locked quark matter. <i>Physical Review C</i> , 2007, 75, .	2.9	43
40	Bulk viscosity in 2SC quark matter. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2007, 34, 67-101.	3.6	36
41	Stability of strange star crusts and strangelets. <i>Physical Review D</i> , 2006, 73, .	4.7	76
42	On Math, Matter and Mind. <i>Foundations of Physics</i> , 2006, 36, 765-794.	1.3	22
43	Color Superconductivity in Dense, but not Asymptotically Dense, Quark Matter. <i>Series on Advances in Quantum Many-body Theory</i> , 2006, , 1-36.	0.2	0
44	Isospin asymmetry and type-I superconductivity in neutron star matter. <i>Physical Review C</i> , 2005, 72, .	2.9	19
45	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
46	GAPLESS CFL AND ITS COMPETITION WITH MIXED PHASES. , 2005, , .		3
47	Gapless Color-Flavor-Locked Quark Matter. <i>Physical Review Letters</i> , 2004, 92, 222001.	7.8	182
48	Critical phenomena from the two-particle irreducible1/Expansion. <i>Physical Review D</i> , 2004, 70, .	4.7	27
49	Single color and single flavor color superconductivity. <i>Physical Review D</i> , 2003, 67, .	4.7	87
50	COLOR-SUPERCONDUCTING QUARK MATTER. <i>Annual Review of Nuclear and Particle Science</i> , 2001, 51, 131-160.	10.2	447
51	Minimal color-flavor-locked nuclear interface. <i>Physical Review D</i> , 2001, 64, .	4.7	224
52	Color-flavor locking and chiral symmetry breaking in high density QCD. <i>Nuclear Physics B</i> , 1999, 537, 443-458.	2.5	959