Steven A Balbus

List of Publications by Year
in descending order

26 papers	6,827 citations	623188 14 h-index	552369 26 g-index
27 all docs	27 docs citations	27 times ranked	3376 citing authors

#	Article	IF	Citations
1	Energy partition between AlfvÃ©nic and compressive fluctuations in magnetorotational turbulence with near-azimuthal mean magnetic field. Journal of Plasma Physics, 2022, 88, .	0.7	6
2	Hard X-ray emission from a Compton scattering corona in large black hole mass tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2021, 504, 4730-4742.	1.6	4
3	An upper observable black hole mass scale for tidal destruction events with thermal X-ray spectra. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1629-1644.	1.6	6
4	Elasticity of tangled magnetic fields. Journal of Plasma Physics, 2020, 86, .	0.7	4
5	Tides: A key environmental driver of osteichthyan evolution and the fish-tetrapod transition?. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200355.	1.0	7
6	Long-term evolution of a magnetic massive merger product. Monthly Notices of the Royal Astronomical Society, 2020, 495, 2796-2812.	1.6	37
7	ASASSN-15lh: a TDE about a maximally rotating 109â€‰MâŠ™ black hole. Monthly Notices of the Royal Astronomical Society: Letters, 2020, 497, L13-L18.	1.2	21
8	The spectral evolution of disc dominated tidal disruption events. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5655-5674.	1.6	40
9	Evolution of relativistic thin discs with a finite ISCO stress â€" I. Stalled accretion. Monthly Notices of the Royal Astronomical Society, 2019, 489, 132-142.	1.6	17
10	Evolution of relativistic thin discs with a finite ISCO stress â€" II. Late time behaviour. Monthly Notices of the Royal Astronomical Society, 2019, 489, 143-152.	1.6	12
11	Stellar mergers as the origin of magnetic massive stars. Nature, 2019, 574, 211-214.	13.7	126
12	The evolution of Kerr discs and late-time tidal disruption event light curves. Monthly Notices of the Royal Astronomical Society, 2018, 481, 3348-3356.	1.6	21
13	When is high Reynolds number shear flow not turbulent?. Journal of Fluid Mechanics, 2017, 824, 1-4.	1.4	16
14	The general relativistic thin disc evolution equation. Monthly Notices of the Royal Astronomical Society, 2017, 471, 4832-4838.	1.6	16
15	Surprises in astrophysical gasdynamics. Reports on Progress in Physics, 2016, 79, 066901.	8.1	9
16	Simplified derivation of the gravitational wave stress tensor from the linearized Einstein field equations. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11662-11666.	3.3	6
17	The Goldreichâ€"Schubertâ€"Fricke instability in stellar radiative zones. Monthly Notices of the Royal Astronomical Society, 2016, 460, 338-344.	1.6	12
18	An accretion disc instability induced by a temperature sensitive Î± parameter. Monthly Notices of the Royal Astronomical Society, 2014, 441, 681-689.	1.6	21

#	Article	IF	Citations
19	On the high-frequency spectrum of a classical accretion disc. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 444, L54-L57.	1.2	4
20	Dynamical, biological and anthropic consequences of equal lunar and solar angular radii. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140263.	1.0	15
21	The ionization fraction inÎ±models of protoplanetary discs. Monthly Notices of the Royal Astronomical Society, 2002, 329, 18-28.	1.6	234
22	On the Dynamical Foundations of Î± Disks. Astrophysical Journal, 1999, 521, 650-658.	1.6	264
23	Instability, turbulence, and enhanced transport in accretion disks. Reviews of Modern Physics, 1998, 70, 1-53.	16.4	2,085
24	A powerful local shear instability in weakly magnetized disks. I - Linear analysis. II - Nonlinear evolution. Astrophysical Journal, 1991, 376, 214.	1.6	3,498
25	A Powerful Local Shear Instability in Weakly Magnetized Disks. II. Nonlinear Evolution. Astrophysical Journal, 1991, 376, 223.	1.6	344
26	A Poynting theorem formulation for the gravitational wave stress pseudo tensor. International Journal of Modern Physics D, 0, , 2142003.	0.9	1