Justin Ball

List of Publications by Year in descending order

18 papers	531 citations	1163117 8 h-index	839539 18 g-index
19 all docs	19 docs citations	19 times ranked	721 citing authors

#	Article	IF	Citations
1	Three-dimensional inhomogeneity of electron-temperature-gradient turbulence in the edge of tokamak plasmas. Nuclear Fusion, 2022, 62, 086045.	3.5	7
2	A non-twisting flux tube for local gyrokinetic simulations. Plasma Physics and Controlled Fusion, 2021, 63, 064008.	2.1	4
3	Development of advanced linearized gyrokinetic collision operators using a moment approach. Journal of Plasma Physics, 2021, 87, .	2.1	11
4	Effect of collisions on non-adiabatic electron dynamics in ITG-driven microturbulence. Physics of Plasmas, 2021, 28, 092303.	1.9	6
5	How eigenmode self-interaction affects zonal flows and convergence of tokamak core turbulence with toroidal system size. Journal of Plasma Physics, 2020, 86, .	2.1	13
6	Eliminating turbulent self-interaction through the parallel boundary condition in local gyrokinetic simulations. Journal of Plasma Physics, 2020, 86, .	2.1	12
7	Toroidal and slab ETG instability dominance in the linear spectrum of JET-ILW pedestals. Nuclear Fusion, 2020, 60, 126045.	3.5	40
8	Maximizing specific energy by breeding deuterium. Nuclear Fusion, 2019, 59, 106043.	3.5	1
9	Physics research on the TCV tokamak facility: from conventional to alternative scenarios and beyond. Nuclear Fusion, 2019, 59, 112023.	3.5	43
10	The effect of background flow shear on gyrokinetic turbulence in the cold ion limit. Plasma Physics and Controlled Fusion, 2019, 61, 064004.	2.1	5
11	Simulating background shear flow in local gyrokinetic simulations. Plasma Physics and Controlled Fusion, 2019, 61, 055006.	2.1	9
12	Optimized upâ€“down asymmetry to drive fast intrinsic rotation in tokamaks. Nuclear Fusion, 2018, 58, 026003.	3.5	6
13	Turbulent momentum transport due to the beating between different tokamak flux surface shaping effects. Plasma Physics and Controlled Fusion, 2017, 59, 024007.	2.1	2
14	Effect of the Shafranov shift and the gradient ofÎ²on intrinsic momentum transport in upâ€“down asymmetric tokamaks. Plasma Physics and Controlled Fusion, 2016, 58, 125015.	2.1	1
15	Intuition for the radial penetration of flux surface shaping in tokamaks. Plasma Physics and Controlled Fusion, 2015, 57, 035006.	2.1	5
16	ARC: A compact, high-field, fusion nuclear science facility and demonstration power plant with demountable magnets. Fusion Engineering and Design, 2015, 100, 378-405.	1.9	339
17	Conditions for up-down asymmetry in the core of tokamak equilibria. Nuclear Fusion, 2014, 54, 093003.	3.5	5
18	Intrinsic momentum transport in upâ€“down asymmetric tokamaks. Plasma Physics and Controlled Fusion, 2014, 56, 095014.	2.1	22