

Gabriel G Plunk

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

969
citations

471509

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times ranked

609
citing authors

#	ARTICLE	IF	CITATIONS
1	Turbulence mitigation in maximum-J stellarators with electron-density gradient. Journal of Plasma Physics, 2022, 88, .	2.1	11
2	Energetic bounds on gyrokinetic instabilities. Part 1. Fundamentals. Journal of Plasma Physics, 2022, 88, .	2.1	2
3	Energetic bounds on gyrokinetic instabilities. Part 2. Modes of optimal growth. Journal of Plasma Physics, 2022, 88, .	2.1	1
4	Predicting the Z-pinch Dimits shift through gyrokinetic tertiary instability analysis of the entropy mode. Journal of Plasma Physics, 2022, 88, .	2.1	3
5	Calculating the linear critical gradient for the ion-temperature-gradient mode in magnetically confined plasmas. Journal of Plasma Physics, 2021, 87, .	2.1	3
6	Phase contrast imaging measurements and numerical simulations of turbulent density fluctuations in gas-fuelled ECRH discharges in Wendelstein 7-X. Journal of Plasma Physics, 2021, 87, .	2.1	4
7	Predicting the Dimits shift through reduced mode tertiary instability analysis in a strongly driven gyrokinetic fluid limit. Journal of Plasma Physics, 2021, 87, .	2.1	4
8	Upper Bounds on Gyrokinetic Instabilities in Magnetized Plasmas. Physical Review Letters, 2021, 127, 155001.	7.8	4
9	Direct construction of optimized stellarator shapes. Part 3. Omnigenity near the magnetic axis "ERRATUM". Journal of Plasma Physics, 2021, 87, .	2.1	2
10	Turbulence Mechanisms of Enhanced Performance Stellarator Plasmas. Physical Review Letters, 2020, 125, 075001.	7.8	32
11	Perturbing an axisymmetric magnetic equilibrium to obtain a quasi-axisymmetric stellarator. Journal of Plasma Physics, 2020, 86, .	2.1	3
12	Enstrophy non-conservation and the forward cascade of energy in two-dimensional electrostatic magnetized plasma turbulence. Journal of Plasma Physics, 2020, 86, .	2.1	0
13	Geometric stabilization of the electrostatic ion-temperature-gradient driven instability. II. Non-axisymmetric systems. Physics of Plasmas, 2020, 27, .	1.9	4
14	Suppression of electrostatic micro-instabilities in maximum-J stellarators. Plasma Physics and Controlled Fusion, 2020, 62, 035005.	2.1	37
15	Global gyrokinetic simulations of ITC turbulence in the magnetic configuration space of the Wendelstein 7-X stellarator. Plasma Physics and Controlled Fusion, 2020, 62, 105005.	2.1	17
16	Direct construction of optimized stellarator shapes. Part 2. Numerical quasisymmetric solutions. Journal of Plasma Physics, 2019, 85, .	2.1	41
17	Stellarators Resist Turbulent Transport on the Electron Larmor Scale. Physical Review Letters, 2019, 122, 035002.	7.8	17
18	Direct construction of optimized stellarator shapes. Part 3. Omnigenity near the magnetic axis. Journal of Plasma Physics, 2019, 85, .	2.1	23

#	ARTICLE	IF	CITATIONS
19	A Look at Phase Space Intermittency in Magnetized Plasma Turbulence. <i>Astrophysical Journal</i> , 2019, 886, 65.	4.5	6
20	Electrostatic stability of electron-positron plasmas in dipole geometry. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	10
21	Quasi-axisymmetric magnetic fields: weakly non-axisymmetric case in a vacuum. <i>Journal of Plasma Physics</i> , 2018, 84, .	2.1	26
22	Distinct Turbulence Saturation Regimes in Stellarators. <i>Physical Review Letters</i> , 2017, 118, 105002.	7.8	15
23	Collisionless microinstabilities in stellarators. Part 4. The ion-driven trapped-electron mode. <i>Journal of Plasma Physics</i> , 2017, 83, .	2.1	14
24	Geometric stabilization of the electrostatic ion-temperature-gradient driven instability. I. Nearly axisymmetric systems. <i>Physics of Plasmas</i> , 2016, 23, 082516.	1.9	6
25	Generalized universal instability: transient linear amplification and subcritical turbulence. <i>Journal of Plasma Physics</i> , 2015, 81, .	2.1	15
26	The universal instability in general geometry. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	11
27	Advances in stellarator gyrokinetics. <i>Nuclear Fusion</i> , 2015, 55, 053030.	3.5	42
28	Irreversible energy flow in forced Vlasov dynamics. <i>European Physical Journal D</i> , 2014, 68, 1.	1.3	9
29	Collisionless microinstabilities in stellarators. III. The ion-temperature-gradient mode. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	40
30	Controlling Turbulence in Present and Future Stellarators. <i>Physical Review Letters</i> , 2014, 113, 155001.	7.8	70
31	Landau damping in a turbulent setting. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	18
32	Collisionless microinstabilities in stellarators. I. Analytical theory of trapped-particle modes. <i>Physics of Plasmas</i> , 2013, 20, 122505.	1.9	38
33	Multiscale gyrokinetics for rotating tokamak plasmas: fluctuations, transport and energy flows. <i>Reports on Progress in Physics</i> , 2013, 76, 116201.	20.1	78
34	Considering fluctuation energy as a measure of gyrokinetic turbulence. <i>New Journal of Physics</i> , 2012, 14, 103030.	2.9	12
35	Resilience of Quasi-Isodynamic Stellarators against Trapped-Particle Instabilities. <i>Physical Review Letters</i> , 2012, 108, 245002.	7.8	59
36	Freely decaying turbulence in two-dimensional electrostatic gyrokinetics. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	8

#	ARTICLE	IF	CITATIONS
37	Energy Transfer and Dual Cascade in Kinetic Magnetized Plasma Turbulence. Physical Review Letters, 2011, 106, 165003.	7.8	19
38	Two-dimensional gyrokinetic turbulence. Journal of Fluid Mechanics, 2010, 664, 407-435.	3.4	52
39	Nonlinear Phase Mixing and Phase-Space Cascade of Entropy in Gyrokinetic Plasma Turbulence. Physical Review Letters, 2009, 103, 015003.	7.8	107
40	Gyrokinetic turbulence: a nonlinear route to dissipation through phase space. Plasma Physics and Controlled Fusion, 2008, 50, 124024.	2.1	106