Pavlos Xanthopoulos

List of Publications by Year
in descending order

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37 papers	837 citations	471509 17 h-index	501196 28 g-index
37 all docs	37 docs citations	37 times ranked	583 citing authors

#	Article	IF	Citations
1	Stellarator and tokamak plasmas: a comparison. Plasma Physics and Controlled Fusion, 2012, 54, 124009.	2.1	111
2	Controlling Turbulence in Present and Future Stellarators. Physical Review Letters, 2014, 113, 155001.	7.8	70
3	A geometry interface for gyrokinetic microturbulence investigations in toroidal configurations. Physics of Plasmas, 2009, 16, .	1.9	64
4	Optimizing Stellarators for Turbulent Transport. Physical Review Letters, 2010, 105, 095004.	7.8	55
5	High-performance plasmas after pellet injections in Wendelstein 7-X. Nuclear Fusion, 2020, 60, 066011.	3.5	48
6	Advances in stellarator gyrokinetics. Nuclear Fusion, 2015, 55, 053030.	3.5	42
7	Collisionless microinstabilities in stellarators. III. The ion-temperature-gradient mode. Physics of Plasmas, 2014, 21, .	1.9	40
8	Suppression of electrostatic micro-instabilities in maximum-J stellarators. Plasma Physics and Controlled Fusion, 2020, 62, 035005.	2.1	37
9	Turbulence Mechanisms of Enhanced Performance Stellarator Plasmas. Physical Review Letters, 2020, 125, 075001.	7.8	32
10	Recent advances in stellarator optimization. Nuclear Fusion, 2017, 57, 126064.	3.5	31
11	Collisionless microinstabilities in stellarators. II. Numerical simulations. Physics of Plasmas, 2013, 20, .	1.9	29
12	Ion temperature clamping in Wendelstein 7-X electron cyclotron heated plasmas. Nuclear Fusion, 2021, 61, 116072.	3.5	27
13	Gyrokinetic studies of trapped electron mode turbulence in the Helically Symmetric eXperiment stellarator. Physics of Plasmas, 2015, 22, .	1.9	26
14	Intrinsic Turbulence Stabilization in a Stellarator. Physical Review X, 2016, 6, .	8.9	22
15	TEM turbulence optimisation in stellarators. Plasma Physics and Controlled Fusion, 2016, 58, 014006.	2.1	21
16	Threshold for the destabilisation of the ion-temperature-gradient mode in magnetically confined toroidal plasmas. Journal of Plasma Physics, 2018, 84, .	2.1	20
17	Stellarators Resist Turbulent Transport on the Electron Larmor Scale. Physical Review Letters, 2019, 122, 035002.	7.8	17
18	Global gyrokinetic simulations of ITG turbulence in the magnetic configuration space of the Wendelstein 7-X stellarator. Plasma Physics and Controlled Fusion, 2020, 62, 105005.	2.1	17

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19	Modeling and measurement of energetic particle slowing down in Wendelstein 7-X. Nuclear Fusion, 2021, 61, 096005.	3.5	15
20	Impact of the temperature ratio on turbulent impurity transport in Wendelstein 7-X. Nuclear Fusion, 0, , .	3.5	15
21	Turbulent optimization of toroidal configurations. Plasma Physics and Controlled Fusion, 2014, 56, 094001.	2.1	14
22	A comparison of turbulent transport inÂaÂquasi-helical and a quasi-axisymmetricÂstellarator. Journal of Plasma Physics, 2019, 85, .	2.1	12
23	Turbulence mitigation in maximum-J stellarators with electron-density gradient. Journal of Plasma Physics, 2022, 88, .	2.1	11
24	Impact of Magnetic Field Configuration on Heat Transport in Stellarators and Heliotrons. Physical Review Letters, 2021, 127, 225001.	7.8	8
25	System Code Analysis of HELIAS-Type Fusion Reactor and Economic Comparison With Tokamaks. IEEE Transactions on Plasma Science, 2016, 44, 1576-1585.	1.3	7
26	Linear electrostatic gyrokinetics for electronâ€“positron plasmas. Journal of Plasma Physics, 2018, 84, .	2.1	7
27	Confinement in electron heated plasmas in Wendelstein 7-X and ASDEX Upgrade; the necessity to control turbulent transport. Nuclear Fusion, 2022, 62, 016015.	3.5	7
28	Geometric stabilization of the electrostatic ion-temperature-gradient driven instability. I. Nearly axisymmetric systems. Physics of Plasmas, 2016, 23, 082516.	1.9	6
29	Linear gyrokinetics of electronâ€“positron plasmas in closed field-line systems. Journal of Plasma Physics, 2020, 86, .	2.1	5
30	Strongly driven surface-global kinetic ballooning modes in general toroidal geometry. Journal of Plasma Physics, 2018, 84, .	2.1	4
31	Geometric stabilization of the electrostatic ion-temperature-gradient driven instability. II. Non-axisymmetric systems. Physics of Plasmas, 2020, 27, .	1.9	4
32	First steps towards modeling of ion-driven turbulence in Wendelstein 7-X. Nuclear Fusion, 2018, 58, 016017.	3.5	3
33	Heat pulse propagation and anomalous electron heat transport measurements on the optimized stellarator W7-X. Nuclear Fusion, 2021, 61, 056001.	3.5	3
34	Calculating the linear critical gradient for the ion-temperature-gradient mode in magnetically confined plasmas. Journal of Plasma Physics, 2021, 87, .	2.1	3
35	Ion temperature gradient turbulence modification in quasi-axisymmetry. Physics of Plasmas, 2019, 26, .	1.9	2
36	Electrostatic gyrokinetic simulations in Wendelstein 7-X geometry: benchmark between the codes <tt>stella</tt> and <tt>GENE</tt>. Journal of Plasma Physics, 2022, 88, .	2.1	2

#	Article	IF	Citations
37	Systems studies of HELIAS power plants and comparison to tokamaks. , 2015, , .		0