# 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 | 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 |
| 2 | Turbulence mitigation in maximum-J stellarators with electron-density gradient. Journal of Plasma Physics, 2022, 88, . | 2.1 | 11 |
| 3 | 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 |
| 4 | Heat pulse propagation and anomalous electron heat transport measurements on the optimized stellarator W7-X. Nuclear Fusion, 2021, 61, 056001. | 3.5 | 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 | Ion temperature clamping in Wendelstein 7-X electron cyclotron heated plasmas. Nuclear Fusion, 2021, 61, 116072. | 3.5 | 27 |
| 7 | Modeling and measurement of energetic particle slowing down in Wendelstein 7-X. Nuclear Fusion, 2021, 61, 096005. | 3.5 | 15 |
| 8 | Impact of Magnetic Field Configuration on Heat Transport in Stellarators and Heliotrons. Physical Review Letters, 2021, 127, 225001. | 7.8 | 8 |
| 9 | Turbulence Mechanisms of Enhanced Performance Stellarator Plasmas. Physical Review Letters, 2020, 125, 075001. | 7.8 | 32 |
| 10 | Linear gyrokinetics of electronâ€“positron plasmas in closed field-line systems. Journal of Plasma Physics, 2020, 86, . | 2.1 | 5 |
| 11 | Geometric stabilization of the electrostatic ion-temperature-gradient driven instability. II. Non-axisymmetric systems. Physics of Plasmas, 2020, 27, . | 1.9 | 4 |
| 12 | High-performance plasmas after pellet injections in Wendelstein 7-X. Nuclear Fusion, 2020, 60, 066011. | 3.5 | 48 |
| 13 | Suppression of electrostatic micro-instabilities in maximum-J stellarators. Plasma Physics and Controlled Fusion, 2020, 62, 035005. | 2.1 | 37 |
| 14 | 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 |
| 15 | A comparison of turbulent transport inÂaÂquasi-helical and a quasi-axisymmetricÂstellarator. Journal of Plasma Physics, 2019, 85, . | 2.1 | 12 |
| 16 | Ion temperature gradient turbulence modification in quasi-axisymmetry. Physics of Plasmas, 2019, 26, . | 1.9 | 2 |
| 17 | Stellarators Resist Turbulent Transport on the Electron Larmor Scale. Physical Review Letters, 2019, 122, 035002. | 7.8 | 17 |
| 18 | Threshold for the destabilisation of the ion-temperature-gradient mode in magnetically confined toroidal plasmas. Journal of Plasma Physics, 2018, 84, . | 2.1 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | First steps towards modeling of ion-driven turbulence in Wendelstein 7-X. Nuclear Fusion, 2018, 58, 016017. | 3.5 | 3 |
| 20 | Linear electrostatic gyrokinetics for electronâ€“positron plasmas. Journal of Plasma Physics, 2018, 84, . | 2.1 | 7 |
| 21 | Strongly driven surface-global kinetic ballooning modes in general toroidal geometry. Journal of Plasma Physics, 2018, 84, . | 2.1 | 4 |
| 22 | Recent advances in stellarator optimization. Nuclear Fusion, 2017, 57, 126064. | 3.5 | 31 |
| 23 | TEM turbulence optimisation in stellarators. Plasma Physics and Controlled Fusion, 2016, 58, 014006. | 2.1 | 21 |
| 24 | 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 |
| 25 | Geometric stabilization of the electrostatic ion-temperature-gradient driven instability. I. Nearly axisymmetric systems. Physics of Plasmas, 2016, 23, 082516. | 1.9 | 6 |
| 26 | Intrinsic Turbulence Stabilization in a Stellarator. Physical Review X, 2016, 6, . | 8.9 | 22 |
| 27 | Gyrokinetic studies of trapped electron mode turbulence in the Helically Symmetric eXperiment stellarator. Physics of Plasmas, 2015, 22, . | 1.9 | 26 |
| 28 | Systems studies of HELIAS power plants and comparison to tokamaks. , 2015, , . | | 0 |
| 29 | Advances in stellarator gyrokinetics. Nuclear Fusion, 2015, 55, 053030. | 3.5 | 42 |
| 30 | Turbulent optimization of toroidal configurations. Plasma Physics and Controlled Fusion, 2014, 56, 094001. | 2.1 | 14 |
| 31 | Collisionless microinstabilities in stellarators. III. The ion-temperature-gradient mode. Physics of Plasmas, 2014, 21, . | 1.9 | 40 |
| 32 | Controlling Turbulence in Present and Future Stellarators. Physical Review Letters, 2014, 113, 155001. | 7.8 | 70 |
| 33 | Collisionless microinstabilities in stellarators. II. Numerical simulations. Physics of Plasmas, 2013, 20, . | 1.9 | 29 |
| 34 | Stellarator and tokamak plasmas: a comparison. Plasma Physics and Controlled Fusion, 2012, 54, 124009. | 2.1 | 111 |
| 35 | Optimizing Stellarators for Turbulent Transport. Physical Review Letters, 2010, 105, 095004. | 7.8 | 55 |
| 36 | A geometry interface for gyrokinetic microturbulence investigations in toroidal configurations. Physics of Plasmas, 2009, 16, . | 1.9 | 64 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Impact of the temperature ratio on turbulent impurity transport in Wendelstein 7-X. Nuclear Fusion, 0, , . | 3.5 | 15 |