



Current positions

Staff Research Scientist, MPI for Plasma Physics, Greifswald (since 2008)

Previous positions (two selected)

Postdoctoral Research Scientist, MPI for Plasma Physics, Greifswald (2007-2008)

Marie-Curie Fellow Scientist, MPI for Plasma Physics, Greifswald (2005-2007)

Scientific degrees

PhD in Applied Mathematics, National Technical University of Athens (2003)

Recent research topic

Numerical simulation and optimization of stellarator turbulence

Publications/Patents (5 most important)

- **G. G. Plunk, P. Xanthopoulos, G. M. Weir, S. A. Bozhakov, A. Dinklage**, et al., Stellarators Resist Turbulent Transport on the Electron Larmor Scale, *Phys. Rev. Lett.* 122, 035002 (2019) [doi:10.1103/PhysRevLett.122.035002](https://doi.org/10.1103/PhysRevLett.122.035002)
- **G. G. Plunk, P. Xanthopoulos, P. Helander**, Distinct Turbulence Saturation Regimes in Stellarators, *Phys. Rev. Lett.* 118, 105002 (2017) [doi:10.1103/PhysRevLett.118.105002](https://doi.org/10.1103/PhysRevLett.118.105002)
- **P. Xanthopoulos, G. G. Plunk, A. Zocco, P. Helander**, Intrinsic Turbulence Stabilization in a Stellarator, *Phys. Rev. X* 6, 021033 (2016) [doi:10.1103/PhysRevX.6.021033](https://doi.org/10.1103/PhysRevX.6.021033)
- **P. Xanthopoulos**, H. E. Mynick, **P. Helander, Y. Turkin, G. G. Plunk**, et al., Controlling Turbulence in Present and Future Stellarators, *Phys. Rev. Lett.* 113, 155001 (2014) [doi:10.1103/PhysRevLett.113.155001](https://doi.org/10.1103/PhysRevLett.113.155001)
- **P. Xanthopoulos, A. Mischchenko, P. Helander**, H. Sugama, T.-H. Watanabe, Zonal Flow Dynamics and Control of Turbulent Transport in Stellarators, *Phys. Rev. Lett.* 107, 245002 (2011) [doi:10.1103/PhysRevLett.107.245002](https://doi.org/10.1103/PhysRevLett.107.245002)