

Dr. Xin Wang



Current position

Staff Scientist, MPI for Plasma Physics, Garching

Previous positions (two selected)

Postdoctoral Researcher, MPI for Plasma Physics, Garching (2013-2016)

Associate Professor, Zhejiang University, Zhejiang, Hangzhou (2011-2013)

Scientific degree

PhD in Theoretical Physics, Nankai University, Tianjin (2007)

Recent research topics

Energetic particle physics in fusion plasmas and space

Publications (5 most important)

- Z. X. Lu, X. Wang, Ph. Lauber, F. Zonca, Kinetic effects of thermal ions and energetic particles on discrete kinetic BAE mode generation and symmetry breaking, *Nucl. Fusion* 58, 082021 (2018) [doi:10.1088/1741-4326/aaae0f](https://doi.org/10.1088/1741-4326/aaae0f)
- X. Wang, S. Briguglio, Saturation of single toroidal number Alfvén modes, *New. J. Phys.* 18, 085009 (2016) [doi:10.1088/1367-2630/18/8/085009](https://doi.org/10.1088/1367-2630/18/8/085009)
- X. Wang, S. Briguglio, Ph. Lauber, V. Fusco, F. Zonca, Structure of wave- particle resonances and Alfvén mode saturation, *Phys. Plasmas* 23, 012514 (2016) [doi:10.1063/1.4940785](https://doi.org/10.1063/1.4940785)
- S. Briguglio, X. Wang, F. Zonca, G. Vlad, G. Fogaccia, et al., Analysis of the nonlinear behavior of shear-Alfvén modes in tokamaks based on Hamiltonian mapping techniques, *Phys. Plasmas* 21, 112301 (2014) [doi:10.1063/1.4901028](https://doi.org/10.1063/1.4901028)
- X. Wang, S. Briguglio, L. Chen, C. Di Troia, G. Fogaccia, et al., An extended hybrid magnetohydrodynamics gyrokinetic model for numerical simulation of shear Alfvén waves in burning plasmas, *Phys. Plasmas* 18, 052504 (2011) [doi:10.1063/1.3587080](https://doi.org/10.1063/1.3587080)