

**Current positions**

Project Leader of 3D Edge Plasma Physics at Institute of Energy and Climate Research 4 (IEK-4), FZJ, since 2013

Adjunct Professor Huazhong Uni. of Science and Technology, Wuhan, China, since 2017

Distinguished Professor, Donghua Uni., Shanghai, China, since 2013

Previous positions (two selected)

Group Leader, Helmholtz-University Young Investigators Groups (2008-2014)

Professor (W1), Heinrich-Heine-Universität Düsseldorf, Germany (2009-2014)

Scientific degree

PhD in Physics, The Graduate University for Advanced Studies, Japan, 2000

Recent research topics

3D Edge and Divertor Physics, Stellarator Physics, Plasma-Wall Interaction, Plasma diagnostics, MHD instabilities and Plasma Transport

Awards, honors, memberships

Editor-in-Chief, Plasma Science and Technology (since 2017); Chinese “The Recruitment Program of Global Experts” 2013; Helmholtz-University funded award (2007); Chair of the EAST Physics Program Committee, (2014)

Publications/Patents (5 most important)

- **Y. Liang, O Neubauer, R König, et al.**, Diagnostic set-up and modelling for investigation of synergy between 3D edge physics and plasma-wall interactions on Wendelstein 7-X, *Nucl. Fusion* 57 (6), 066049 (2017) <https://doi.org/10.1088/1741-4326/aa6cde>
- Y Sun, **Y Liang**, YQ Liu, S Gu, X Yang, et al., Nonlinear Transition from Mitigation to Suppression of the Edge Localized Mode with Resonant Magnetic Perturbations in the EAST Tokamak, *Physical review letters* 117, 115001 (2016) <https://doi.org/10.1103/PhysRevLett.117.115001>
- **Y Liang**, XZ Gong, KF Gan, E Gauthier, L Wang, et al., Magnetic topology changes induced by lower hybrid waves and their profound effect on edge-localized modes in the EAST tokamak, *Physical review letters* 110 (23), 235002 (2013) <https://doi.org/10.1103/PhysRevLett.110.235002>
- **Y Liang**, CG Gimblett, PK Browning, P Devoy, **HR Koslowski**, et al., Multiresonance effect in type-I edge-localized mode control with low n fields on JET, *Physical review letters* 105, 065001 (2010) <https://doi.org/10.1103/PhysRevLett.105.065001>
- **Y Liang, HR Koslowski**, PR Thomas, E Nardon, B Alper, et al., Active control of type-I edge-localized modes with n= 1 perturbation fields in the JET tokamak, *Physical review letters* 98, 265004 (2007) <https://doi.org/10.1103/PhysRevLett.98.265004>