

CURRICULUM VITAE

Xiaolan Zou

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Education

- 1985-1988 Ecole Polytechnique, France
September 1988 PhD in Plasma Physics, University of Paris XI (Orsay)
- 1985-1986 Ecole Polytechnique, France
Nov. 1986 Master (DEA), University of Paris XI (Orsay)
- 1983-1985 Ecole Polytechnique, France
July 1985 Diplome of Engineer
- 1981-1983 Lycee du Parc, Preparatory class, France

Professional experiences

- 1988-1989 Post-Doc, Ecole Polytechnique, France
- 1989-2018 Physicist at Commissariat à l'Energie Atomique (CEA),
IRFM/SCCP, CEA Cadarache, France

Research Interests

- Microwave diagnostic
- Electron cyclotron resonance heating
- Experiments in tokamak: Turbulence measurement; Particle and heat transport; H-mode physics; Impurity physics; Control of the edge localized modes and the divertor heat load

Publications

1. "Scattering of an electromagnetic wave in a plasma close to a cut-off layer. Application to fluctuation measurements"
Plasma Physics and Controlled Fusion, Vol. 33 n° 8, p. 903-918 (1991) **X.L. Zou**, L. Laurent, J.M. Rax
2. "Internal magnetic turbulence measurement in plasma by cross polarisation scattering"
Physical Review Letters, vol. 75 n° 6, p. 1090-1093 (1995) **X.L. Zou** et al.

3. "Internal Magnetic Fluctuations and Electron Heat Transport in the Tora Supra Tokamak : Observation by Cross-Polarization Scattering"
Nuclear Fusion, vol.38, n°6, p.903-918 (1998) L. Colas, **X.L. Zou**, et al.
4. "Edge cooling experiments and non-local transport phenomena in Tore Supra"
Plasma Physics and Controlled Fusion, vol.42, p.1067-1076 (2000) **X.L. Zou**, et al.
5. "Electron Heat Transport and ECRH Modulation Experiments in Tore Supra Tokamak"
Nuclear Fusion , vol.43, p.1411-1420 (2003) **X.L. Zou** et al.
6. "Observation of a Spontaneous Particle Transport Barrier in HL-2A Tokamak", Phys. Rev. Lett., 104, 215001(2010) W.W. Xiao, **X.L. Zou**, X.T. Ding, et al.,
7. "Analysis of Electron Heat Transport with off-axis modulated ECRH in Tore Supra" Nucl. Fusion 52 (2012) 033006 S.D. Song, **X.L. Zou**, G. Giruzzi, et al.,
8. "ELM Mitigation by Supersonic Molecular Beam Injection into the H-mode Pedestal in HL-2A Tokamak" Nucl. Fusion 52, 114027 (2012) W.W. Xiao, P.H. Diamond, **X.L. Zou**, et al,
9. "Convective velocity reversal caused by turbulence transition in tokamak plasma" Phys. Rev. Lett., 111, 265001 (2013) W.L. Zhong, **X.L. Zou**, et al.
10. "Observation of double impurity critical gradients for electromagnetic turbulence excitation in Tokamak plasmas", Phys. Rev. Lett. 117, 045001 (2016) W.L. Zhong, Y. Shen, **X.L. Zou** et al.,
11. "Effect of lower hybrid current drive on pedestal instabilities in the HL-2A tokamak" Physics of Plasmas 24, 122507 (2017) G.L. Xiao, W.L. Zhong, **X.L. Zou** et al.,
12. "Control of Edge Localized Modes by Pedestal Deposited Impurity in the HL-2A tokamak" Nucl. Fusion 58 046018 (2018) Y.P. Zhang, D. Mazon, **X.L. Zou** et al.,