

# MATTEO ZUIN – CURRICULUM VITAE

First name	Matteo
Surname	Zuin
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## EMPLOYMENT

December 2009 – Present. **Research Scientist**, Consiglio Nazionale delle Ricerche (National Council of Research, CNR) at Consorzio RFX, Padova (Italy)

2005 – 2009. **Research Scientist**, at Consorzio RFX, Padova (Italy)

## EDUCATION

2004. **PhD in Energetics**, Università di Padova

2001. **M.Sc. in Physics**, Università di Padova

## SUMMARY OF EXPERTISE

- Task Force Leader of the Task Force “Tokamak Operation” for the RFX-mod experiment
- RFP and tokamak devices operation in different scenarios of plasma current
- Experimental expertise in magnetic and electrostatic diagnostics of fusion plasmas by means of high frequency insertable and in-vessel probes
- Experimental expertise in neutron and gamma diagnostics for fusion plasmas
- Experimental expertise in neutral particle diagnostics from charge-exchange processes, for ion temperature measurement
- Experimental and theoretical expertise in plasma electromagnetic and electrostatic instabilities (e.g.: Alfvén eigenmodes, Drift waves, Interchange, Tearing and Microtearing modes) and characterization of magnetic reconnection processes
- Development of low power atmospheric plasma sources for plasma medicine application
- Adjunct Professor at the University of Padova
- Supervisor of undergraduate, graduate and PhD students
- Referee for plasma and/or general physics journals (including Physical Review Letters, Nuclear Fusion, Physics of Plasmas, Plasma Physics and Controlled Fusion, Scientific Reports)

## SUMMARY OF PUBLICATIONS

- 118 papers (16 as leading author) in peer-reviewed journals.
- 5 international and national patents
- More than 2300 citations in total
- H-index: 25 (ISI Web of Science)
- 200+ conference contributions (10 invited contributions)