

Education

1999 **M. Sci. Physics**, *Università degli Studi di Padova*. Grade: **110/110 cum Laude**
 2002 **PhD in Energetics**, *Università degli Studi di Padova*

Employment

2003–2015 *Consiglio Nazionale delle Ricerche and Consorzio RFX*, Researcher
 2015–2016 *Swiss Plasma Center, Ecole Polytechnique Federale de Lausanne*, Researcher
 2016–Date *Consiglio Nazionale delle Ricerche* Researcher

Responsibilities

2007–2016 Responsible Officer for several devices in the RFX-mod and TCV devices
 2009–2011 Task force leader in RFX-mod experiment for task force *Particle, Momentum and energy transport* and emphPhysics integration for high performance RFP
 2011 Coordinator of the EFDA working group *3D field effects in edge and SOL and diagnostic development* under EFDA Transport Topical Group.
 2012 Member of the Program committee of the 17th Joint EU-US Transport Task Force Meeting 2012, Padova, Italy
 2013–2020 Scientific Coordinator of several experiments and tasks within EUROfusion Work-package JET1, and MST1 *JET-B13-19 Investigation of M-Mode*, *AUG14-2.2-3, SOL filamentary transport at high density*, *TCV15-2.2-3: Filamentary Transport in the SOL*, *TCV15-1.5-1, Mitigation of high Z impurity accumulation through combined central ECRH and tailoring of MHD activity in high performance H-modes*, *Filamentary transport in high-power H-mode conditions and in no/small-ELM regimes to predict heat and particle loads on PFCs for future devices*, *JET Task T18-02 Scrape-off layer and SOL- pedestal interaction*, *JET-M18-41, Divertor geometry effect on detachment and SOL*
 2022 Member of the Program Committee of the 48th EPS Conference on plasma physics
 2019–Present ITPA Div-SOL coordinator of *JEX Far SOL transport and link to detachment*
 2019–Present European representative at the *Pedestal and Edge Physics* ITPA Topical Group
 2020–Present Deputy task force leader of EUROfusion Package *Tokamak Exploitation*
 2020–Present Project board member of the Eurofusion E-TASC board under Work-package *Advanced Scientific Computing*

Research Interests

I've been involved in fusion plasma science since my M.Sci. thesis in Physics in 1999. Main research subjects involve, **Electromagnetic edge turbulence induced transport**, **Blobs and ELM filaments**, **Shear flow generation mechanism**, **Magnetic topology and its relation to transport**, **Divertor and SOL physics and impact on pedestal transport**. Large expertise on high level scientific objectives definition for integrated experiment, analysis and modeling of Divertor, SOL and pedestal physics.

Publications

I've authored a total number of **143 Articles** in peer reviewed journal, more than **90 Conference proceedings** and personally presented **18 oral contributions**. The complete list of publications is available upon request.
 h-index factor: **30** (ISI Web of Knowledge), **34** (Scopus) and **43** (Google Scholar) (last update September 14, 2022)