

Gabriele Cristoforetti is a permanent researcher at the National Institute of Optics (INO), which is part of the National Council of Research (CNR) in Italy. He works in the Intense Laser Irradiation Laboratory (ILIL) at the Pisa section "Adriano Gozzini" of the INO institute.

After graduating in Physics in 1998 at the University of Pisa, he obtained his PhD in 2004. He has a long experience in laser-induced plasmas, ranging from low irradiation intensities near the ablation threshold (for applications as microdrilling, elementary analysis of materials, synthesis of nanoparticles) up to relativistic intensities obtained in ultrashort CPA laser systems (for applications as energetic electron and proton generation, high energy density physics), and experimental techniques devoted to plasma characterization. He is at the moment involved in European campaigns devoted to Inertial Confinement Fusion investigation (PALS, Vulcan, LMJ, Omega), working in particular on the investigation of parametric instabilities and hot electrons generation in regimes relevant to the Shock Ignition.

He is author of 90 publications, of which more than 70 are ISI publications and 4 chapters in books, with a **H-index of 34** (Google Scholar), **29** (ISI-web of knowledge). He presented his research in numerous international conferences, including 9 invitations/Keynote speakers, and organized two international conferences (LIBS 2000, Tirrenia, Italy 8-12/10/2000 e EMSLIBS 2009, Tivoli, 28/09-1/10 2009). He has experience in teaching in international Schools and in following students in Physics. He is habitual referee of many international journals. He worked in many European and Italian projects and covered several responsibility roles, including responsible of scientific activities, PI in experimental campaign, responsible of unit research in project, and member of the Council of Institute. He is at the moment responsible of the Pisa unit of the project *Preparation and Realization of European Shock Ignition Experiments* funded by EuroFusion and led by D. Batani.

He won two prizes, including the Award 2010 of the Journal Spectrochimica Acta part B: atomic spectroscopy for the best paper (250 citations according to Google Scholar) and the prize 2005 for young researchers assigned by Italian CNR.