

Biography

Dr.Ing. Christophe Turpin received the Ph.D. degree in Electrical Engineering from the University "Toulouse INP" in 2001. Since November 2002, he has been a Full-Time Researcher at the CNRS, assigned in LAPLACE (Laboratory on Plasma and Conversion of Energy, Toulouse).

Within the lab LAPLACE, he has been leading activities on hydrogen technologies (fuel cells and electrolyzers) since 2002. At the scale of University of Toulouse, he is the head of the deployment of a new very ambitious hydrogen test platform (+10,000m²) involving four Toulouse laboratories recognized around hydrogen technologies (LAPLACE, LGC, IMFT, CIRIMAT) and several industrial partners. At the France scale, he is very involved in the Federation CNRS FRH2 which brings together a few key university players around hydrogen. His own research activities include: modeling and characterization of fuel cells and electrolyzers, diagnosis of their state of health study of their ageing and their optimized implementation within energy systems. The main aimed fields are aeronautical applications and the valorization of renewables energies (particularly the micro-smart grids including a H₂/O₂ battery).