Prof. David Duday

Nanomaterial Unit
Material Research and Technology (MRT) department,
Luxembourg Institute of Science and Technology (LIST)
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Education

January 1998	Ph.D. Material Sciences « Protection of TA6V titanium alloy against high temperature oxidation ». Université de La Rochelle (France)
July 1993	M.Sc. Material Sciences (Master 2) « Elaboration and characterization of MoSx thin films». Université de Poitiers (France)

Professional Experience

Since Jan. 2015	Luxembourg Institute of Science and Technology, Senior Researcher in nanomaterials for biomedical and chemical applications in MRT department
May 2003 - 2014	CRP Gabriel Lippmann (Luxembourg), Researcher in Plasma (ionized gas) applications in Material Science Department

Research & Technology

DD's research interests lie at the interface between plasma discharges, nanomaterials and catalysis with an interest for the design and fabrication of clean technologies for biomedical applications and nanomaterial production. In this framework, DD is currently involved in the design, fabrication, up-scaling and application of advanced processes and materials through different projects including NBactSpace (ESA), 1008, PNANO4BONE and LIGNP4WOUND (FNR projects). DD's main research objective is to acquire a broad knowledge of the interaction of plasma reactive species, liquids, cells and particles/powders in order to propose and up-scale new nanomaterial production technologies and advanced medical devices. DD is (co)author of more than 50 papers (h-index of 17), 4 patents and 60 communications in international conferences. Now MC member of the COST action CA17140 dealing with nanomaterial production for clinical applications and CA19110 dealing with plasma agriculture and food processing