


Personal Information

Full name	Daniil Marinov	
Current position	Postdoctoral associate	
Organization	Laboratory of Plasma Physics, Ecole Polytechnique/CNRS	
Country	France	

Short Biography

Dr. Daniil Marinov has received his PhD from Ecole Polytechnique (France) in 2012. His PhD thesis was devoted to the fundamental study of surface processes in N₂/O₂ plasmas. After a postdoc at The Open University (UK) where he worked on novel strategies for sub-10 nm etching using energetic neutral beams he is currently Postdoc at Ecole Polytechnique.

The research of Dr. Marinov is focused on the kinetics of reactive molecular plasmas interacting with surfaces. He develops original diagnostics techniques for *in-situ* investigations of gas phase and surface processes of radicals and vibrationally excited molecules in plasmas. Currently he is working on ultra-sensitive broad-band and laser diagnostics of high density plasmas in Cl₂, O₂, HBr and their mixtures. This work is done in collaboration with experts in numerical simulations (Prof. M. Kushner of Michigan and Prof. V. Guerra of Lisbon) with the aim to validate and improve physico-chemical models of these plasmas. Dr. Marinov is also involved in the development of plasma based processes for cleaning and doping of graphene and other 2D materials.