



C. Drouet is a CNRS Research Director, leader of the “*Phosphates, Pharmaceutics, Biomaterials*” research group at CIRIMAT Institute, University of Toulouse, France.

Ph.D. in Materials Sciences. Research fields concern the physico-chemistry and thermochemistry of natural or synthetic (bio)minerals such as biomimetic nanocrystalline apatites, and the study of their surface characterization and reactivity. Key milestones include 3 years (2001-2003) spent as Research Associate in Prof. Alexandra Navrotsky’s group at UC Davis, USA, for thermochemistry/stability studies of hydrated mineral compounds, as well as other research stays including in Prof. J.L.G. Fierro’s group at the University of Madrid, Spain, for the exploration of the surface of solids via X-ray photoelectron spectroscopy and via the follow-up of molecular adsorption and desorption processes.

A special focus in C. Drouet’s research is dedicated to the investigation of calcium phosphates and related compounds, in particular of *biomimetic nanocrystalline apatites analogous to bone mineral*, including the exploration of detailed physicochemical (e.g. development of the model of the hydrated ionic layer on apatite nanocrystals...) and thermodynamic characterization, with the final view of innovative bio-medical applications (multifunctional bone repair *bioactive biomaterials*, colloidal nanoparticles for *nanomedicine*...) and for a better understanding of *biomineralization* and *bone diagenesis* processes.

Beside the publication of ~100 articles, C. Drouet's scientific production includes the co-writing of 8 book chapters and 2 patents. C. Drouet received the “*Racquel Legeros Award*” in June 2013 and the “*Excellence Award*” 2016 delivered by the International Society for Ceramics in Medicine (ISCM) for contributions to the field of calcium phosphate research.

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