

# Dr. Marie Pierre KRAFFT

CNRS Research Director

Institut Charles Sadron (UPR 22)

University of Strasbourg

23 rue du Loess

67034 Strasbourg

France

E-mail: [krafft@unistra.fr](mailto:krafft@unistra.fr)

Tel: (+33)388414060



Marie Pierre Krafft obtained her Ph.D. (1989) and Habilitation (1995) from the University of Nice, where she worked with Professor Jean Riess on the synthesis and evaluation of fluorinated surfactants for stabilization of oxygen-carrying perfluorocarbon emulsions. She did post-doctoral work in California (1990) and Japan (1996). Presently a *Research Director* at the Charles Sadron Institute (CNRS) and University of Strasbourg, she focuses on self-assembled systems and in particular on the synthesis and uses of fluorinated components for the engineering and functionalization of such systems. She investigates multi-compartmented micro- and nano-scale objects, including surface films, vesicles, tubules, emulsions and microbubbles, with applications in biomedical sciences (lung surfactant, tissue oxygenation, cell adhesion control, diagnosis) and materials sciences (control of nanoparticle organization on flat or spherical nanopatterned surfaces for multiscale devices). She has published over 120 articles in International Journals (h index 33, 3100 citations, *Web of Knowledge*; July 2014), holds 9 patents and has given over 50 invited lectures in International meetings. She is a Section Editor for *Current Opinion in Colloids and Interfacial Science* and member of the Editorial Board of the *Journal of Fluorine Chemistry*. She is a member of the International Scientific Committee of the *Henri Moissan Prize* (Fluorine Chemistry), of the Scientific Committee of the *International Symposia on Blood Substitutes*, and of the Executive Committee of the *French Network on Fluorine Chemistry*. In 2015 she received the 2015 Lectureship Award of the Division of Colloid and Surface Chemistry (The Chemical Society of Japan).