

LE STUDIUM CONFERENCES



Dr Laure **MONCONDUIT**

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Laure Monconduit received her PhD in Inorganic Chemistry in 1994 from Nantes University, at the Institut des Matériaux Jean Rouxel (France). After a postdoc with Prof. Von Schnering at the Max Plack Institut at Stuttgart, Germany, she was appointed researcher at CNRS in 1996. She was promoted CNRS research Director in 2011. She currently leads a group of 8 permanent researchers, ca. 12 PhD students and postdocs. First years at CNRS were devoted to research of new materials with original structure and properties. After the discovery of a new lithium rich pnictogenides family she progressively shifted to materials for Li batteries. Her current research directions include the synthesis and characterization of new electrodes materials for Li-ion, and for post-Li systems: Na-, K-, Ca- ion batteries, the improvement of their performance by playing on the nano-structuration and the electrode formulation, on the confinement in carbon matrix... The understanding of the electrochemical mechanism through operando characterization technics (XRD, IR-ATR, Raman, Mössbauer spectroscopy) is the center of her research. She was leading the thematic group Li-ion of the European network ALISTORE-ERI and co-responsible of the same thematic group in French network RSE2. LM is/was leader (2 ANR) or participant of numerous scientific projects, National projects (ANR, CNRS), European or International project (FP7, H2020 (POROUS, VIDICAT), bilateral (Israel, UK)). She has also numerous collaborations with industrial partners (Saft, Umicore, Total S.A., Hutchinson, Nanomakers...). She is the author of 150 articles in international peer reviewed journals, of 10 patents, of 5 book chapters, of more than 40 oral presentations in international conferences including 20 invited lectures. She is editor of 2 volumes for the Royal Society, ISTE-Sciences.