



Prof. Bernard Lestriez

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Bernard Lestriez is a chemical engineer and obtained his PhD in the field of polymer based composite materials in 2000. Since 2001 he is assistant-professor at the University of Nantes in France and does his research in the group headed by D. Guyomard at the IMN. He is mostly known for his expertise about the design of the formulation and the processing of composite electrodes for lithium batteries (aqueous processing of LiFePO₄-based electrodes, critical role of binders and conductive additives for Si-based electrodes). In 2007 he started a fundamental study of the electronic and ionic limitations to power performance of composite electrodes, in close collaboration with an expert in the broad band dielectric spectroscopy technique, J.-C. Badot. Today, he is sharing the responsibility of the battery group at the IMN and is leading several French top-level research programs (Pepite, Tours 2015 ...) about new electrode designs for lithium ion and lithium metal batteries and microbatteries, as well as numerous industrial research collaborations with international groups (Solvay, Renault, Umicore, STMicroelectronics ...). 73 publications, 15 patents, 3 book chapters.