

David Portehault has been a fellow of the Ecole Normale Supérieure (Paris). He completed his PhD in soft chemistry and nanomaterials at Université Pierre et Marie Curie (UPMC, Paris). He has been nominated by the Excellence CNRS – Max Planck Society post-doctoral program for Nanomaterials to perform a senior post-doctorate at the Max Planck Institute for colloids and Interfaces (Potsdam) from 2008 to 2010. He was recruited by the CNRS in 2010 as researcher in the Lab Chimie de la Matière Condensée de Paris affiliated to Sorbonne Université, CNRS and Collège de France. His core expertise is functional nanomaterials synthesis with the exploration of new territories in inorganic compositions at the nanoscale, in order to provide properties unachievable with common compositions. He is developing original synthesis methods and instrumentation, using liquid media unusual in nanomaterials synthesis, especially molten salts. He is exploring a wide range of nanomaterials, from oxides to borides, polycationics, metals and nitrides, spanning a wide range of properties, from batteries, thermoelectricity, to spin transport and plasmonics. He is author of 60 peer-reviewed publications, of which two thirds are issued in high impact journals, together with 6 patents and 2 book chapters. He has been awarded in 2016 by the French Chemical Society for his achievements in nanoscale solid state chemistry.

