Lifeng Liu received his B. S. degree in Applied Physics from Beijing Jiaotong University (2001), and both his MS (2004) and PhD (2007) degrees in Condensed Matter Physics from the Institute of Physics, Chinese Academy of Sciences. He joined Max Planck Institute of Microstructure Physics – Halle, Germany in 2007, first working as a postdoctoral researcher and then as a staff scientist. He started his independent research career in 2008 and became the group head in 2009. In 2011, he moved to the International Iberian Nanotechnology Laboratory (INL) and set up a research group there. Lifeng has been actively working on nanomaterials and nanostructures since 2002, with particular emphases on fabrication and characterization of complex nanostructures, nano-magnetism, nanoscale solid-state reactions, ferroelectric nanostructures and nano-electrocatalysts. His recent interest is mainly focused on nanomaterials for renewable energy generation, storage, and conversion. So far, he has authored/co-authored 110 peer-reviewed papers in major international journals, which have been collectively cited >3400 times, leading to an h-index of 36. Lifeng has delivered about 30 oral presentations at different international conferences/workshops/universities. In addition, he has offered extensive professional services to the community: he actively serves as a reviewer for ca. 60 scientific journals and for grant applications for several funding agencies. He was a member of organizing/scientific committee of a number of national/international conferences. Lifeng Liu was the recipient of the FCT Investigator Grant 2014.