Biography

Prof. Mustapha JOUIAD obtained his PhD in Materials Science at the famous French laboratory CEMES and his Master degree in solid state physics from University of Paul Sabatier, Toulouse, France in 1996 and 1993 respectively.

Prior Joining Physics department at University of Picardie Jules Verne in France as professor, he served in Materials Science program at Masdar Institute of Science and Technology with close collaboration with Massachusetts Institute of Technology as faculty and principal investigator of Advanced Materials & Characterization Lab, he worked at very prestigious universities such as University of Illinois at Urbana Champaign (UIUC) and CNRS France and Lawrence Livermore National Lab (LLNL). His research interests are in functional materials and multiphysics coupling with applications in energy and environment both in theoretical and experimental point of view.

His approach consists in one hand, at developing low dimensional materials having high optical, electrical and catalytic properties to be used for solar energy harvesting and conversion and in the other hand, at evaluating the correlation between the material microstructure evolving at different scales (micro & nano) and its respective macroscopic behavior. The targeted achievement is to be able to predict material properties in order to optimize materials processing and design.

Recently, Prof. Jouiad is focused on the development, modification and characterization of nanostructures, 2D materials, oxide Perovskites, functionalized nanoparticles for PV, H2 production and sensing.