



**Theodore Karakasidis** is currently Professor of Applied Physics at the Department of Civil Engineering of the University of Thessaly, Greece. Before joining the University of Thessaly, Dr. Karakasidis has worked for the French Atomic Energy Commission at the Nuclear Research Center of Saclay and Ecole Polytechnique (Paris). His primary research interests are: Computational Materials Science, atomistic and multiscale modeling and simulation, nanoscience and nanotechnology, naofluidics and microfluidics application for water purification. Dr. Karakasidis received his B.S. in Physics at the Aristotle University of Thessaloniki, Greece (1989), his M.S. (1991) and his PhD in Physics (1995) from University Pierre et Marie Curie (Paris 6), France. He has been involved in several research programs funded by the European Union and the Greek Government. Dr. Karakasidis is the author of nearly 90 publications in international peer reviewed scientific journals, and more than 100 international and national conference papers and presentations. He has also been reviewer and Guest editor in several journals. He is currently involved in research projects related to heavy ion removal from water and water desalination using nanomaterials and nano-fluidics, multiscale modeling of flows and machine learning methods for data analysis.



**Ioannis Sarris** holds a diploma in Mechanical Engineering (1995) from the University of Patras, Greece and a doctoral degree in Mechanical Engineering (2001) from the University of Thessaly, Greece. In 2011, he was appointed as Assistant Professor in Fluid Mechanics and Turbomachinery at the Department of Energy Technology in the Technological Educational Institute of Athens (Greece). He was elected as an Associate Professor at 2016 and joint the Mechanical Department of University of West Attica (Greece) at 2018. He has been involved in various research projects and his research areas include fluid mechanics, transport phenomena, magnetohydrodynamics of liquid metals and plasmas, fuel cells, natural convection, turbulent flow simulation using DNS and LES techniques. Finally, he is the author of several papers in scientific journals and conferences.