Athanasios Salifoglou

Professor, Laboratory of Inorganic Chemistry and Advanced Materials. School of Chemical Engineering. Faculty of Engineering.He has been working and pioneering a) structural speciation approaches to understanding environmental metallotoxin structure-specific influence and impact on cellular physiology and aberrational pathologies in neurodegenerative diseases, b) advancing strategies involving low and high molecular mass species, exerting biological influence on endogenous-exogenous metal ionic complex forms as metallopharmaceuticals in diabetes (I and II, insulin resistance), cancer (lung, breast, colon cancer) and neurodegenerative diseases (Alzheimer, MCI), and c) (nano)biomaterials interfacing synthetic, (bio)physical-(bio)chemical, biological chemistry, molecular biology and biomolecular engineering through molecular markers, key to health risk assessment, diagnosis and potential therapeutics in diabetes, cancer and neurodegenerative diseases. Interfacing basic sciences and (bio)chemical engineering into health physiology-pathology through multidisciplinary approaches at the molecular level (toxicity, signaling, mechanisms, binary-ternary interactions at the genetic and cellular level, toxicology and cellular differentiation) formulates the fundamental platform of technological advancements through research of excellence and has characterized past and currently ongoing research activities financed by (inter)national agencies. He has been teaching-lecturing worldwide on subjects related to interdisciplinary areas a) involving assessment of molecular (patho)physiological patterns influenced by the environment and impacting human health, and b) interfacing emerging hybrid (nano)technologies into theranostics relating to personalized medicine, while as representative of Greece to EuCheMS he has been contributing to the establishment of collaborative networks at the (inter)national level.