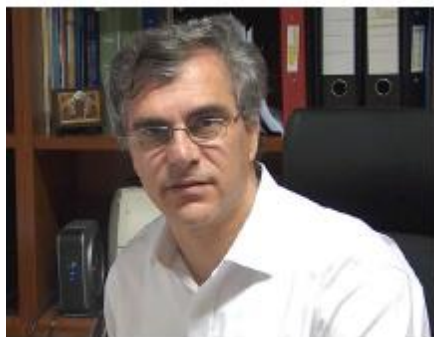


Prof Angelos M EFSTATHIOU

Date: 8 November 10:30-11:30

“How Transient and Isotopic Techniques Advance Optimum Design of Materials with Catalytic Applications”

Abstract: This Lecture will illustrate how the use of the transient method in combination with isotope gases and *operando* methodology (e.g. DRIFTS-Mass Spectroscopy) allows to identify under reaction conditions the chemical nature and site location of *active* species in heterogeneous gas-solid catalytic reactions along with the determination of important kinetic parameters. This kind of information advances the design of appropriate practical catalytic surfaces and leads to the unraveling of *surface chemical structure – performance* (activity, selectivity and stability) relationships.



CV

Angelos M Efstathiou, PhD Chemical Engineering, currently holds the position of Full Professor of Chemistry at the University of Cyprus. He is well-recognised for outstanding research contributions in the fields of environmental and heterogeneous catalysis towards energy production. Prof Efstathiou has over 140 journal publications with over 5000 citations, and is the editor of Catalysis Communications.