



Doctoral Vacancy Announcement form

Research Topic Title: Synthesis and Characterization of Inorganic/Hybrid (Nano)materials for Technological and Biomedical Applications

No. of Openings: (1)

Description: The research will focus on the synthesis and characterization of inorganic/hybrid (nano)materials for technological and biomedical applications. Particular emphasis will be placed on materials incorporating transition metal ions and/or lanthanides. A broad range of chemical and physical synthesis methods will be employed, together with advanced structural, spectroscopic, thermal, microscopic, and magnetic characterization techniques to investigate the composition, structure, and functional properties of the developed materials. The research addresses applications in modern technological and biomedical fields, including sensors, targeted drug delivery, biomedical imaging, catalysis, energy-related technologies, and environmental remediation, among others. This PhD opportunity also provides excellent opportunities for participation in scientific conferences, summer schools, research training abroad, interdisciplinary collaborations, and professional development, enabling candidates to build a strong academic and research profile.

Required Qualifications: Applicants should hold a Bachelor's and Master's degree in Chemistry, Materials Engineering, Chemical Engineering, Physics, or a related discipline. Good knowledge of English, along with strong scientific writing and data analysis skills, is required. Previous experience with laboratory techniques, particularly in the synthesis and characterization of inorganic materials, will be considered an advantage.

Funding: Partial funding, available for a period of three years, subject to funding availability. This includes start-up funding to support initial research activities. The candidate will be encouraged to actively participate in the submission of proposals and research projects related to the subject.

Research Advisor:

Name/Surname: Melita Menelaou

Position: Assistant Professor

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