

RESEARCH AND PROFESSIONAL EXPERIENCE

Acquired experience

- PhD in Materials Science.
- Several years of research experience in field of Chemistry/Materials Science, with particular interest to biomaterials, materials with antibacterial and photocatalytic properties, and the extraction of valuable compounds from waste/by-products.
- Experience of practical work in laboratory: chemical reactions using different media and solvents; manipulation of microorganisms, antibacterial agents and air-sensitive compounds. Use of several analytical techniques for materials characterisation.
- Successful record of application-led collaboration with industries, both large companies and SMEs.
- Published over 90 articles, presented about 100 papers at international conferences, and written many reports for different funding bodies and/or industrial collaborators.
- Experience of coordination of teaching units, managing research projects, project coordination in multi-partner projects, working to strict deadlines and delivering results on time.

Knowledge of wet chemistry and experience of lab work: Extensive knowledge of chemical reactivity principles. Experience in the use of several solvents and in the manipulation of microorganisms. Experience in the synthesis of air-sensitive chemical compounds using glove boxes and Schlenk lines.

Experience in materials characterisation: Use of several analytical techniques, including GC, HPLC, Secondary Ion Mass Spectroscopy, Raman, IR and UV spectroscopies, Zetasizer, Profilometer Imaging, Scanning Electron Microscopy, X-Ray Diffraction, measurements of surface wettability.

Successful history of results and publication: Over 90 papers in peer reviewed journals, over 3,000 citations, h=29. Submitted four patent applications; attended many national and international conferences and presented written and oral communications, delivered various reports to funding bodies or industrial partners. Also given seminars to non-scientists.

Research coordination and management experience: Project coordination for EU-funded networks. My duties included liaising with the partners, organising workshops and meetings, taking the minutes at the project meeting. I was also coordinator of several teaching units and practical laboratory workshops.

Accustomed to work in cooperation with industry: These included both large companies and SMEs. Research teams were always multidisciplinary, including chemists, microbiologists, physicists, chemical, electronic and mechanical engineers.

Application-led research: All research carried out in close contact with industries, for product development and commercialisation.

EU-project evaluation: work with European Commission to evaluate Marie Curie research grants.