Prof. Nicola Pinna

Faculty of Mathematics and Natural Sciences
Department of Chemistry
Analytical and Environmental Chemistry



Expertise
Prof. Pinna works on the development of nanostructured materials. In his current research, he focuses on the synthesis of novel multifunctional materials, their characterization and the study of their physical properties. Together with his team, he works towards several objectives. The first is the synthesis of crystalline metal oxide nanoparticles, heterostructures, hybrid materials and thin films by novel nonaqueous sol-gel routes. In a following step, he assembles the obtained materials. Furthermore, the team carries out their chemical and structural characterisation. This also includes the study of their physical properties, which are among others of optical, electrical, electrochemical, magnetic, catalytic or gas sensing type.

Scientific Services
- transmission electron microscopy, Model type CM200LaB6: bright/dark field, electron diffraction, EDX
- X-ray diffractometer: Cu and Mo radiation, transmission, Bragg-Brentano and reflectometry configuration

Topics / Trends
Coatings / Surfaces

Scientific Institution
IRIS Adlershof

Industries
Energy, Utilities & Raw Materials

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