

<p><b>Research program:</b> <b><i>“Development of heterogeneous catalysts for photo-Fenton based processes”</i></b></p>
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**Annex C**

**Department of Engineering and Applied Sciences**

Tutor: **Prof.ssa Francesca Fontana**

**Research project**

The project will run for a year and will be divided as follows:

Preparation via sol-gel methods of lanthanum ferrites. Characterization by means of X-ray diffraction (XRD) and XPS spectroscopy of the ferrite powders. Development of methods for structuring and / or supporting lanthanum ferrites. Application of different catalysts, both in powder and in a structured form, in the photo-Fenton reaction of simple organic substances, chosen as model pollutants in wastewater.