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**COURSE:** Organic Chemistry for Cultural Heritage (Geosciences Department)

Green Techniques for Organic Synthesis (Chemistry Department)

## 1. RESEARCH AND INTERNATIONAL ACTIVITY

**Areas of scientific interest:** Synthesis and reactivity of organic and inorganic peroxides. Selective oxyfunctionalization of hydrocarbons, olefins, alkynes, non-natural (adamantane, binor-S, cubane), and natural target compounds (peptides). Direct oxy-functionalization and spectroscopic characterization of macrocycles from natural sources for the development of new targeted anticancer drugs. Oxy-functionalization of SWCNT and MWCNT for smart materials. Synthesis and application of heterogeneous organocatalysts for selective oxidation reactions and for reduction of pollutants in air and water. Application of photocatalytic methods in the reduction of carbon dioxide. Synthesis of Polymer Bio-based.

**International Activities:** Collaboration with Chemistry Department of Brown University, Laboratoire Interdisciplinaire Carnot de Bourgogne, CNRS-Université de Bourgogne

**European projects:**

**Erasmus programme:** Tutor for Erasmus+ Traineeship, Erasmus Coordinator of the Department of Chemistry 2016-2019.

2. **ADDITIONAL INFORMATION:** Collaboration with several industries: a) Study Centre for Vehicle Components (BOSCH Group); b) Centro Combustione Ambiente (Italy), c) Greenswitch (Ferrandina, Italy)