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1. **COURSE:** Biorefineries and Carbon recycle

Transition from linear C economy to circular. The natural carbon cycle. Energy use from fossil sources and CO₂ emissions: climate change. Use of perennial and renewable energy. Use of biomass. The biorefinery concept. Application of the biorefinery concept to different biomass. Use of renewable and CO₂: towards a circular C economy. Processes that mimic photosynthesis.

2. **RESEARCH AND INTERNATIONAL ACTIVITY**

Areas of scientific interest: Carbon dioxide utilization in synthetic chemistry, Catalysis, Coordination Chemistry and Organometallic Chemistry, Sustainable Chemistry, Marine biomass from carbon dioxide, Fuels and chemicals from marine biomass, Application of biorefinery concept to produce chemicals, material and fuels..

Author of several **scientific papers** published in international Journals since 1995 and book Chapters (H-index:28).

International Activities:

COST Projects: COST D3/0007/94 (1995-1997) and COST D9/0012/98 (1998-2001);

European projects: "RUCADI - Recovery and Utilization of CARbon DIoxide", BRRT-CT98-5089) (1998-2001); "TOPCOMBI - Towards Optimized Chemical Processes and New Materials via Combinatorial Science", (2005-2010); "EUROBIOREF - EUROpean multilevel integrated BIOREFinery design for sustainable biomass processing" (2010-2015);

Erasmus programme: Academic coordinator (2013-); Application for Erasmus Mundus Joint Master Degree (2016)

2000: National delegate of Expert Group of IPCC Panel (Intergovernmental Panel on Climate Change) for the creation of a Database on Emission Factors.

2005-2010: National delegate for Italian Ministry of University and Research (MIUR) within the EU Project ACENET ERA-NET for Applied Catalysis in Europe

2016- Rector's delegate for "Research and innovation in the field of bioenergy and materials derived from biomass".

3. **ADDITIONAL INFORMATION** (*if need be*)

Include any other information that may be relevant, for example contact persons, etc..