University of NAples: A scientific route through COPIRIDE Project

**Fields of Investigations**

- Soybean Oil Epoxidation
- Hydrogen Peroxide Decomposition
- Biodiesel Production

**Workpackages involved**

- WP1: Catalysts Optimization
- WP2: Intensifying Process Windows and Reactor Engineering
- WP5: Industrial Demonstration Activities by Field Trials
- WP7: Dissemination, Exploitation, IPR and Networking

**Soybean Oil Epoxidation**

1) Kinetic study of Epoxidation reaction in Batch Reactor;
2) Verify of Kinetic Model in tubular reactor
3) Use of Heterogeneous Catalysts for Epoxidation

**Publications in the Field**


**Hydrogen Peroxide Decomposition**

1) Catalysis and kinetic study for hydrogen peroxide decomposition;
2) Use of microreactor for hydrogen peroxide decomposition

**Publications in the Field**


**New heterogeneous catalysts for biodiesel production**

1) Hydrotalcite for neutral oils
2) Nb/Al2O3 or Nb/SiO2 for acid oils

**Publications in the Field**


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