COST ACTION GREENERING – DATA COLLECTION

First name, Family Name: Giuseppe, Pantaleo
Type (Academic or Industrial): Academic
Country: Italy
Leadership position in the COST:
Working Group in which you are involved: WG1 (Energy)
E-mail: giuseppe-pantaleo@cnr.it

Laboratory/Company:
Istituto per lo Studio dei Materiali Nanostrutturati (ISMN) CNR, Via Ugo La Malfa 153, 90146 Italy

Laboratory/Company info (limited to 400 characters):
Laboratory of Catalysis for the environmental pollution control and Energy applications

Link to the home page of the Laboratory/Company: http://www.ismn.cnr.it/

Fields of expertise (limited to 400 characters):
- Heterogeneous catalysis and catalytic tests
- Pollution abatement (deNOx and VOC)
- Hydrogen production (Dry reforming and Partial oxidation of methane)
- Preferential oxidation (PrOx) of CO in presence of hydrogen
- Temperature programmed characterization (TPR and TPO)

5 Main publications or patents:
- "WO_3-V_2O_5 Active Oxides for NO_x SCR by NH_3: Preparation Methods, Catalyst's Composition, and Deactivasion Mechanism-A Review", W. Zhang, S. Qi, **G. Pantaleo** and L.F. Liotta, Catalysts, 9, (2019), 527.
- "Plain and CeO_2 – Supported LaxNiOy catalysts for partial oxidation of CH_4", V. La Parola, **G. Pantaleo**, F. Deganello, R. Bal, A.M. Venezia, Cat. Today, 307 (2018) 189-196.
- "Alumina supported Au/Y-doped ceria catalysts for pure hydrogen production via PROX", L. Ilieva, P. Petrova, **G. Pantaleo**, R. Zanella, J. W. Sobczak, W. Lisowski, Z. Kaszkur, G. Munteanu, I. Yordanova, L.F. Liotta, A.M. Venezia, T. Tabakova, Int. J. of Hydrogen Energy, 44, (2019), 233-245.
- "Ni/CeO_2 catalysts for methane partial oxidation: Synthesis driven structural and catalytic effects", **G. Pantaleo**, V. La Parola, F. Deganello, R.K. Singha, R. Bal, A.M. Venezia", Applied Catalysis B: Environmental 189 (2016) 233-241.
- "Synthesis and support composition effects on CH_4 partial oxidation over Ni-CeLa oxides", **G. Pantaleo**, V. La Parola, F. Deganello, P. Calatozzo, Rajaram Bal, A.M. Venezia, Applied Catalysis B: Environmental, 164 (2015) 135-143.

Collaborations:

- Indian Institute of Petroleum (CSIR-IIP India)
- Academy of Sciences of Hungary (HAS)
- Academy of Sciences of Bulgary (BAS)
- Tomsk University (Russia)
- University of Lille (France)

Facilities:

- Micromeritics Autochem 2910 and 2950 HP instruments for TPR, TPO, pulse chemisorption
- Reactor line equipped with mass quadrupole (QM-Pfeiffer Balzers Quadstar) and ABB UV-IR detector
- Termogravimetric analysis (TGA -DSC) Mettler Toledo connected with QM (Pfeiffer)
- Specific surface area and pore size distributionASAP 2020 Micromeritics
- X-ray diffraction Bruker D5000