

From surfaces to devices: novel perspectives from nanostructured oxides and carbon materials

Nanostructured oxides and carbon materials represent an extremely rich playground for many applications, ranging from sensing to photodetectors, from photovoltaics to photocatalysis. These materials are expected to meet the requirements on sustainability practices and the need for new ideas to boost the energy transition.

In this Workshop, we will focus on nanostructured oxides and carbon materials addressing their role in applications and devices. Attention will be paid to functionalization and doping, as well as to the opportunity provided by *ab-initio* calculations to disclose the mechanisms underlying devices operation.

Bringing together junior and senior scientists from the nanoscience research community we aim to offer participants a perspective on novel approaches to device development starting from nanomaterials surfaces and interfaces.

The workshop will host three Sessions: (i) Nanostructured oxides, (ii) Nanostructured carbon, and (iii) Computational and experimental methods for surface analysis

Speakers

Antonio TRICOLI, University of Sydney (AUS)

Manuela SCARSELLI, Università degli Studi di Roma - Tor Vergata

Elena SPAGNOLI, University of Ferrara

Vincenzo GUIDI, University of Ferrara

Andrea CASOTTO, Università Cattolica del Sacro Cuore, University of Notre Dame (IN, USA)

Barbara FABBRI, University of Ferrara

Hakimeh PAKDEL, Università degli Studi di Brescia

Gilbert NESSIM, Bar Ilan University (IL)

Steven DE FEYTER, KU Leuven (B)

Mario TRIONI, Consiglio Nazionale delle Ricerche CNR

Daniele PERILLI, Università degli Studi di Milano - Bicocca

Aldo UGOLOTTI, Università degli Studi di Milano - Bicocca

Sonia FREDDI, Università Cattolica del Sacro Cuore

International Workshop

December 12th, 2022

Aula 1, 9:00-12:30; 14:00-17:30

Via della Garzetta 48, Brescia

[Click here to join the meeting](#)

