C'Nano
THE NANOSCIENCE MEETING
2023
Poitiers
March, 15, 16 and 17

Nanomaterials for Energy

(Last update: July 8th, 2022)

Description

- Nanostructured materials offer huge surface to volume ratios and favorable properties for energy-related applications such as solar cells, fuel cells, thermoelectrics, batteries, supercapacitors and hydrogen production and storage systems. In this context, this session focuses on different topics concerning:
- Elaboration and characterization of nanomaterials for (bio)energy production and storage
- New processes of elaboration and implementation in devices (nano-micro systems)
- Phonon, electron, photon and mass transport properties
- Measurement methods, simulation and modelling of nanostructures, nano-structured materials and interfaces
- Limitations and challenges of nanomaterials while being used in energy-related applications

Keywords

nanomaterials: elaboration, characterization, modelling; energy production and storage systems

Scientific committee

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