C'Nano
THE NANOSCIENCE MEETING

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2D Materials
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Description

Since the discovery of graphene and the subsequent Nobel Prize for its fascinating two-dimensional (2D) properties, a wide variety of atomically thin materials has been discovered. Among them, we can quote metal dichalcogenides, hexagonal boron nitride, Xenes, layered double hydroxides, clays, layered oxides, MXenes, van der Waals heterostructures, 2D-MOFs…

The properties of this family of nanomaterials in the domains of magnetism, catalysis, superconductivity, optoelectronics, spintronics, topological insulation, biomedicine, etc… are singularly different from their three-dimensional counterpart, opening new perspectives in many applications.

The purpose of this session is to present the latest advances in this field in full effervescence concerning their synthesis, characterization and properties.

Keywords

Atomically thin materials, 2D synthesis, 2D characterization, 2D properties

Scientific committee

Stéphane CELERIER * (CNRS – IC2MP, Poitiers)
Catherine JOURNET-GAUTIER (Lyon Univ. – LMI, Lyon)
Laurence MASSON (Aix Marseille Univ. – CINaM, Marseille)
Geoffroy PREVOT (CNRS – INSP, Paris)
Loranne VERNISSE * (Univ.Poitiers – Pprime, Poitiers)

* Session Coordinator

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