

# INTERNATIONAL SYMPOSIUM POLYMER NANOCOMPOSITES

SEPTEMBER  
28-30<sup>th</sup> **2022**

Lorient, France

<https://ispn2022.sciencesconf.org>



**INVITATION**

The **2022 International Symposium on Polymer Nanocomposites** (ISPN2022) is organized by the French scientific network **GDR PolyNano 2** and the **IRDL** institute (Institut de Recherche Dupuy de Lôme). The conference will be held in **Lorient**, a thrilling town located on the South coast of Brittany, France. Given its location and history, Lorient displays a rich maritime heritage, where naval industry, science and technology have been living in harmony since 1666. Lorient is well-known for its composite materials ecosystem and its European center devoted to sailing and ocean racing. It was also the starting point of the silk maritime road

The symposium will bring together scientists on polymer nanocomposites. The objective is to create an international forum for academic scientists and industrial researchers, PhD students, post-doctorate fellows from all over the world to discuss the latest results, progress and remaining challenges related to Polymer Nanocomposites. This will help set up a multidisciplinary multi-scale approach to advance the understanding and modeling of nano-reinforced polymers. Different communities studying these materials (chemists, physical chemists, physicists, process specialists, mechanics, both on the experimental and modeling sides) will have the chance to discuss the following scientific topics

**On behalf of the Organizing Committee, we would like to invite all the Scientific Community to participate in this symposium, presenting communications or posters related to any of the proposed topics.**

**Looking forward to welcoming you in Lorient!**

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Scientific topics such as:

- **New nanocomposites components** (synthesis, treatment and functionalization of nanofillers; emerging, bio-based components, sustainable polymers),
- **Processing for microstructure control and optimization**, additive manufacturing,
- **Multiscale characterization** of morphologies/microstructures, physical and chemical properties of nanocomposite interfaces/interphases,
- **Structure-properties relationships** (mechanical, conductivity, dielectric, barrier, fire...),
- **Advanced (multi)functionality for smart materials** (electromagnetic shielding, piezoelectricity, energy harvesting and storage, sensors ...),
- **Modeling** (constitutive multiphysics laws, multiscale, machine/deep learning...).

Scientific exchanges around the various themes will be introduced and facilitated by keynote presentations followed by other talks and poster sessions. You are welcome to visit the website of the symposium and submit your papers <https://ispn2022.sciencesconf.org>. You will also find all the information related to your participation (registration, accommodation, travel arrangements, sightseeing etc.).

The symposium will also have a space for companies or institutions to present their products, services, innovations, and research results either as sponsors or exhibitors. If you or your company are interested in participating in this event, please contact us at [ispn2022@sciencesconf.org](mailto:ispn2022@sciencesconf.org).

