

The European Physical Journal

# EPJ AP



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## Call for papers

Applied Physics

### Special Issue on: Nanomaterials: synthesis, characterization, properties and applications

Partial discharge localization  
in power transformers based  
on the sequential quadratic  
programming-genetic algorithm  
adopting acoustic emission techniques  
by H.-L. Liu and H.-D. Liu

#### Guest Editors

- *Dr. Raul Arenal, Instituto de Nanociencia y Materiales de Aragon, CSIC-Universidad de Zaragoza, Spain*
- *Dr. Pascale Launois, Laboratoire de Physique des Solides, CNRS-U. Paris-Saclay, France*

edp sciences

#### Background

Nanosciences and nanotechnologies have led to profound changes in both the scientific and societal fields. These changes are at some point associated to the discovery and synthesis of new nanomaterials, which have led to original physical, chemical and biological phenomena related to the reduced dimensionality of these systems. Their study at the (sub)nanometric

(even atomic) scale is critical for knowing their structure and properties, which is required for their technological and industrial applications.

## Aim and Scope of the Themed Issue

The aim of this Special Issue is to assemble high-quality papers that include the recent progresses and current research on the synthesis, specific properties, characterization and applications of nanostructures and nanodevices. These articles will show the knowledge acquired by modeling and by the use of advanced experimental techniques (microscopies, spectroscopies, scattering (X-rays, neutrons, light)), at all spatial scales, including single nano-objects and supramolecular assemblies, and at all time scales (dynamical studies, ultra-fast characterizations).

The papers of this issue will be based on the contributions (after undergoing the peer-review process of the journal) to the Colloquium 9: Nanomaterials of the Congress 'Matériaux 2022' (24-28 October 2022, Lille, France).

## Submissions

All relevant papers (submitted in the categories 'original paper', 'short communication' and 'review' or 'mini review') will be carefully considered and peer-reviewed by a distinguished team of international experts, and published in accordance to the [Journal's standard policies](#). Full research papers and comprehensive review articles can be submitted online via the journal's [submission and peer review site](#) choosing, during the submission, the Special Issue on: Nanomaterials: synthesis, characterization, properties and applications.

**Submission deadline – December 31<sup>st</sup> 2022**

## Charges

1. There is no submission charge in EPJAP.
2. For papers that have not chosen the Open Access Option (those papers will be read only by subscribers), there are **no publication charges**.

### 3. Open Access Option

To favour a broad and easy access to all published scientific information, EPJ AP uses a service called [Open Access Option \(OAO\)](#). It offers the possibility for authors to make their papers freely available to all interested readers (subscribers or non subscribers) as soon as the articles are published online, in exchange for payment of a [basic fee](#).

- *Waivers and Discounts concerning the Open Access Option:*
  - *EDP Sciences provides a waiver to authors based in countries included in [Group A of the Research4Life programme](#)*
  - *EDP Sciences has signed an APC agreement with the NSLC (National Science Library CAS) the research library service system for the Chinese Academy of*

*Sciences (CAS). Corresponding authors affiliated with [one of the eligible CAS institutes](#), can publish in open access at a 20 percent discounted APC price.*

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