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Call for papers

Themed Issue on 'Indentation advances in experiments and modelling'

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Background

Instrumented Indentation Testing (IIT) has become of the utmost importance for the characterization of the materials. It is supported by both numerical simulations and experiments in and ex-situ while being used across scales and materials.
The symposium “Indentation 2023” from the Group Indentation Multi-Echelle (GIME, SF2M) welcomes both academics and industrials addressing mechanical properties of a broad spectrum of materials. The conference aims to better understand the indentation process and also to share practice between the scientific and industrial communities.

Aim and Scope of the Themed Issue

The purpose of the themed issue: “Indentation advances in experiments and modelling” is to provide the possibility for research outputs
about indentation to be published at the intersection of experiments and simulation.
The issue will specifically target the recent developments in indentation in terms of experiments and simulation results, the extent of the derived properties and indentation applications (fracture, mechanics, constitutive behaviour, plasticity, visco and hyperelasticity). This will be done by sweeping examples of studies on heterogeneous materials, coated materials or soft materials.

The issue will publish work covering all research areas, from fundamentals aspects of indentation to industrial applications, including, but not limited to:

1. Indentation mechanisms, simulation and modeling
2. Thin films and heterogeneous materials
3. Environments: temperature, humidity, dynamic loading...
4. Brittle materials and fracture : ceramics, glasses, concretes...
5. Metallic materials and plasticity
6. Polymers, elastomers and bio-materials
7. Coupling of and in-situ experimental techniques : SEM, TEM...

Submissions

All relevant papers will be carefully considered, peer-reviewed by a distinguished team of international experts, and published in accordance to the Journal’s standard policies. Full research papers and review articles can be submitted online via the journal’s submission and peer review site. Please register choosing the title of the special issue ‘**Indentation advances in experiments and modelling**’.
Please find the instructions for authors at: https://www.mattech-journal.org/author-information/instructions-for-authors

Submission deadline – July 4th 2023

Please find the instructions for authors at: **https://www.mattech-journal.org/author-information/instructions-for-authors**

Article submission and editorial system **here**.

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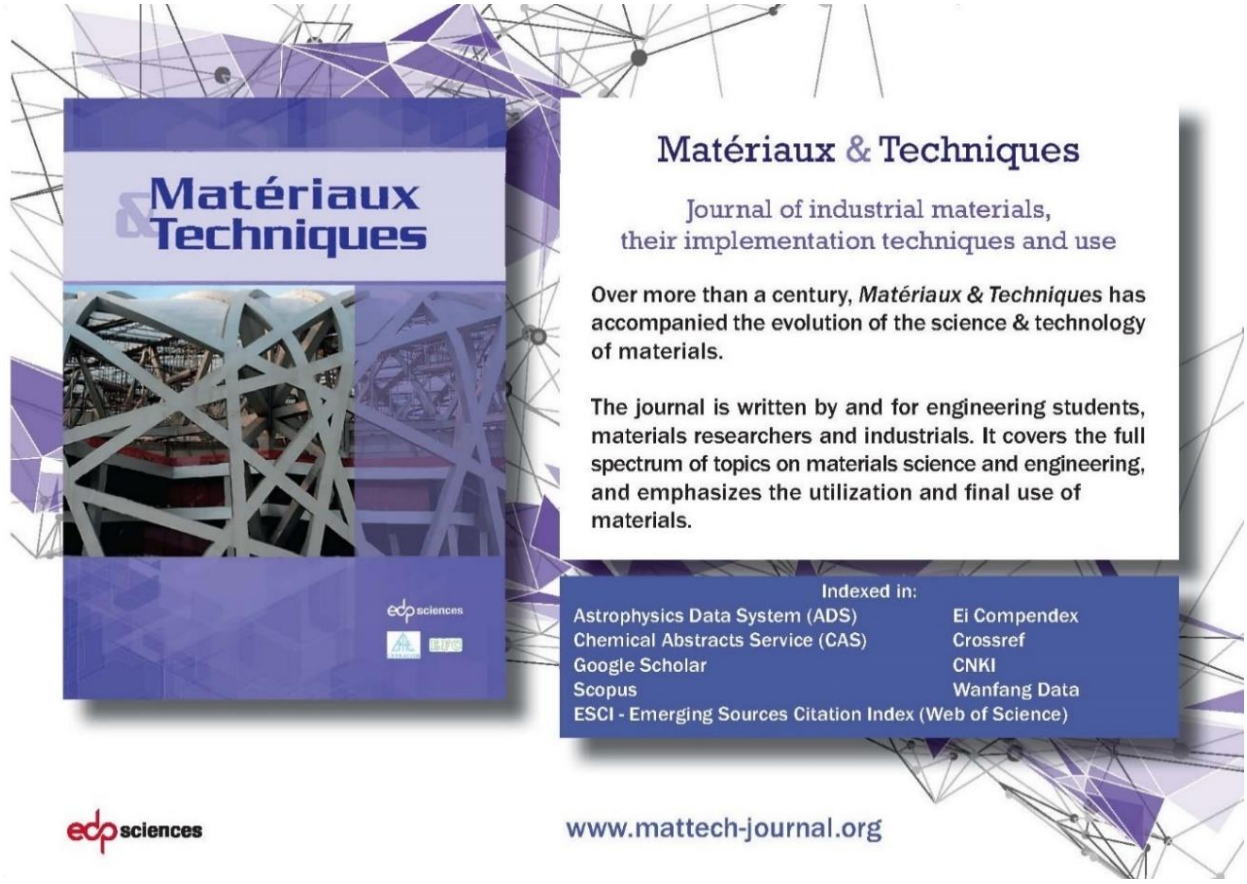

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