

# **Matériaux & Techniques**

## **Call for papers**

Themed Issue on  
'Transitions for materials and society'

### **Guest Editors:**

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**Ayoung Jo**, ArcelorMittal Research, Maizières-lès-Metz, France

**Gaël Fick**, IRT-M2P, Metz, France

## Background

Society is transitioning to a more sustainable future, based on boldly addressing Climate Change, Biodiversity and Air Pollution challenges. Materials along with Energy are the two major physical entities that are at the core of this transition as we are moving from an economy based on the use of fossil fuels to one based on the diverse and rare materials that are needed for harnessing renewable energy: this is a major paradigm shift at both epistemological and geopolitical levels.

On the other hand, the challenge is so high that STEM solutions will not be enough and SSH approaches will be called for if we are collectively to succeed.

## Aim and Scope of the Themed Issue

The aim of this special issue is to achieve the following goals:

### Scientific approaches:

- New developments in LCA, MFA (Material Flow Analysis) and methodologies beyond LCA
- New social, economic and sustainability indicators
- Internalization of societal and environmental externalities into the economy (monetarization, etc.)
- Ecodesign and Ecoinnovation
- Functional Circular economy and Sustainable Business models
- Responsible Research and Innovation on Materials
- Governance, Public and Societal Engagement, Open Science in Materials Research and Innovation
- Gender issues, Materials and Society
- Citizens Science, Scientific Citizenship and Materials Research

### Fields of application:

- Infrastructure and Mobility for Sustainable Cities
- Food, Health, Biodiversity & Ecosystem Services
- Resources, Biomass & Land Use
- Sustainability and Ecodesign of processes, products and services
- Climate Change, Energy Transition and Materials • Environmental footprint of ICT
- Green Transitions & Sustainable Business
- Industrial Symbiosis, manufacturing and end-of-life processes

The articles will be based on contributions presented in the SAM-16 Conference, 8-9 November 2022, organized online. <https://www.linkedin.com/company/86145612/admin/>

## 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, technical 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 'The role of Hydrogen in the transition to a sustainable steelmaking process'.

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

### Submission deadline – February 28<sup>th</sup> 2023

Article submission and editorial system [here](#).

### Charges

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**Matériaux & Techniques**

Journal of industrial materials,  
their implementation techniques and use

Over more than a century, *Matériaux & Techniques* has accompanied the evolution of the science & technology of materials.

The journal is written by and for engineering students, materials researchers and industrials. It covers the full spectrum of topics on materials science and engineering, and emphasizes the utilization and final use of materials.

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