

Tentative Outline

Special/Thematic Issue for the journal Current Materials Science

Title of the Thematic Issue: “Advance and Sustainable Materials for Industrial Applications”

Guest Editor: Prof. Dr. Divya Bajpai Tripathy

- **Scope of the Thematic Issue:**

Serious environmental concerns and increasing demand of advance materials like nanomaterial, polymers, surfactants, etc. motivate the researchers of chemical science and chemical engineering to design such a product that will not only be cost-effective with good efficacy but also have a nontoxic and non-harmful impact on our planet.

Sustainability of products and processes is the main concern of today's researchers.

The scope of the proposed thematic issue is to invite updated reviews on sustainable materials of different types. This issue will be based on the industrial applications of sustainable advanced materials and will discuss how these biobased products are superior over their conventional counterparts. Moreover, future prospects and limitations of these products along with the research gap will also be covered. This will help to direct channelize the research of today and tomorrow.

Keywords: Biosurfactants, bio-emulsifiers, Bio-composites, Biomarkers, Biosensors, sustainable nanomaterials, Bio-coatings

Sub-topics:

- Natural Surfactants
- Biosurfactants
- Bio-emulsifiers
- Nanomaterials
- Sustainable polymers
- Bio-composites
- Biosensors
- Battery Technology

Tentative titles of the articles:

- Biosurfactants and their industrial Applications
- Bio-emulsifiers and their industrial Applications
- Industrial Applications of sustainable Nanomaterials
- Bio-polymers and their Industrial Applications
- Bio-composites and their Industrial Applications
- Biosensors and Biomarkers: Present and Future Applications
- Switchable solvents in Industries.
- Bio-coatings in Food and Pharmaceutical Industries

Schedule:

- ✧ Thematic issue submission deadline: **September, 2023**

Contacts:

Guest Editor Name: Prof Divya Tripathy

Affiliation: Galgotias University

Email: divyabaj@gmail.com