

## Special Issue

# Modeling and Optimization of Material Properties and Characteristics

### Message from the Guest Editors

This Special Issue, entitled "Modeling and Optimization of Material Properties and Characteristics", is the perfect opportunity for researchers to present their research on the behavior, parameters, characteristics and application of various materials. The scope of this Special Issue includes, but is not limited to, the following topics: Theoretical and experimental studies on the material properties, characteristics, and behavior of a specific material; The mathematical modeling of the parameters of material properties and characteristics of a specific material using regression models, artificial neural networks (ANN), and other methods; The optimization of the properties and characteristics of materials using optimization algorithms and techniques; The mathematical modeling and optimization of the parameters of different types of machining and additive manufacturing materials using regression models, RSM, ANN, and other methods.

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### Guest Editors

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### Deadline for manuscript submissions

20 August 2025



## Materials

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## About the Journal

### Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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