

Special Issue

Computational Methods in Materials Design

Message from the Guest Editors

The prospect of finding new materials, with unusual yet effective properties, that transcend the properties of natural materials has captivated the interest of the world's scientific community. One method of obtaining these new, advanced materials involves the rational manipulation of a material's microstructure, transforming it into a "smart material" with especially favorable properties for specific engineering applications. This Special Issue invites (but not is limited to) works that propose the application of mathematical models as well as the implementation of computational tools to design materials with extraordinary and/or controlled properties, as well as macroscopically-controlled response devices, targeting specific engineering applications.

Guest Editors

Dr. Ignacio Peralta

1. Institute of Construction and Building Materials, Technical University of Darmstadt, 64287 Darmstadt, Germany

2. Research Center for Computational Methods, UNL/CONICET, Santa Fe 3000, Argentina

Dr. Víctor D. Fachinotti

Research Center for Computational Methods, UNL/CONICET, Santa Fe 3000, Argentina

Deadline for manuscript submissions

closed (10 April 2024)



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/175983

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)



About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).