

Special Issue

Innovative Building Materials: Design, Properties and Applications

Message from the Guest Editor

Innovative building materials have been a constant search in Materials Science, due to the importance of the construction sector for technological advancement. The exhaustive use of natural resources to produce binders and other materials, the extensive release of greenhouse gasses, and high energy expenditure contribute to the urgency of developing sustainable construction materials. Recommended topics for this Special Issue include, but are not limited to, the following:

- Development of alternative and eco-friendly binders;
- Study of additional cementitious materials and pozzolans;
- Analysis of geopolymers and activated alkali materials with ecological potential;
- Characterization and application of recycled aggregates in cementitious materials;
- Cementitious and polymeric composites with natural lignocellulosic fibers;
- Characterization and application of waste in ceramic materials;
- Studies of alternative and ecological asphalt and bituminous materials;
- Application of waste and slags in construction materials;
- Life cycle analysis of sustainable construction materials;
- Circular economy analysis of sustainable construction materials.

Guest Editor

Prof. Dr. Markssuel Teixeira Marvila

Department of Civil Engineering, UFV—Federal University of Viçosa, Rio Paranaíba Campus, Rodovia BR 230 KM 7, Rio Paranaíba 38810-000, Brazil

Deadline for manuscript submissions

20 September 2025



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/213207

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

mdpi.com/journal/appls





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)