

## Special Issue

# Mechanical Properties and Characterization Technologies of Composite Materials

### Message from the Guest Editor

In recent years, academic and professional personnel have been increasingly interested in the development of composite materials and technologies to promote high-performance, smart and sustainable construction materials for application in new and existing structures and infrastructures. Advances in our understanding of material behavior also necessitate the development of performance assessment procedures, based on effective experimental verification methods and refined numerical simulation models. This Special Issue aims to collect scientific contributions on the following:

- Mixed design, mechanical properties, and durability of composite materials based on traditional or innovative and sustainable binders also with non-conventional aggregates
- Applications of the different types of fiber-reinforced mortars and concrete composites in civil engineering.
- Mortars and concrete with natural fibers.
- Mortar/concrete with phase change materials (PCMs) or nanomaterials.
- Self-sensing, self-adjusting, and self-healing concrete and mortars.
- Three-dimensional printed fiber/nano-reinforced mortars and concrete.

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### Guest Editor

Dr. Sebastiano Candamano

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### Deadline for manuscript submissions

closed (31 December 2025)



## Applied Sciences

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## 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.

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### Editor-in-Chief

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