

## Special Issue

# Homogenization Methods in Materials and Structures

### Message from the Guest Editors

This Special Issue is dedicated to academic researchers who want to propose studies on the homogenization of complex materials and structures, covering the whole process, from the idealization and design, to the real application. The subject has received great attention in the last few years, involving researchers whose expertise exploits different scientific areas, including continuum mechanics, structural mechanics, acoustics, materials design, and 3D printing techniques. Some of the topics considered for this Special Issue include, but are not limited to, the following:

- The formulation of homogenous models of micro-structured materials and periodic structures;
- The static, dynamic, and stability behavior of homogenous models of lattice members;
- Analytical and numerical methods in materials and structures design;
- Wave propagation in periodic media;
- The experimental validation of the homogenization.

---

### Guest Editors

Prof. Angelo Luongo

Prof. Dr. Francesco dell'Isola

Prof. Dr. Giuseppe Piccardo

Dr. Daniele Zulli

Prof. Dr. Francesco D'Annibale

Dr. Manuel Ferretti

---

### Deadline for manuscript submissions

closed (31 August 2020)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/28131](https://mdpi.com/si/28131)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

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





# 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, Embase, CAPIus / SciFinder, and other databases.

#### Journal Rank:

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