

## Special Issue

# Reinforced Concrete: Materials, Physical Properties and Applications

### Message from the Guest Editors

Reinforced concrete continues to be the most widely spread material in the construction field. Modern trends in civil engineering pose new challenges in optimizing structures, introducing energy-efficient technologies, creating comfortable conditions for a person's stay. This special issue is aimed at solving urgent problems in the field of innovative methods for the manufacture of reinforced concrete, the use of new materials and technologies, application of modern calculation methods. Papers are invited in which urgent problems of the use of new materials, concrete manufacturing technologies, non-destructive testing methods, determination of physical properties, and new applications are considered. Moreover, articles are welcomed that discuss related processes, modeling the behavior of reinforced concrete structures under unsteady influences, and the use of artificial intelligence algorithms. Case studies describing real-world applications of new technologies are also very welcome.

### Guest Editors

Prof. Dr. Alexey Beskopylny

Prof. Dr. Anatoly Lavrentyev

Dr. Evgenii Shcherban

Dr. Sergei Stel'makh

### Deadline for manuscript submissions

closed (15 March 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/54660](https://mdpi.com/si/54660)

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

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