

## Special Issue

# New Challenges in Civil Structure for Fire Response

### Message from the Guest Editors

The rapid development and change of urban areas and products, as well as rapid worldwide technological progress, bring new challenges to the fire security of buildings, especially to energy efficient buildings and civil structures located in wildland–urban interface areas. Furthermore, fire standards do not yet provide a complete guidance on various aspects, including measures and constraints for advanced design, i.e., for advanced fire modelling and coupled thermo-mechanical analysis, for instance, so that the use of high performance computation systems can be performed effectively, on the safety side, and still allow performance-based design and advanced evolutionary optimizations. Therefore, we encourage you to send manuscripts containing scientific findings within the broad field of fire safety engineering. Both theoretical and practice-oriented papers, including experimental and numerical studies, case studies and reviews, are encouraged. Special Issue Link:

[https://www.mdpi.com/journal/applsci/special\\_issues/Fire\\_Civil](https://www.mdpi.com/journal/applsci/special_issues/Fire_Civil)

---

### Guest Editors

Dr. Luis Laim  
Dr. Aldina Santiago  
Dr. Nicola Tondini

---

### Deadline for manuscript submissions

closed (30 May 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/76401](https://www.mdpi.com/si/76401)

*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://www.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 )