

## Special Issue

# Biomedical Applications of Supramolecular Chemistry

### Message from the Guest Editors

Supramolecular chemistry has always found a source of inspiration in living systems. In the past decades, the non-covalent interactions of biomolecules with synthetic ligands, supramolecular assemblies and nanoparticles, has a wide range of applications in biomedical field. In a time when society is demanding new solutions to health challenges (e.g. respiratory infectious diseases, antimicrobial resistance, cancer and neurological disorders) supramolecular chemistry might have a lot to say. This is the driving force behind this Special Issue.

The suggested topics are as below but not limited:

- Non-covalent interaction of synthetic systems with biomolecules and biomedical relevant compounds (nucleic acids, proteins, neurotransmitters, carbohydrates, toxins, etc.).
- Supramolecular systems applied to bioimaging techniques.
- Chemosensors for biomedically important metal cations and anions.
- Interactions of metal complexes (e.g. platinum, ruthenium, iridium, etc.) with biological substrates.
- Biomedical applications of nanoparticles and supramolecular polymers.

---

### Guest Editors

Dr. Mario Inclán

Molecular Science Institute (ICMol), University of Valencia, 46010 Valencia, Spain

Dr. Begoña Verdejo

Molecular Science Institute (ICMol), University of Valencia, 46010 Valencia, Spain

---

### Deadline for manuscript submissions

closed (10 June 2022)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/87432](https://mdpi.com/si/87432)

*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 )