



Polymer Materials Chemistry: Design, Synthesis and Emerging Applications

Guest Editors:

Prof. Dr. Catalin Zaharia

Advanced Polymer Materials
Group, Department of
Bioresources and Polymer
Science, University Politehnica of
Bucharest, 060042 Bucharest,
Romania

Dr. Ionuț Cristian Radu

Advanced Polymer Materials
Group, Faculty of Applied
Chemistry and Material Science,
University Polytechnica of
Bucharest, Str. Gheorghe Polizu
1-7, 011061 Bucharest, Romania

Deadline for manuscript
submissions:

closed (20 May 2023)

Message from the Guest Editors

Dear Colleagues,

The domain of polymeric materials is known world-wide, these materials being key and powerful tools that make our live easier. In this regard, the polymeric domain has gained remarkable permanent progress in different areas in parallel with the development of technology and nanotechnology. Furthermore, new advanced polymeric-based materials are daily reported, together with new synthesis and characterization pathways.

This Special Issue highlights the new synthesis procedure and new reactions of polymer modifications able to produce polymeric materials with special characteristics in:

- Protein engineering and modifications within protein backbone with synthetic polymers (micelles, nanocarriers, etc.);
- 3D manufacturing and additive fabrication (Computer-Aided Design);
- Hydrogels and nanocomposites for biomedical applications (tissue engineering, drug delivery, organ-on-chip, etc.);
- New polymers in electronics, actuators, coatings, green and storage energy.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)