

Special Issue

Advances in Antimicrobial Sustainable Polymers

Message from the Guest Editor

Polymer science is playing a pivotal role in facing these problems by providing a new generation of bio-based materials that can be obtained from renewable resources and be modified or processed in combination with antimicrobial substances and patterned microstructures with the capacity to limit or even rid the bacterial capability to adhere, proliferate, and survive in contact with bioactive surfaces.

This Special Issue of Applied Sciences intends to focus on the most recent advances obtaining antimicrobial sustainable polymers with improved performance for application in antimicrobial food packaging, bacteriostatic textiles, barrier membranes, antifouling, and antibacterial biomaterials and polymer–drug conjugates.

Keywords:

polymers;
bacterial resistance;
antimicrobial food packaging;
bacteriostatic textiles;
antifouling;
antibacterial biomaterials;
polymer–drug conjugates;
barrier membranes;
biodegradable;
bio-based materials;
sustainable;
eco-friendly

Guest Editor

Dr. Luis Rojo del Olmo

Consejo Superior de Investigaciones Científicas, Instituto de Ciencia y Tecnología de Polímeros and Interdisciplinary, Platform for Sustainable Plastics towards a Circular Economy, Calle Juan de la Cierva, 3, 28006 Madrid, Spain

Deadline for manuscript submissions

closed (31 December 2020)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/32825

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)