

Special Issue

Advances in Phytochemical Analysis

Message from the Guest Editor

Phytochemicals are bioactive plant compounds important to the pharmaceutical industry for their anti-inflammatory, antioxidant, anti-pigmentation, antidiabetic, and antiviral activities. In nutraceuticals, they function as active pharmaceutical ingredients (APIs) whose quality and safety require structural identification, validated quantitation, and content standardization. Recent advances in phytochemical analysis include sophisticated mass spectrometry (MS) and nuclear magnetic resonance (NMR), capillary electrophoresis, improved chromatographic methods, and integrated computational tools, which together enhance the identification, quantification, and understanding of phytochemicals in health and disease and advance nutraceutical research and development. This Special Issue highlights advances in phytochemical analysis, focusing on innovative techniques, methodologies, and applications in plant sciences and natural products, and welcomes contributions that deepen knowledge of phytochemical diversity and function.

Guest Editor

Dr. Jeong-Yoon Kim

Department of Pharmaceutical Engineering, Gyeongsang National University, Jinju 660-701, Republic of Korea

Deadline for manuscript submissions

20 May 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/255789

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

mdpi.com/journal/

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





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)