# **Special Issue**

# Application of Supercritical Fluids in Pharmaceutical Science

## Message from the Guest Editor

Supercritical fluids (SCFs), particularly supercritical CO2 (scCO2), have emerged as powerful tools in pharmaceutical science, offering green and sustainable alternatives to conventional solvent-based processes. This Special Issue focuses on the innovative applications of SCFs in drug formulation, bioactive compound extraction, and drug delivery system design. Topics include the use of SCFs for improving the solubility and bioavailability of poorly soluble drugs. encapsulation techniques for controlled release, and purification methods to achieve high-quality, solventfree pharmaceutical products. Contributions will explore the role of SCFs in the development of biocompatible delivery vehicles such as nanoparticles, aerogels, and liposomes, highlighting the advances in both research and industrial applications. By bringing together leading research in SCF technologies, this Issue aims to provide insights into how SCFs are transforming pharmaceutical processes, addressing key challenges in sustainability, safety, and efficiency while advancing the field of medicinal chemistry.

### **Guest Editor**

Dr. Cecília I. A. V. Santos

Department of Chemistry, University of Coimbra, 3004-535 Coimbra, Portugal

# Deadline for manuscript submissions

25 March 2026



# **Pharmaceuticals**

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/219770

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

mdpi.com/journal/ pharmaceuticals





# **Pharmaceuticals**

an Open Access Journal by MDPI

Impact Factor 4.8 CiteScore 7.7 Indexed in PubMed



# **About the Journal**

# Message from the Editor-in-Chief

Because of your expertise in the field of drug sciences, I kindly invite you to consider publishing your current work, in the form of a research article or a review, in the open access electronic journal *Pharmaceuticals*. *Pharmaceuticals* is characterized by an active editorial board and a dynamic editorial staff. Manuscripts are peer-reviewed and a final decision is provided to authors within 4–6 weeks after submission. Papers are published on the web immediately after acceptance. For details on the submission process or any other matter, please do not hesitate to contact us.

We hope to handle your contribution to *Pharmaceuticals* soon.

#### Editor-in-Chief

#### Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Cièncias, Universidade de Lisboa, Lisboa, Portugal

### **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), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

