Special Issue

Supercritical Fluid Technology: Applications and Opportunities

Message from the Guest Editor

The use of supercritical fluid is a green technology that has been highlighted as an alternative to replacing conventional extraction methods with greater efficiency and a lower environmental impact for applications in various fields of knowledge. The main solvent used in different applications of this technology is supercritical carbon dioxide (SC-CO2) since it is nontoxic, non-flammable, non-corrosive, and easy to handle, allowing supercritical operation at low pressures and near room temperature. Supercritical fluid technology offers features that overcome many of the limitations of conventional extraction methods. This Special Issue will be dedicated to the challenges of novel applications and opportunities for using supercritical fluid technology in various areas, highlighting its main technological advances. High quality papers and original research will be published, primarily but not exclusively on the following topics:

- Extraction of bioactive compounds;
- Natural product applications;
- Applications in ecotoxicology studies;
- Food toxicology;
- By-products processing;
- Pharmaceutical science applications.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/169812

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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.

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