Special Issue

Green Extraction and Bioactivity of Plant Active Compounds

Message from the Guest Editors

Efficient extraction methods that preserve the structural integrity of plant bioactive compounds are increasingly needed. Traditional extraction using organic solvents and high temperatures commonly degrades thermosensitive bioactive substances and causes environmental concerns. Green unconventional extraction methods have thus been developed. As a sustainable non-thermal technology, high-pressure processing (HPP) has attracted extensive attention for the efficient extraction of various plant bioactive compounds. Pretreatments can modify plant cell wall structures composed of cellulose, hemicellulose and lignin. Breaking such mass-transfer barriers improves cell permeability and significantly enhances HPP extraction efficiency. With growing research interest in plant bioactive compounds, we invite researchers to contribute original articles, communications and reviews to this Special Issue. Studies on individual bioactive compounds are also welcome.

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Message from the Editor-in-Chief

Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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