Special Issue

Advances in Green Processes for Antioxidant and Antibacterial Polyphenol Extraction

Message from the Guest Editors

Green extraction techniques prioritize environmentally responsible processes, often requiring less energy and fewer harmful chemicals compared to traditional methods. Techniques such as ultrasound-assisted, microwave, and supercritical fluid extraction are gaining popularity due to their efficiency in obtaining polyphenols while minimizing waste and energy use. For example, ultrasound-assisted extraction can accelerate the process and improve yields, making it an effective choice for retrieving antioxidants from various food by-products. By focusing on these green methods, we maximize the use of food resources and reduce our ecological footprint. Extracting polyphenols from by-products like fruit peels, vegetable scraps, and other plant materials not only helps decrease food waste but also harnesses the health benefits that these compounds provide. Polyphenols are known for their antioxidant and antimicrobial properties, which can enhance food quality and safety. Incorporating these compounds into food products improves nutritional value while extending shelf-life.

Guest Editors

Dr. Nada El Darra

Faculty of Health Sciences, Beirut Arab University, Beirut P.O. Box 115020, Lebanon

Dr. Ian Watson

Systems, Power and Energy Research Division, School of Engineering, University of Glasgow, James Watt (South) Building University Avenue, Glasgow, UK

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

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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto
Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

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