Special Issue

Sustainable Beekeeping: Strategies for Enhancing Bee Stress Resistance

Message from the Guest Editors

This Special Issue systematically explores the key factors affecting bee health by integrating the latest research advances across multiple disciplines—including nutrition, physiology, ecology, genetics, technology, behavior, and socioeconomics—and proposes a comprehensive strategy to enhance bees' stress resistance in response to the ecological and agricultural crises caused by their global decline. We seek interdisciplinary contributions highlighting cutting-edge research in sustainable solutions. We are interested in technology-driven solutions for hive health monitoring and nutritional optimization, as well as studies that enhance the value of bee products through nutritional profiling, bioactive compound extraction, and standardized quality and safety protocols. Additionally, we encourage contributions on field-validated sustainable apicultural practices. We also invite analyses of policy frameworks that promote pollinator conservation, aiming to advance ethical and scalable approaches that ensure bee health, ecosystem stability, and the long-term viability of apicultural value chains.

Guest Editors

Dr. Ying Wang

Dr. Xuepeng Chi

Dr. Hongfang Wang

Dr. Zhenguo Liu

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

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Editor-in-Chief

Prof. Dr. Les Copeland
Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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