Special Issue

Chemical Ecology of Orchids: Signals, Symbiosis, and Survival

Message from the Guest Editors

We all know how fascinating the Orchidaceae family is; the intricate ecological networks they establish are, however, still far from being completely understood. Besides the relationship between orchids and their pollinators, which is often based on fine deceptive mechanisms, orchids are also strongly dependent on the symbiotic relationships with soil fungi. Orchids are also able to colonize a wide range of habitats, including heavily disturbed ones, and biogenic volatile organic compounds (BVOCs) may have a role in such ecological plasticity. The considerable number of species, together with their environmental adaptability, make the Orchidaceae family a promising taxon for bioprospecting activities and for the search of novel compounds of interest. Orchids are also a threatened element of ecosystems, making it crucial to deepen our understanding of their autecology to ensure effective conservation strategies. This Special Issue aims to provide an overview of the current research on the chemical ecology of orchids in a broader sense, encompassing the topics described above. We welcome reviews, as well as short communications and research articles.

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Diversity (ISSN 1424-2818) is a scholarly journal that covers all areas of diversity research. Our distinguished editorial board and refereeing process ensures the highest degree of scientific rigor for publishing. Original research articles and timely reviews are released online, with unlimited free access.
We invite papers and reviews on multidisciplinary topics of diversity that bridge organismic diversity (systematics, biodiversity, phylogeny, population genetics, and evolution) and molecular diversity (phytochemistry and biophysics).

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