Special Issue

Chiral Pollutants: Environmental Impact, Detection, and Remediation

Message from the Guest Editor

Chirality is one of the most fundamental properties of nature, and it is important in different branches of science, technology, and medicine, being related to the ability of any object to exist as a pair of non-superimposable mirror images, which are called enantiomers in the case of chiral molecules. It is widely seen and plays a key role in functioning of various biological structures, such as saccharides, proteins, enzymes, membranes, DNA/RNA, etc. Furthermore, chiral molecules are conventionally used and produced by the pharmaceutical, food, agrochemical, perfume, and cosmetics industries. As a result, chiral waste has become an extremely important issue. It is of note that chiral compounds can be ecologically hazardous due to their high biological activity, creating a global pollution problem. Moreover, the corresponding enantiomers have different impacts on living organisms, making it highly important to detect these stereoisomers, which is extremely a difficult and challenging task. Yet, the stereoisomerism of contaminants is presently not being considered in detail...

Guest Editor

Prof. Dr. Victor Borovkov

Tallinn University of Technology, Department of Chemistry and Biotechnology, School of Science Acadeemia tee 15, 12618 Tallinn, Estonia

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

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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