

## Special Issue

# Carbon–Multidisciplinary Investigations and Innovative Solutions

### Message from the Guest Editor

Carbon-based systems are a wide and ever-expanding range of materials. Examples include carbon nanotubes, graphene, polymers, or biomolecules. The myriad of stable forms of carbon is due to its ability to hybridize in many stable bond states and bond strongly with many other atoms; therefore, carbon-based materials are generating tremendous interest among scientists in the fields of physics, chemistry, materials science, and molecular biology. Carbon nanocomposites have made a special contribution to science, becoming a leading sector for research and progress due to their unique mechanical, optical, and electrical properties. The discovery of carbon allotropes, including fullerenes, carbon nanotubes, graphene, and carbon quantum dots, has revolutionized industry. The achievements possible in this area will play a significant role in the quality and safety of people's lives by reducing environmental, soil, water, and air pollution, as well as food waste. Thus, the production of new carbon-based materials, the study of their properties, and their subsequent functionalization are important tasks of materials technology and engineering.

### Guest Editor

Dr. Magdalena Krystyjan

Faculty of Food Technology, University of Agriculture in Krakow, Al. Mickiewicza 21, 31-120 Krakow, Poland

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Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle  
Marche, Via Ranieri 65, 60100 Ancona, Italy

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