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Current and Future Trends in Carbon-Based Materials

Guest Editor:

Message from the Guest Editor

Prof. Dr. Julia A. Baimova Institute for Metals Superplasticity Problems of RAS, Ufa, Russia

Deadline for manuscript submissions: closed (20 November 2023) Dear Colleagues,

Currently, carbon-based materials represent one of the most interesting classes of structures due to their unique properties and wide potential for application in electronic devices, superstrength coatings, as well as for hydrogen energetics. There is a great variety of such structures of different morphology, for example, composites, carbon structures doped with other atoms, and new carbon phases with complex architecture, to name a few. All of these carbon-based materials have their special features and benefits, which can be based on structural peculiarities or on modification by other atoms or by external treatment. One of the important issues is the search for new structures and the development of new synthesis methods to obtain carbon-based materials with improved properties.

This Special Issue focuses on the recent development of new advanced carbon materials and their design, preparation, applications, and future trends in carbonbased materials. Both experimental works and numerical simulations on these new and unique structures are very welcome. Full papers, short communications, and reviews are all welcome.









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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

 Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Materials Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/materials materials@mdpi.com X@Materials_Mdpi