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Structure-Processing-Property Study of Aerogel Composites

Guest Editors:

Dr. Miguel Sanchez-Soto
Department Materials Science and Engineering, Universitat Politècnica de Catalunya-Barcelona Tech (UPC), Escola d'Enginyeria de Barcelona Est (EEBE), Campus Diagonal-Besòs, Av. D'Eduard Maristany, 16, 08019 Barcelona, Spain

Dr. Tobias Abt
Centre Català del Plàstic, C/ Colom 114, 08222 Terrassa, Spain

Deadline for manuscript submissions:
closed (30 September 2020)

Message from the Guest Editors

The Special Issue, "Structure-Processing-Property Study of Aerogel Composites" will encompass the current understanding of structure–processing–property relationships as well as the recent advances in the synthesis, characterization and applications of the different types of composite aerogels. These highly porous materials combine outstanding properties such as low density, ultra-low thermal conductivity, great sorption capacity and high surface area. Multifunctionality can be obtained when small amounts of different fillers are dispersed in the aerogels. Therefore, interesting new properties such as fire resistance, electrical conductivity or magnetic properties can be imparted. Moreover, the relatively low mechanical properties and structural integrity of aerogels are commonly enhanced with the incorporation of reinforcements. Original research papers are solicited on recent developments in aerogel processing, characterization, structure and resulting properties. Articles and reviews dealing with new aerogel applications are also welcome.

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Editor-in-Chief

Prof. Dr. Maryam Tabrizian
1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada
2. 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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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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