

Special Issue

Advanced Functional Low-dimensional Materials and Their Applications

Message from the Guest Editors

While graphene has drawn the attention of the materials science community, other two-dimensional (2D) materials have arisen as a new class of materials with unique properties at the monolayer thickness. Their electrical, electronic and optical properties are of significant importance for a variety of applications in optoelectronics. These materials have also opened new areas of application, such as serving as topological insulators, and will, therefore, be the focus of this Special Issue. Additionally, a few reviews dealing with related one-dimensional functional carbon, boron or silicon nanotubes/nanowires and their applications will also be considered to provide a wider perspective to the field of low-dimensional materials.

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Deadline for manuscript submissions

closed (4 May 2020)



ChemEngineering

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 4.9



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Message from the Editor-in-Chief

ChemEngineering is to consolidate its position as a high-quality, open access journal that not only disseminates excellent research but also sets the agenda for future directions in chemical engineering. We will continue to highlight core areas such as catalysis, process intensification, and the circular economy, while also opening the door to emerging topics such as multi-energy systems that integrate light, heat, and electricity, etc., as well as digital tools, modelling, and artificial intelligence applied to chemical engineering.

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