## **Special Issue**

# Mechanical Engineering: Applications of Advanced Materials and Technologies

### Message from the Guest Editor

In different aspects of mechanical engineering, a variety of advanced materials are used. With the recent technological advancements, advanced materials are being replaced by conventional materials. Nano and biotechnology have been integrated with mechanical engineering systems and designs in a wide range of applications. Lightweight materials have been created with different structures for enhanced efficiency. In addition, 2D materials, functional materials, smart materials, shape memory alloys, phase change materials, naanocomposites, biopolymers, hydrogen storage materials, alloys and compounds, 3D printing materials, fibers and other advanced and novel materials according to the requirement of mechanical engineering applications have been synthesized and characterized. Coating processes are also used to change the properties of materials in real life applications. In this Special Issue, we will highlight the future prospects and challenges of these materials and their applications.

#### **Guest Editor**

Prof. Dr. Mohammad Asaduzzaman Chowdhury Department of Mechanical Engineering, Dhaka University of Engineering and Technology, Gazipur, Bangladesh

### Deadline for manuscript submissions

closed (15 January 2024)



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### Editor-in-Chief

Prof. Dr. Steve W. Lyon

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