Special Issue

Composite Fibers and Their Devices: From Preparations to Applications

Message from the Guest Editors

Flexible electronic devices have recently attracted tremendous attention due to their facile interaction with the subject's body and long-term monitoring capabilities. In particular, stretchable conductive fibers have gained significant attention owing to their ability to be directly woven into or stitched onto textiles for the preparation of devices. These qualities provide better wear-ability and integrality to wearable devices. This Special Issue aims to assess the recent basic and advanced progress on composite fibers used in various applications. The use of stretchable conductive fibers is currently implemented as various flexible sensors in almost every aspect of modern life, such as the physical, chemical, biological, and environmental status of the environments. In such a composite system, polymer matrix materials could introduce superior stretchability for the composite and enclose the functional nanoparticles as coatings, the functional elements covered on the fibers' surface as coatings or enclosed into the polymer matrix could modify and/or increase the functionality of fibers.

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Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.
Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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