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Surface Modifications and Performance Enhancement of Fibers and Its Composites

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Message from the Guest Editors

The aim of this Special Issue is to bring together and showcase the latest research findings, developments, and advances in the field of fiber and composite materials. The main focus is to highlight the impact of surface modifications on the performance of fibers and composites and how these modifications can lead to the enhancement of properties such as strength, durability, and overall performance.

1. Surface treatments and modifications for fiber reinforcement in composites.
2. Surface functionalization of fibers for enhanced interface compatibility.
3. Characterization and evaluation of surface-modified fibers.
4. Surface roughness, wettability, and adhesion properties of fibers.
5. Surface treatments for the improved mechanical performance of fiber composites.
6. Effects of surface modification on fiber–matrix adhesion.
7. Surface modification for enhanced biocompatibility of fiber composites.
8. Advanced fiber surface modification for fire resistance.
9. Surface modification for improved environmental durability of fiber composites.

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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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