

Special Issue

The Preparation and Characterization of Carbon- and Silicon-Based Materials and Their Applications

Message from the Guest Editors

This scope of this Special Issue will serve as a forum for papers in the following concepts:

- 1. Experimental research, knowledge, and new ideas in carbon fibers (mesophase pitch-based carbon fibers, PAN-based carbon fibers, carbon nanocoils, graphene-based carbon fibers, etc.).
- 2. High-performance new electromagnetic wave absorption and electromagnetic shielding materials with coating design.
- 3. The latest development of energy storage and conversion, understanding the degradation mechanisms, new energy storage mechanisms of ion-batteries, capacitors, etc.
- 4. Development and application of atomic layer deposition (ALD) technology.
- 5. Environmental functional materials applied in corrosion protection, anti-pollution materials, adsorption, , with novel coating design.
- 6. Novel catalyst with novel design and fabrication.

Guest Editors

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About the Journal

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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