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New Advance in Nanoparticles, Fiber, and Coatings

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Deadline for manuscript submissions:
closed (31 August 2025)

Message from the Guest Editor

Dear Colleagues,

This Special Issue invites reviews and the latest research focused on the synthesis, properties, and applications of nanoparticles, fiber, and coatings. The coating itself may be an all-over coating, completely covering the substrate, or it may only cover parts of the substrate. Nanoparticles are tiny materials having sizes which range from 1 to 100 nm, and fiber structure is generally known in micro and macro terms. Their reactivity, toughness, and other properties are also dependent on their unique size, shape, and structure.

Hence, potential topics include but are not limited to the following:

- Synthesis methods;
- Structural determination using different diffraction techniques;
- Spectroscopic methods (e.g., IR, NMR, Raman, UV–Vis, CD);
- Characterization of different properties of nanoparticles, fiber, and coatings—catalytic activity, conductivity, magnetic, luminescence, porosity;
- Application of theoretical methods for the determination of structures and properties of nanoparticles, fiber, and coatings;
- A variety of applications of nanoparticles, fiber, and coatings.

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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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