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Functional Coatings, Volume 1

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Message from the Guest Editor

Dear Colleagues,

Coatings often allow process equipment to be purposeful in environments well beyond the operational limit of uncoated components. In addition to protection, some coatings also provide additional functions, such as sensors. Durability, ease of application, repairability, reliability, and long-term performance of such coatings are vital to their application. The overall cost-effectiveness of these functional coatings is key to their industrial uptake. Therefore, this Special Issue of *Applied Sciences*, “Functional Coatings” is devoted to research and review articles on the metallic, non-metallic, and composite coatings used in various environments.

In particular, the topics of interest include but are not limited to:

- Coatings for temperature-sensing applications;
- Photoactive coatings;
- Self-healing coatings;
- Corrosion-, wear-, and cavitation-resistant coatings;
- Coatings for aeroengine turbines, such as thermal barrier coatings;
- Coatings for thermal management;
- High-entropy alloy coatings.

Dr. Shiladitya Paul
Guest Editor



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Special Issue



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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