Special Issue

Emerging Trends in Plasma Coating and Interface Technologies

Message from the Guest Editors

Non-thermal plasma has long been used for coating deposition and surface/interface engineering. Recently, atmospheric pressure plasmas have gained attention for thin film deposition and large-area surface functionalization. When combined with methods like electrospinning, additive manufacturing, laser texturing, and aerosol jet printing, they enable the creation of advanced nano- and bio-interfaces on metals, ceramics, and polymers. Applications include water harvesting, heat transfer, membranes for separation and desalination, sustainable catalysis, low-friction surfaces, and tissue engineering. This Special Issue welcomes recent advances in plasma coatings, scalable atmospheric plasmas, hybrid fabrication methods, and green materials (e.g., eco-friendly hydrophobic coatings). We especially encourage submissions showing innovative materials in water purification, antimicrobial packaging, catalysis, membranes, and thermal management. All article types—research papers, reviews, and communications—are welcome.

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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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