

Special Issue

Surface Engineering Techniques in Advanced Manufacturing

Message from the Guest Editors

Dear colleagues, Surface engineering is pivotal in manufacturing, enhancing material performance and durability without altering their structure. Traditional techniques like coatings, anodizing, thermal spraying, laser modification, and chemical vapor deposition (CVD) are widely used to improve wear resistance, corrosion protection, reduce friction, and enhance aesthetics. These are crucial in industries such as aerospace, automotive, medical, and electronics where material reliability is paramount.

Recently, surface engineering has rapidly evolved with advancements in nanotechnology, additive manufacturing, and smart coatings offering multifunctional properties like self-healing and adaptability. Moreover, surface engineering is poised to become more sophisticated with digitization and AI, enabling precise, tailored treatments. Innovations could revolutionize applications in biomedical implants, electronics, and sustainable manufacturing, making surface engineering a key driver in next-gen manufacturing.

This Special Issue invites researchers to showcase recent developments and future trends in advanced surface engineering techniques.

Guest Editors

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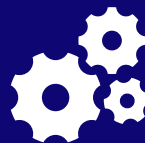
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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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