

Special Issue

Recent Advances in Machining and Metrology in the Manufacturing Industries

Message from the Guest Editors

Machining processes constitute a very important component in modern manufacturing industries, such as automotive, aviation, and biomedical. The surface structure of manufactured components is an important quality indicator in both visual and functional terms. The machined surfaces should exhibit suitable operational properties, which are particularly important in the case of the cooperating components. The precision of the manufactured components and the determination of the values of dimensional and geometrical deviations are also crucial. The topics of the Special Issue mainly include, but are not limited to, the following areas:

- Machining processes of materials;
- Surface texture after machining;
- Dimensional and geometrical accuracy;
- Coordinate metrology;
- Machining-induced strain,
- Machining-induced residual stress;
- Tool wear mechanism;
- Machining dynamics;
- Application of cutting tool coatings;
- Cooling and lubrication techniques in machining;
- Machining processes optimization;
- Simulations of machining processes.

We look forward to receiving your contributions of original research papers and review articles.

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2024)



Coatings

an Open Access Journal
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Impact Factor 2.8
CiteScore 5.4



mdpi.com/si/201308

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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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