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Modern Metal Matrix Composite Coatings Reinforced with Carbides, Borides, Hard Phases and Self-Lubricating Particles

Guest Editors:

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Dr. Adam Piasecki

Deadline for manuscript submissions:
closed (31 December 2021)

Message from the Guest Editors

Dear Colleagues,

We invite researchers to contribute to this Special Issue on "Modern Metal Matrix Composite Coatings Reinforced With Carbides, Borides, Hard Phases and Self-Lubricating Particles", which is intended to serve as a unique multidisciplinary forum focused on the production, properties, as well as applications of composite coatings reinforced with hard phases or self-lubricating particles. In particular, the topic of interest includes, but is not limited to:

-modern production methods of composite coatings;
-laser processing of coatings;
-microstructural analysis of modern composite coatings;
-laser cladding and laser metal deposition;
-scanning electron microscopy in coating testing;
-additive manufacturing;
-arbides and borides in coatings;
-self-lubricating coatings;
-corrosion resistance of coatings;
-wear resistance of coatings;
-phase and chemical composition analysis of coatings;
-microhardness and nanoindentation analysis.

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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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