



Surface Properties of Multi-Component Materials

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Message from the Guest Editors

Dear Colleagues,

Through our history, applied materials have evolved toward more complex compositions, aiming at improving their functionality. Nanocomposites, multicomponent and particularly high-entropy materials (HEMs) are the most recent breakthrough in this search towards materials with optimum mechanical and functional properties. The development of multi-component materials has opened the door to a vast range of feasible compositions to fabricate novel materials with compositional–functional integrated properties.

This scope of this Special Issue will serve as a forum for papers in the following concepts:

Thermodynamic modeling and experimental research aim at developing new HEMs with superior surface properties; HEMs and nano-composite coatings produced by different processes; the surface degradation mechanisms; Nanostructured high entropy materials and nanocomposites; Functional properties of high entropy materials; Modeling and simulation .





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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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