

Special Issue

Thermoelectric Coatings: Thermal Management and Heat Transfer

Message from the Guest Editor

This Special Issue focuses on the thermal management and heat transfer functions of thermoelectric coatings. The topics of interest for this this Special Issue include (but are not restricted to) the following:

- Design of new thermoelectric coating materials for efficient thermal management;
- Advanced preparation processes and scaling-up technologies for thermoelectric coatings;
- Heat transfer stability and failure mechanism of thermoelectric coatings under extreme working conditions;
- Synergistic regulation of thermophysical and thermoelectric properties of thermoelectric coatings;
- Interface thermal resistance regulation and interface bonding strength enhancement technologies for thermoelectric coatings;
- Computer modeling, simulation to predict the heat transfer performance of the coating in service environments;
- The structure–activity relationship between the structure and heat transfer performance of thermoelectric coatings;
- Other aspects of thermoelectric coatings.

Guest Editor

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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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