

Special Issue

Electrocaloric Effect in Thin Films

Message from the Guest Editor

Many studies have been conducted on the electrocaloric effect aiming at the realization of a new solid cooling element with high energy efficiency. Although research on thin films has been actively conducted, most of them indirectly estimate temperature changes, and direct measurement of temperature changes is extremely limited. Obtaining the actual temperature change and its modeling are very important issues. Material challenges include the pursuit of greater temperature changes and greater dielectric strength. In this Special Issue, I would like to call for a wide range of papers on the properties and characteristics of thin films of inorganic and polymeric materials, property prediction, measurement methods, and application possibilities.

https://www.mdpi.com/journal/coatings/special_issues/corros-prot-extreme-environ

Guest Editor

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Deadline for manuscript submissions

closed (31 March 2021)



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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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