



## Ion Conducting Materials and Thin Films

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Deadline for manuscript  
submissions:

**closed (20 August 2021)**

### Message from the Guest Editor

Dear Colleagues,

We would like to invite you to submit your work to this Special Issue on "Ion-Conducting Materials and Thin Films". It is well known that synthesis and formation methods of ionic materials or their components strongly influence physical and electrochemical properties, having an impact on mass and charge transport. The aim of this Special Issue is to present the latest experimental and theoretical developments in the field of ion-conducting materials and thin films, formation methods of ionic devices, influence of used formation technology on ionic conductivity and other properties, and characterization of ion-conducting materials and thin films.

In particular, the topics of interest include but are not limited to:

- Ionic materials and thin film formation technologies;
- Physics and chemistry of defects in solid materials and thin films;
- Ionic transport in materials and thin films structures;
- Characterization of ionic conductive materials and thin films: methods, techniques, and theory;
- Ion-selective membranes;
- Reviews of prior research.





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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.

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