



## Grain Boundary Transport of Solid Oxide Materials

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### Message from the Guest Editor

Dear colleague,

Polycrystalline solid oxide electrolytes are increasingly attracting research attention from the viewpoint of their utilisation as energy materials for various electrochemical devices, from lithium ionic batteries to solid oxide fuel cells. The success in the application of such electrolytes largely depends on the level of their electrical conductivity, which, in turn, is regulated by the bulk and grain boundary conductivities. Although the conductivity values can be quite precisely determined for simple (unipolar- and single-phase) systems, the investigation of multi-phase compositions and/or multi-conducting materials frequently represents a challenging task. This Special Issue aims to provide a unique platform for exchanging opinions and discussing recent achievements in the analysis of “complicated” solid oxide materials, with a particular focus on their grain boundary transportation features. Original research papers, state-of-the-art reviews, and short communications of the theoretical and experimental character are welcome.





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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