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# **Transparent Conducting and Semiconducting Oxides**

Guest Editor:

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Deadline for manuscript submissions:

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## **Message from the Guest Editor**

Transparent conducting and semiconducting oxides (TCO's and TSO's) have emerged in the last ten years as materials with an outstanding and wide range of properties and possible new applications. Their basic physics however is still under debate. Especially the doping mechanism and the search for the dominant donor are still ongoing. A related question is, why they occur preferentially as n-type materials with p-type doping being hard to achieve.

Progress in the growth of large single crystals and the growth of high quality thin films by different methods have initiated a billion Dollar market. Furthermore a wealth of studies on potential further applications like UV blind photodetectors and n-n type heterojunctions for transparent electronics demonstrate the high potential and further prospects.

Researchers are invited to contribute to the Special Issue on transparent conducting oxides which is intended to serve as a unique multidisciplinary forum covering broad aspects of science, technology and the application of films and single crystals.







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## **Message from the Editor-in-Chief**

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