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Advanced/Alternative Transparent Conducting Oxides (Second Volume)

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Message from the Guest Editor

Dear Colleagues,

Nowadays, TCO materials are more important for industry due to the increasing demands of flexible and wearable electronics. However, ITO and FTO are not suitable for flexible and wearable electronics due to the several intrinsic drawbacks. In addition, indium is a rare earth material, resulting in a relatively high material cost for ITO production. Therefore, advanced or alternative materials (eg. metal nanowire or CNT) for TCO are required to develop and investigate next generation smart electronics such as flexible and wearable electronics.

Topics include, but are not limited to:

- Searching and investigating various types of advanced/alternative transparent conducting oxides
 - Doped oxide (indium, fluorine, zinc, etc.)-based transparent conductive oxides
 - Advanced TCO of 1D materials: Carbon nanotubes (CNT), metal (Au, Ag, Cu, Ni) nanowire, other 1D materials
 - Advanced TCO of 2D materials: graphene, graphene/metal nanowire hybrids, other 2D materials
- New synthesis methods, process and fabrication methods, applications for advanced/alternative transparent conducting oxides





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Editor-in-Chief

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Message from the Editor-in-Chief

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