



Surface Modification and Characterization of Transparent and Conductive Thin Films

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

In all technologies based on thin film and interacting with visible light, transparent conductors are essential materials to bring electrical contact to the device while allowing light to pass. Such transparent electrodes are used in energy technologies, either for renewable energies (photovoltaic cells), or for energy sobriety (LEDs, etc.). For example, in the fields of transparent conductor oxides (TCO), the current market, with a volume of around 150 M€, is dominated by a single TCO, indium tin oxide (ITO), which is easy to integrate into a wide range of devices and which shows the best electrical properties and optics among the technologically mature TCOs.

More generally, TC thin films can be developed playing on the control of the strains, of the surface or interface. Today, the large number of thin film deposition techniques allows the development of a wide range of new materials in the field of transparent conductors. This Special Issue aims to provide a platform for this Topical Collection. Full papers, communications, as well as comprehensive reviews are welcome.

We look forward to receiving your contributions.





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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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