Special Issue

Transparent Conducting Oxides

Message from the Guest Editor

Transparent conducting oxides (TCOs) are both transparent to light and electrically conducting. They have diverse applications, including low emissivity coatings for architectural glass and transparent electrodes for solar cells, light emitting diodes and touch screens. Investigations of TCOs spans a range of deposition techniques, including chemical vapour deposition and sputtering, characterization and modelling of optical and first principles theoretical approaches. Much progress is being made in optimization and application of the long-established n-type TCOs. The much poorer performing p-type TCOs are also showing some improvements, as well as benefiting from new materials. New understanding and enhanced properties of TCOs are being discovered using approaches, such as high-throughput screening, combining metal oxides with nanometer-thick metal films, perovskite oxides and correlated oxides that are transparent metals. This Special Issue aims to highlight the recent developments in TCOs encompassing progress in novel and established TCO materials and dopants, as well as the broad field of applications.

Guest Editor

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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