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Transparent Conductive Zinc Oxide: Basics and Applications ...

A still valuable overview of transparent conductive oxides is given in [1], basics to material physics of TCOs are discussed in [2], some structural investigation of TCOs was made e.g., in [3], preparation of TCOs was discussed in [4] and substitutes for the most popular transparent conducting oxide,

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“Transparent Conductive Zinc Oxide: Basics and Applications in Thin Film Solar Cells”; edited by K. Ellmer, A. Klein and B. Rech (Springer, Berlin, 2008).
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Transparent Conductive Zinc Oxide and Its Derivatives ...

Transparent conductive oxides (TCOs) are degenerately doped compound semiconductors with wide band gaps ($E_g > 3$ eV), which are used as transparent electrodes in optoelectronic devices. Reports on the influence of negative ions on the electrical properties of TCO films are reviewed and compared with our results.

Reactive magnetron sputtering of transparent conductive ...

1 TRANSPARENT CONDUCTING OXIDES:
STATUS AND OPPORTUNITIES IN BASIC
RESEARCH Timothy J. Coutts¹, Thomas
O. Mason², John D. Perkins¹, and David

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zinc oxide (ZnO), tin oxide, aluminum doped zinc oxide (AZO), indium oxide and cadmium oxide. ... This article will provide a basic understanding of TCO optical and ... Indium tin oxide (ITO) is the most widely used and developed transparent conductive oxide material and is still the "gold standard" of TCOs.

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This paper will show results for another class of transparent conductive oxides, based on zinc oxide. Large area deposition was introduced in the 1980s for Ag-based low emissive coatings (low-

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E) in energy efficient glazing [1].
Reactive DC sputtering is still today used
for these dielectric coatings in
architectural glazing [2, 3].

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