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Structural, Optical and Electronic Properties of Photocatalysts Containing Metal Oxide Nanostructures

Guest Editor:

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Message from the Guest Editor

The present Special Issue of *Catalysts* will focus on the key features of ZnO, TiO_2, WO_3, NiO, and copper- and tin-based oxide nanostructures in addition to the growth of such nanostructures on cellulose-based substrates and their photocatalytic activity under UV, visible, and solar radiation. The photocatalysts can be employed for photocatalytic water splitting, CO_2 reduction, and environmental remediation. The emphasis will be on the complete structural, optical, and electronic characterization of these nanostructures and the produced photocatalytic paper, closely linked to the final photocatalytic activity, with an overview on recent advances in the field. Also of interest to this Special Issue is the growth of metal oxides using chemical synthesis routes in which their environmentally friendly and low-cost characteristics are maintained.