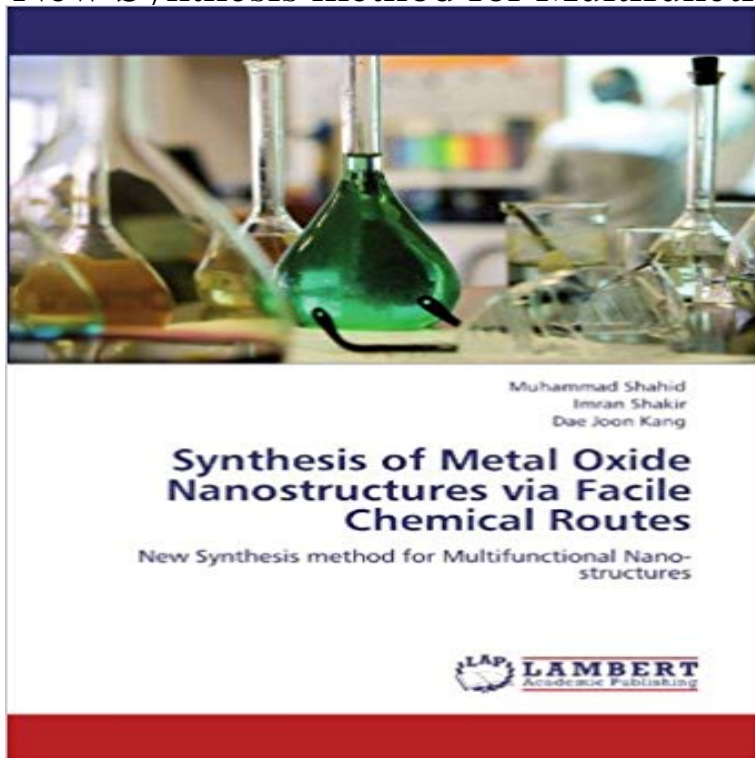


Synthesis of Metal Oxide Nanostructures via Facile Chemical Routes: New Synthesis method for Multifunctional Nano-structures



New chemical synthetic route for the fabrication of metal oxide nanostructures and their structural, optical, electrical and electrochemical properties are presented. Chemical solution deposition method was used to control the phase and crystallinity by varying the growth temperature and time. Detailed characterizations of the crystal structure, chemical composition, and morphology of the as-synthesized products were carried out using adequate techniques. The mechanism governing the direct growth of oxide nanostructures on conducting and insulating substrates is studied. Field emission, electrochemical and photocatalytic properties of as-synthesized nanostructures are described in this work. This study reveals the excellent photocatalytic, electrochemical and field emission properties of vanadates nanowires with fairly low turn-on field and high current emission capability.

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