

Low Temperature Synthesized Nanostructured Metal-Oxide Complexes for Functional Electronic Devices

Disclosure Number

201302995

Technology Summary

The present invention comprises a fundamentally new approach for producing highly crystalline nanostructured Zn-oxide-complexes with well-controlled particle-size and distribution for novel low-cost electronic applications. The NanoFermentation (TM) process works at process temperatures below 100 °C using familiar, mature industrial equipment and straightforward fermentation practice. By making tailored nanomaterials with novel properties and functionalities in economic quantities, the process opens up the possibility of integrating high temperature materials into low temperature electronics; while the particle size control on the nanoscale offers potentially new nanotechnology applications.

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