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Module 2-Synthesis of Nanopowders:
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Sol Gel method for nano metal oxide synthesis
Synthesis of nanomaterials by Physical and Chemical Methods
Solgel 1 - Part 1 (Updated!)
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This process can be summarized in six steps: (1) the formation of a stable metal precursor solution referred to as “sol”; (2) the formation of a “gel” through a polycondensation reaction; (3) the aging of the gel for hours or days, resulting in the expulsion of the solvent, i.e., Ostwald ripening, and the formation of a solid mass; (4) the drying of the gel of any liquids; (5) dehydration and surface stabilization; and (6) heat treatment of the gels at high temperatures to generate ...

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