Highly Homogeneous Nitrogen Doped Titania Nanomaterials: Synthesis and Characterization

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Abstract

A series of nitrogen doped titania nanomaterials were synthesized via sol-gel method by using tetraethyl ammonium hydroxide as N source. N doping into TiO2 was confirmed via XRD and FTIR analyses. Change in surface morphology after N doping was detected by FESEM. Results of EDX mapping analysis indicated homogeneous distribution of N dopants.