

Nb-doped TiO₂ thin films deposited by spray pyrolysis method

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R�sum� en anglais	Undoped TiO ₂ and Nb-doped TiO ₂ thin films have been deposited by spray pyrolysis method on ITO/glass substrates. All the as-deposited films are amorphous, as shown by X-Ray Diffraction. Under certain conditions of heat-treatment in air, the films deposited by pyrolysis became pure anatase. The hydrophilic properties of all the films were investigated, and a comparison was made as a function of the heat treatment, and as a function of Nb doping. Contact angles lower than 3 deg. have been obtained, after irradiation times specific for each film.
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