Nanocrystalline TiO$_2$ Electrodes Prepared by Water-Medium Screen Printing Technique

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Mesoporous TiO$_2$ electrodes with good performance as dye-sensitized solar cells were prepared for the first time using the water-based TiO$_2$ paste. The paste was obtained by powerful mixing of TiO$_2$ powder with cellulosic thickener, employing the ultrasonic horn and three roller grinding mill.