

**SYNTHESIS OF NOVEL PLASMON ACTIVATED METAL  
OXIDE - TiO<sub>2</sub> NANOSTRUCTURE COMPOSITES AND  
STUDY OF THEIR EFFICIENCY AS ADEPT PHOTOANODE  
SYSTEMS IN DYE SENSITIZED SOLAR CELLS**

**THESIS**

**Submitted to**

**UNIVERSITY OF MADRAS**

*in partial fulfillment of the requirements for  
the award of the degree of*

**DOCTOR OF PHILOSOPHY**

**in  
PHYSICS**

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**APRIL 2017**