

**STRUCTURAL AND PHOTOLUMINESCENCE PROPERTIES OF  
Eu, Tb, Dy AND Sm IONS DOPED Zn<sub>2</sub>TiO<sub>4</sub> NANOPHOSPHORS FOR  
DISPLAY APPLICATIONS**

THESIS SUBMITTED TO BHARATHIAR UNIVERSITY IN PARTIAL FULFILLMENT  
OF THE REQUIREMENTS FOR THE DEGREE OF **DOCTOR OF PHILOSOPHY IN  
PHYSICS**

By

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