

# ABSTRACT

## OPTICAL CHARACTERIZATION OF Ag NANOPARTICLES AND AIQ<sub>3</sub> COMPOSITE SYSTEMS FOR ORGANIC SEMICONDUCTORS

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There is a huge interest on the metal nanoparticle-organic semiconductor composite systems and their application in solar cell. Idea is to enhance the quantum efficiency of the transition in organic semiconductor by coupling with Plasmon resonance in metal nanoparticle. Synthesis and characterization of silver nanoparticle and aluminium hydroxyquinillie (AIQ<sub>3</sub>) composite systems was done and the optical properties were observed. Different optical characterization techniques were used like absorption spectroscopy and fluorescence spectroscopy.

[The following work was carried out the School of Physical Sciences, JAWAHARLAL NEHRU UNIVERSITY, NEW DELHI under the guidance of Dr. Subhasis Ghosh.]

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