

## Simulation and Characterization of Organic Light Emitting Diodes and Organic Photovoltaics Using Physics Based Tool

**Authors :** T. A. Shahul Hameed, P. Predeep, Anju Iqbal, M. R. Baiju

**Abstract :** Research and development in organic photovoltaic cells and Organic Light Emitting Diodes have gained wider acceptance due to the advent of many advanced techniques to enhance the efficiency and operational hours. Here we report our work on design, simulation and characterization of the bulk heterojunction organic photo cell and polymer light emitting diodes in different layer configurations using ATLAS, a licensed device simulation tool. Bulk heterojunction and multilayer devices were simulated for comparing their performance parameters.

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