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## Conductivity studies of Cu nanoparticles and dyes incorporated in both

Electron and hole transport layers of polymer solar cells have been modified by adding Cu nanoparticles and natural dyes. Hall measurements were used to study the conductivity of different layers on ITO. The results shows improvement conductivity of the hole transport layer, giving a value closer to that of other well known polymers for applications in solar cell.

**Apply to be considered for a student award (Yes / No)?**

YES

**Level for award (Hons, MSc, PhD, N/A)?**

PhD

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