

Scientific Area: Basic Sciences and Enabling Technologies

GROUP:

Organic Electronics

Site: Lisbon

Group Leader: Luís Alcácer

Researchers with PhD: 5 permanent staff; 4 postdocs

Running PhD Theses: 6,

Finished in the period 2007-2011: 3

Running MSc Theses: 3,

Finished in the period 2007-2011: 8

Current research topics:

- Organic photovoltaics (OPVs).
- Organic non-volatile memories.
- Biocellulose for Printed Organic Electronics.
- Unimolecular devices (e.g. molecular wires).
- Organic/polymeric light-emitting diodes (OLEDs/PLEDs).
- Conductive films of donor-acceptor compounds electrochemically grown.
- Molecular conductors with conductivity and spin-transitions.

Running projects:

- NOVO: "Non volatile polymer memories for flexible electronics"; FCT. End: 12-2014.
- BC: "Biocellulose for Printed Organic Electronics"; FCT/PTDC. End: 01-02-2013.
- NANOPEPS: "Micro- and Nanopatterning of cross-linkable electro-active polymers by spin-coating"; FCT/PTDC. End: 01-12-2013.
- NHyMat: "SolarNHyMat-Nanostructured Hybrid Materials for Solar Cells"; FCT/PTDC. End: 01-12-2012.
- MCLEDs: "New Luminescent Metal Complexes for Light-Emitting Diodes" FCT/PTDC. End: 1/2/2012.
- Dendrímeros: "Just in Time Dendrimers"; FCT/PTDC. End: 01-06-2012.

Number of publications 2007-2011:

- Books: 1 (on Computational Quantum Chemistry)
- Journals: 53
- Conferences: 38

Other indicators:

- Frequent refereeing of papers and project evaluation (national and EU)

SWOT analysis:

- Strengths: strong materials/devices correlations know-how.
- Weaknesses: no access to clean room; heavy teaching load for university staff (9-12H).
- Opportunities: non-established technology.
- Threats: limited and uncertain funding.