Short Curriculum Vitae

1. Identification

***Name*:** *Ana Maria de Matos Charas*; *E-mail: ana.charas@lx.it.pt*
ORCID ID: *0000-0001-6717-6826*

Principal Researcher at Instituto de Telecomunicações, Organic Electronics Group, Lisbon, Portugal, 2016 until present.
Main interests: Semiconducting and conducting polymers, organic optoelectronic devices including organic photovoltaics, energy materials, OLEDs, sensors, nanotructuring.

2. Academic Qualification

PhD in Chemical Engineering at Instituto Superior Técnico, Universidade Técnica de Lisboa, 2002.
MSc in Materials Engineering at Instituto Superior Técnico, Universidade Técnica de Lisboa, 1999.
Degree in Chemical Engineering, Applied Chemistry, by Instituto Superior Técnico, Universidade Técnica de Lisboa, 1994.

3. Research

3.1. Articles in international journals & Articles/chapters in books

Author of 65 papers in international journals with referee. H index = 21; Author of 2 book chapters.

3.2. Articles in International conference proceedings & Communications

Author of 14 papers in international conferences proceedings; Presenting author of 25 oral communications in international conferences.

4. Teaching

- 2012-2014 "Biosensors and Nanotechnology", MSc. in Biomedical Enginnering, Univ. Católica de Lisboa.
- 1995-1996 Química-Física I, Instituto Superior Técnico, Lisboa, Portugal

5. Participation in research projects as coordinator

- "SupraSol: Supramolecular assemblies for efficient, stable, and sustainable organic solar cells", FCT-Portugal, PTDC/QUI-QOR/28365/2017, 1/7/2018-31/6/2021.
- "GreenSol: Materials for green processing and their integration in low cost organic photovoltaic cells". Instituto de Telecomunicações/FCT. 1/4/2016-31/4/2018.
- "LIQ-OPVs: Towards very efficient organic photovoltaic cells through utilizing liquid crystal phases as electron-acceptors. FCT-Portugal, PTDC/CTM-NAN/1471/2012, 1/4/2013-31/4/2015.
- "NanoPEPS: Micro- and nanopatterning of cross-linkable electro-active polymers by spin coating". FCT - Portugal, contract no PTDC/CTM-NAN/111263/2009, 1/1/2011-31/12/2013.
- "ArcoCell: Specially Designed Materials and Architectures for Organic Photovoltaic Cells" Funding Entity: FCT –Portugal, PTDC/CTM/64127/2006, 1/1/2008- 31/12/2010.

+ participation in 11 projects as team member

6. Supervision

PhDs

Concluded:

- "New materials for organic solar concentrators and photovoltaic cells", Graça Brotas, Instituto Superior Técnico. July, 2015. In co-supervision with Prof. Jorge Morgado (IST).
- "High efficiency polymer-based photovoltaics through morphology". Joana Farinhas, Instituto Superior Técnico, May, 2015. In co-supervision with Prof. Jorge Morgado (IST).
- "Electron-accepting Materials for Cost-effective and Environmentally Friendly Organic Photovoltaics", Cristiana Costa, Instituto de Telecomunicações/Instituto Superior Técnico. September, 2018. In co-supervision with Prof. Adelino Galvão (IST).

In course:

"Thiophene-based building blocks for functional materials in electronic devices", Mariana Velho, Doutoramento em Química, IST. In co-supervision with Prof Dulce Belo (IST).

MSc

- "Control of polymer film morphology with potential applications in photovoltaic cells", Joana Farinhas, Instituto Superior de Engenharia de Lisboa (ISEL), Host institution: Instituto de Telecomunicações. Concluded in March 2010. In co-supervision with Prof. Manuel Matos (ISEL).
- "Synthesis of new cross-linkable conjugated polymers and applications in organic photovoltaic cells", Soraia Lourenço, Instituto Superior de Engenharia de Lisboa, Host institution: Instituto de Telecomunicações. Concluded in February 2013. In co-supervision with Prof. Manuel Matos (ISEL).
- "New cross-linkable organic compounds for applications in photovoltaic cells, Cristiana Costa, Instituto Superior de Engenharia de Lisboa Engenharia de Lisboa and Instituto de Telecomunicações. In co-supervision with Dr. Q. Ferreira (IT) and Prof. C. Calado (ISEL). (ISEL). Host institution: Instituto de Telecomunicações. December 2014. In co-supervision with Prof. Manuel Matos (ISEL).
- "Filmes nanoestruturados de grafeno para a libertação controlada de fármacos oculares", Helena Morais, Msc in Eng. Biomédica, Instituto Superior de

+ 3 Pos-doc researchers, 5 MSc and 13 young researchers.

7. Editorial Experience

- Guest Editor of Special Issue in "Materials" (MDPI) : "From Macromolecules to Materials for Optoelectronic Devices" (Sep-2017)
- Guest Editor of Special Issue in "Polymers" (MDPI) "Conducting Polymers for Advanced Applications" (April, 2020).

8. Membership of scientific societies

- Member of Board of Directors of Sociedade Portuguesa de Química (since Sep-2017).

9. Membership of Scientific Committee or organizer of scientific meetings/conferences

- Chair of "Industry Day on Printed Electronics and Solar Cells", Lisbon, 7 April, 2017, COST Action "Stable Next-Generation Photovoltaics: Unraveling degradation mechanisms of Organic Solar Cells by complementary characterization techniques", (COST MP 1307 StableNextSol)
- Technical Programme committee of: Conference on Telecommunications – ConfTele, Lisbon, 2017.
- Scientific committee of: International Conference on Computational Intelligence Methods for Bioinformatics and Biostatistics CIBB, 2017.