



instituto de
telecomunicações

Organic Electronics Group

Scientific Productivity 2007-2011

Theses and Publications

Scientific Productivity 2007-2011

Summary

Running PhD Theses: 6, Finished in the period 2007-2011: 3

Running MSc Theses: 3, Finished in the period 2007-2011: 8

Number of publications 2007-2011:

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

Selection of the 5 most cited journal papers 2007 - 2011

1. M. Fernandes; V. Bermudez; R. A. Sá Ferreira; Carlos; Charas, A.; Morgado, J.; M. Silva; M. Smith; "Highly photostable luminescent poly(ϵ -caprolactone)siloxane biohybrids doped with europium complexes", *Chemistry of Materials*, Vol. 19, No. 16, pp. 3892 - 3901, August, 2007. [IF: 6.40](#). [N° of citations: 51](#)
2. V. Bonifácio; Morgado, J.; U. Scherf; "Polyfluorenes with On-chain dibenzoborole units - Synthesis and Anion-induced photoluminescence quenching", *Journal of Polymer Science: Part A: Polymer Chemistry*, Vol. 46, No. 8, pp. 2878 - 2883, April, 2008. [IF: 3.894](#). [N° of citations: 29](#)
3. R. Paolo; J. Melo; J. Pina; H. Burrows; Morgado, J.; A. Maçanita; "Conformational relaxation of p-phenylenevinylene trimers in solution studied by picosecond time-resolved fluorescence ", *ChemPhysChem*, Vol. 8, No. 18, pp. 2657 - 2664, December, 2007. [IF: 3.339](#). [N° of citations: 28](#)
4. W. C. T. Tsoi; Charas, A.; A. J. C. Cadby; G. K. Khalil; A. M. A. Adawi; A. I. Iraqi; B. H. Hunt; Morgado, J.; D. L. Lidzey; "Observation of the beta-phase in two short-chain oligofluorenes", *Advanced Functional Materials*, Vol. 18, No. 2, pp. 600 - 606, February, 2008. [IF: 8.49](#). [N° of citations: 18](#)
5. M. Fernandes; S.S.N. Nobre; M. Gonçalves; [Charas, A.](#); [Morgado, J.](#); R. A. Sá Ferreira; L. D. Carlos; V. Bermudez; "Dual role of a di-urethanesil hybrid doped with europium -diketonate complexes containing either water ligands or a bulky chelating ligand ", *Journal of Materials Chemistry*, Vol. 19, No. 6, pp. 733 - 742, January, 2009. [IF: 5.1](#). [N° of citations: 12](#).

Scientific Productivity 2007-2011

Supervision of THESES

PhD

Finished in the period [3]

1. "Carrier Injection and Transport in Organic Optoelectronic Devices", PhD, Luis Filipe Ferreira Morgado, 12-2011, Universidade de Trás-os-Montes e Alto Douro [LA]
2. "Biosensors for environmental analysis", PhD, Nelson Alberto Frade da Silva, 12-2008, Instituto Superior de Engenharia de Lisboa, ISEL [MM]
3. "Synthesis and structural and magnetic characterisation of molecular magnets derived from N, N'-diciano-p-benzoquinonadiimine", PhD, Rui Miguel Martins de Azevedo Meira, Instituto Superior Técnico, July de 2008. [co-supervisor: RTH, Supervisor: Vasco Pires Silva da Gama, ITN]

Running [6]

1. High efficiency polymer-based photovoltaics through morphology control, PhD, Joana Tavares Farinhas, Instituto Superior Técnico, 4-2014 [JM]
2. New materials for organic solar concentrators and photovoltaic cells, PhD, Maria da Graça Laranjo Mendes Brotas, Instituto Superior Técnico, 3-201 [JM]
3. Non volatile resistive memories, PhD, Tânia Isabel de Almeida Braz, Instituto Superior Técnico, 4-2012 [JM]
4. Plastic Optical Fibers doped with conjugated polymers showing gain, Plastic Optical Fibers doped with conjugated polymers showing gain, PhD, Ana Luísa Mendonça, Instituto Superior Técnico, 1-2012, [JM]
5. "New bisdithiolenes complexes based on thiophenic ligands for magnetic and conducting materials", Ana Isabel Soares Neves, Instituto Superior Técnico, 2012, [RTH].
6. "Molecular Conductors with switching and bistability properties", Bruno José Cardoso Vieira, Instituto Superior Técnico, 2013 [RTH].

Msc

Finished in the period [8]

1. Coordenação de bis-ditíolatos de Fe(III), MSc, Ana Isabel Soares das Neves, 1-2008, Instituto Superior Técnico [JM]
2. Morphology and Spectroscopy studies of Thin-films of P3HT:PCBM blend, MSc, Ana Sofia Anselmo, 6-2007, Instituto Superior Técnico [JM]
3. Aplicações de compostos orgânicos como camada activa em células fotovoltaicas, MSc, Joana Farinhas, Instituto Superior de Engenharia de Lisboa, ISEL 1-2010 [AC & MM]
4. "The influence of metallic ions oxidation states and the pH-value on the haze formation in beer", Patrícia de Sousa Diniz, Instituto Superior Técnico, 6-2010 (IST: RTH; TU Berlin: Frank-Jurgen Methner)
5. Synthesis and Characterisation of Materials for Organic Photovoltaic Cells, Maria da Graça Laranjo Mendes Brotas, 11-2008, Instituto Superior Técnico [JM]
6. Valence Tautomeric Thin Films, Sérgio António Pires Mendes, 12-2008, Instituto Superior Técnico [JM]
7. PLASTIC, António de Matos Tavares Proença, 07-2010, Instituto Superior Técnico [JM e Nuno Horta]
8. Microfabricação de um dispositivo de Free Flow Electrophoresis com Tecnologia Low Temperature Co-Fired Ceramics, Pedro Nuno Tavares Couceiro, 12-2008, Instituto Superior Técnico [JM]

Running [3]

1. Organic light-emitting diodes on biocellulose composites, MSc, Ana Coelho , 11-2012, Instituto Superior Técnico [JM]
2. New Cross-linkable Donor Polymers for Nanostructured OPV cells, MSc, Soraia Lourenço, 10-2012 [JM]
3. Ionic small molecular weight solar cells, MSc, Stefano Virgilio, 11-2012, Instituto Superior Técnico [JM e Henk Bolink from University of Valência]

Main International Colaborations

- Sir Richard Friend, Jenny Clark, Cavendish Laboratory, U. Cambridge
- Donal Bradley, Imperial College, London
- Dago de Leeuw, Philips - Eindhoven
- Franco Cacialli, U. College London
- David Lidzey, U. Sheffield
- Andy Monkman, U. Durham
- Ulrich Scherff, U. Wuppertal
- Guglielmo Lanzani, IIT e Politecnico di Milano
- Sigurd Schrader, U. Wildau
- David Ginger, U. Washington
- Larry Lüer, Juan Cabanillas-Gonzalez, Instituto Madrileño de Estudios Avanzados(IMDEA), Madrid
- James Brooks - National High Magnetic Field Laboratory, Florida, USA

Publications

Books [1]

Alcácer, L.A.; *Introdução à Química Quântica Computacional*, IST Press, Lisboa, 2007.

Papers in Journals [53]

List of journal papers 2007-2011

2011

1. Farinhas, J.; Ferreira, Q.; R. Paolo; Alcácer, L.A.; Morgado, J.; Charas, A.; "Nanostructured donor/acceptor interfaces in photovoltaic cells using columnar-grain films of a cross-linked poly(fluorene-alt-bithiophene)", *Journal of Materials Chemistry*, Vol. 21, No. 33, pp. 12511 - 12519, September, 2011. IF: 5.1
2. R. I. S. Romão; Ferreira, Q.; Morgado, J.; J. Martinho; A. M. P. S. Gonçalves da Silva; "Nanopatterning in Langmuir-Blodgett monolayers of a thermoresponsive double hydrophilic block copolymer studied by AFM", *Journal of Nanoscience and Nanotechnology*, Vol. 11, No. 4, pp. 3151 - 3161, April, 2011. IF: 2010 = 5.071
3. Green, E. L.; Brooks, J. S.); Kuhns, P. L.; Reyes, A. P.; Lumata, L. L.; Almeida, M; Matos, M. J.; Henriques, R. T.; Wright, J. A.; Brown, S. E.; "Interaction of magnetic field-dependent Peierls and spin-Peierls ground states in (Per)(2)[Pt(mnt)(2)]", *Physical Review B*, Vol. 84, No. 12, Article Number: 121101, September 2011. IF: 3.772
4. Ferreira, Q.; Alcácer, L.A.; Morgado, J.; "Stepwise preparation and characterization of molecular wires made of zinc octaethylporphyrin complexes bridged by 4,4-bipyridine on HOPG", *Nanotechnology*, Vol. 22, No. 43, pp. 435604 - 435610, October, 2011. IF=3.652
5. G. K. Khalil; A. M. A. Adawi; B. Robinson; A. J. C. Cadby; W. C. T. Tsoi; J-S. Kim; Charas, A.; Morgado, J.; D. L. Lidzey; "Spectroscopy and Single-Molecule Emission of a Fluorene-Terthiophene Oligomer", *Journal of Physical Chemistry B*, Vol. 115, No. 42, pp. 12028 - 12035, October, 2011. IF: 3.603

6. Charas, A.; Mendonça, A.; J. C. Clark; L. B. Bazzana; A. N. Nocivelli; G. L. Lanzani; Morgado, J.; "Stimulated Emission and Ultrafast Optical Switching in a Ter(9,9-spirobifluorene)-co-methylmethacrylate Copolymer", *Journal of Polymer Science Part B: Polymer Physics*, Vol. 49, No. 1, pp. 52 - 61, January, 2011. IF 2010 : 1.298

2010

7. Ferreira, Q. ; G. Bernardo ; Charas, A.; Alcácer, L.A.; Morgado, J.; "Polymer Light-Emitting Diode Interlayers' Formation Studied by Current-Sensing Atomic Force Microscopy and Scaling Laws", *Journal of Physical Chemistry C*, Vol. 114, No. 1, pp. 572 - 579, January, 2010. IF: 4.524
8. C. Ribeiro; L. Santo; P. Brogueira; G. L. Lavareda; C. N. Carvalho; A. Amaral; Morgado, J.; U. Scherf; V. Bonifácio; "Ultrasensitive microchip sensor based on boron-containing polyfluorene nanofilms", *Biosensors and Bioelectronics*, Vol. 26, No. 4, pp. 1662 - 1665, (2010). IF: 5.397
9. R. I. S. Romão; Ferreira, Q. ; Morgado, J.; J. M. G. Martinho; A. M. P. S. Gonçalves da Silva; "Microphase Separation in Mixed Monolayers of DPPG with a Double Hydrophilic Block Copolymer at the Air-Water Interface: A BAM, LSCFM, and AFM Study", *Langmuir*, Vol. 26, No. 22, pp. 16625 - 17780, November, 2010. IF: 4.269
10. D. Credginton; O. Fenwick; Charas, A.; Morgado, J.; K. Suhling; F. Cacialli; "High-Resolution Scanning Near-Field Optical Lithography of Conjugated Polymers", *Advanced Functional Materials*, Vol. 20, No. 17, pp. 2842 - 2847, September, 2010. IF: 6.99
11. G. Bernardo ; Ferreira, Q. ; R. Paolo; Charas, A.; Morgado, J.; "Synergistic effect of the efficiency of polymer light-emitting diodes upon blending of two green-emitting polymers", *Journal of Appl. Physics*, Vol. 108, No. 1, pp. 014503-1 - 014503-8, July, 2010. IF: 2.064
12. V. Bonifácio; Morgado, J.; U. Scherf; "Synthesis of thiosulfonate-bridged bromofluorene endcapping reagents", *Synlett*, Vol. na, No. 9, pp. 1333 - 1336, June, 2010. IF: 2.447
13. Charas, A.; Mendonça, A.; J. C. Clark; J. C.-G. Gonzalez; L. B. Bazzana; A. N. Nocivelli; G. L. Lanzani; Morgado, J.; "Gain and ultrafast optical switching in PMMA optical fibers and films doped with luminescent conjugated polymers and oligomers", *Frontiers of Optoelectronics in China*, Vol. 3, No. 1, pp. 45 - 53, March, 2010.
14. G. Bernardo; Charas, A.; Morgado, J.; "Luminescence properties of poly(9,9-dioctylfluorene)/polyvinylcarbazole blends: Role of composition on emission colour stability and electroluminescence efficiency", *J. Phys. & Chem. Solids*, Vol. 71, No. 3, pp. 340(2010.) IF: 1.381
15. R. F. R. Rodrigues; Charas, A.; Morgado, J.; A. Maçanita; "Self-Organization and Excited-State Dynamics of a Fluorene-Bithiophene Copolymer (F8T2) in Solution", *Macromolecules*, Vol. 43, No. 2, pp. 765 - 771, January, 2010. IF: 4.837
16. N. D. Drichko; Matos, M.; Henriques, R. T.; M. Almeida; "Infrared investigations or the one-dimensional organic conductors (perylene)₂M(mnt)₂, M=Au, Pt", *European Physical Journal B*, Vol. 78, No. 3, pp. 283 - 289, December, 2010. IF: 1.575

2009

17. Charas, A.; Ferreira, Q.; Farinhas, J.; Matos, M.; Alcácer, L.A.; Morgado, J.; "Insoluble Patterns of Cross-Linkable Conjugated Polymers from Blend Demixing in Spin Cast Films", *Macromolecules*, Vol. 42, No. , pp. 7903 - 7912, October, 2009. IF: 4.837
18. L. Morgado; Alcácer, L.A.; Morgado, J.; "Polymer light-emitting diodes efficiency dependence on bipolar charge traps concentration", *Research Letters in Materials Science*, Vol. 2009, No. 503042, pp. 1 - 4, July, 2009.
19. Matos, M.; "Biosensor for acrylamide based on an ion-selective electrode using whole cells of *Pseudomonas aeruginosa* containing amidase activity", *Biocatalysis and Biotransformation*, Vol. 27, No. 2, pp. 143 - 151, March, 2009
20. G. Bernardo ; G. B. Gonçalves; P. B. Barquinha; Ferreira, Q.; L.P. Pereira; Charas, A.; Morgado,

- J.; R. M. Martins; E. F. Fortunato; "Polymer light-emitting diodes with amorphous indium-zinc oxide anodes deposited at room temperature", *Synthetic Metals*, Vol. 159, No. 11, pp. 1112 (2009).
21. R. Paolo; H. Burrows; Morgado, J.; A. Maçanita; "Photodynamics of a PV Trimer in High-Viscosity Solvents and in PMMA Films: A New Insight into Energy Transfer versus Conformational Relaxation in Conjugated Polymers", *ChemPhysChem*, Vol. 10, No. 2, 448 (2009).
22. M. Fernandes; S.S.N. Nobre; M. Gonçalves; Charas, A.; Morgado, J.; R. A. Sá Ferreira; L. D. Carlos; V. Bermudez; "Dual role of a di-urethanesil hybrid doped with europium -diketonate complexes containing either water ligands or a bulky chelating ligand ", *Journal of Materials Chemistry*, Vol. 19, No. 6, pp. 733 - 742, January, 2009.
23. D. Graf; J. S. Brooks; E. Choi; M. Almeida; Henriques, R. T.; J. C. Dias; S. Barroso; "Geometrical and orbital effects in a quasi-one-dimensional conductor ", *Physical Review B*, Vol. 80, No. 15, pp. 155104 - 155104, October, 2009.
24. S. Rabaça; A. Cerdeira; L. Pereira; M. Fourmigué; Henriques, R. T.; M. Almeida; "Complexes based on asymmetrically substituted pyridine-dithiolene ligands [M(4-pedt)(2)] (M = Au, Cu, Ni; 4-pedt = 1-(pyridin-4-yl)-ethylene-1,2-dithiolate): Synthesis, structure and physical properties", *Polyhedron*, Vol. 28, No. 6, pp. 1069 - 1078, April, 2009.
25. J. S. Brooks; S. Rabaça; I. C. Santos; Henriques, R. T.; M. Almeida; "Pyridine-Functionalised (Vinylenedithio)tetrathiafulvalene (VDT-TTF) Derivatives and Their Dithiolene Analogues", *European Journal of Inorganic Chemistry*, Vol. 2009, No. 21, pp. 3084 - 3093, April, 2009. IF:
26. J. Pessoa; Henriques, R. T.; F. Avecilla; I. Correia; "Synthesis, Characterization, and Application of Vanadium-Salan Complexes in Oxygen Transfer Reactions", *Inorganic Chemistry*, Vol. 48, No. 8, pp. 3542 - 3561, April, 2009.

2008

27. Clark J., Bazzana L. Bradley, Donal D. C. Cabanillas-Gonzalez, Juan Lanzani, Guglielmo (Lidzey, David G. Morgado, J. Nocivelli, A. Tsoi, Wing C. Virgili, T Xia, R. "Blue polymer optical fiber amplifiers based on conjugated fluorene oligomers", *JOURNAL OF NANOPHOTONICS* Vol.: 2 Article Number: 023504 DOI: 10.1117/1.2902341; 2008; n° of citations: 13
28. Charas, A.; H. Alves; J. Martinho; Alcácer, L.A.; O. Fenwick; F. Cacialli; Morgado, J.; "Photoacid cross-linkable polyfluorenes for optoelectronics applications", *Synthetic Metals*, Vol. 158, No. , pp. 643 - 653, September, 2008.
29. Charas, A.; Alcácer, L.A.; A. P. Pimentel; J. P. C. Conde; Morgado, J.; "Observation of field-effect in a cross-linked polyfluorene semiconductor", *Chemical Physics Letters*, Vol. 455, No. 4-6, pp. 189 - 191, April, 2008.
30. G. Bernardo ; Charas, A.; Alcácer, L.A.; Morgado, J.; "Spin cast thin polymer interlayers in polymer light-emitting diodes: Thickness control through use of cross-linkable polymers", *Journal of Appl. Physics*, Vol. 103, No. 8, pp. 084510 - 7 pages, April, 2008. IF:
31. G. Bernardo ; M.A. Esteves; A. M. Guerreiro; B.G. Gigante; Morgado, J.; "Luminescence properties of bipolar stylobenamine-quinoxalines", *Optical Materials* , Vol. 31, No. 2, pp. 320 - 327, October, 2008.
32. Morgado, J.; Mendonça, A.; Charas, A.; J. C. Clark; G. L. Lanzani; L. B. Bazzana; A. N. Nocivelli; "Polyfluorene-PMMA copolymers for plastic optical fibers with gain", *Organic Optoelectronics and Photonics III* , Vol. 6999, No. , pp. M69990 - M69990, October, 2008.
33. V. Bonifácio; Morgado, J.; U. Scherf; "Polyfluorenes with On-chain dibenzoborole units - Synthesis and Anion-induced photoluminescence quenching", *Journal of Polymer Science: Part A: Polymer Chemistry*, Vol. 46, No. 8, pp. 2878 - 2883, April, 2008.
34. W. C. T. Tsoi; Charas, A.; A. J. C. Cadby; G. K. Khalil; A. M. A. Adawi; A. I. Iraqi; B. H. Hunt; Morgado, J.; D. L. Lidzey; "Observation of the beta-phase in two short-chain oligofluorenes", *Advanced Functional Materials*, Vol. 18, No. 2, pp. 600 - 606, February, 2008.

35. M. Fernandes; M. Gonçalves; V. Bermudez; R. A. Sá Ferreira; L. D. Carlos; Charas, A.; Morgado, J.; "Optical material composed of a di-urethanesil host hybrid and a europium complex", *J. Alloys Compd.*, Vol. 451, No. 1-2, pp. 201 - 205, February, 2008.
36. M. J. F. Framptom; G. S. Sforazzini; S. B. Brovelli; G. Latini; E. T. Townsend; C. C. W. Williams; Charas, A.; L. Z. Zalewski; N. S. K. Kaka; M. S. Sirish; "Synthesis and Optoelectronic Properties of Nonpolar Polyrotaxane Insulated Molecular Wires with High Solubility in Organic Solvents ", *Advanced Functional Materials*, Vol. 18, No. , pp. 1 - 10, October, 2008.
37. J. Musfeldt; M. Mas-Torrent; C. Rovira; J. C. Dias; Henriques, R. T.; M. Almeida; "Infrared investigation of the charge ordering pattern in the organic spin ladder candidate (DTTTF)(2)Cu(mnt)(2)", *Solid State Communications*, Vol. 10, No. 12, pp. 1740 - 1744, December, 2008.
38. A. Cerdeira; D. Simão; I. C. Santos; A. Machado; J. Waerenborgh; Henriques, R.T.; M. Almeida; "(n-Bu₄N)[Fe(cbdt)₂]: Synthesis, crystal structure and magnetic characterisation of a new FE-III bisdithiolene complex", *Inorgan. Chim. Acta*, Vol. 361, No.14-15, pp.3836-3841, October, 2008.
39. S. Carabineiro; R. Bellabarba; P. Gomes; S. Pascu; L. F. Veiros; C. Freire; L. Pereira; Henriques, R. T.; M. Oliveira; J. Warren; "Synthesis, structure and magnetic behavior of five-coordinate bis(iminopyrrolyl) complexes of cobalt(II) containing PMe₃ and THF ligands", *Inorganic Chemistry*, Vol. 47, No. 19, pp. 8896 - 8911, October, 2008.
40. S. Rabaça; M Duarte; L. Pereira; M. Fourmigué; Henriques, R. T.; M. Almeida; "Thio-azo proligands based on 5,6-derivatives-1,10-phenanthroline and their use for iron(II) complexes: Synthesis, characterization and crystal structure", *Polyhedron*, Vol.27, No.8, pp. 1999, 2008.
41. S. Carvalho; R. Delgado; V. Félix; M. Figueira; Henriques, R. T.; "Cascade dicooper architectures of a dibenzodioxatetraazamacrocyclic", *Polyhedron*, Vol. 27, No. 2, pp. 679 - 687, February, 2008.
42. - Matos, M.; "Potentiometric biosensor for acrylamide determination in wastewater using wild type amidase from *Pseudomonas aeruginosa* ", *WIT Trans. on Ecology and the Environment*, Vol. 1, No. 1, pp. 1 - 10, January, 2008.

2007

43. Morgado, J.; M. Fernandes; Charas, A.; V. Bermudez; Alcácer, L.A.; "Role of energy transfer and charge trapping on the luminescence properties of europium complexes/luminescent polymers composites", *Journal Materials Science*, Vol. 18, No. 1, pp. S271 - S275, October, 2007.
44. G. Bernardo ; Charas, A.; Alcácer, L.A.; Morgado, J.; "Improving polymer light-emitting diodes efficiency using interlayers based on cross-linkable polymers", *Applied Physics Letters*, Vol. 91, No. 6, pp. 063509-1 - 063509-3, August, 2007.
45. - Morgado, J.; Alcácer, L.A.; M.A. Esteves; B.G. Gigante; "New styrene-based arylamines with dehydroabiatic acid methyl ester moieties for organic light-emitting diodes", *Thin Solid Films*, Vol. 515, No. 19, pp. 7697 - 7700, July, 2007.
46. Morgado, J.; Alcácer, L.A.; Charas, A.; "Poly(9,9-dioctylfluorene)-based light-emitting diodes with pure b-phase emission", *Applied Physics Letters*, Vol. 90, No. 20, pp. 201110-1 (2007).
47. R. Paolo; J. Melo; J. Pina; H. Burrows; Morgado, J.; A. Maçanita; "Conformational relaxation of p-phenylenevinylene trimers in solution studied by picosecond time-resolved fluorescence ", *ChemPhysChem*, Vol. 8, No. 18, pp. 2657 - 2664, December, 2007.
48. M. Fernandes; V. Bermudez; R. A. Sá Ferreira; Carlos; Charas, A.; Morgado, J.; M. Silva; M. Smith; "Highly photostable luminescent poly(ϵ -caprolactone)siloxane biohybrids doped with europium complexes", *Chemical Mater*, Vol. 19, No. 16, pp. 3892 - 3901, August, 2007. IF:
49. S.F. Fratiloiu; S. Fonseca; F. Gozema; H. Burrows; M. Costa; Charas, A.; Morgado, J.; L. Siebbeles; "Opto-electronic properties of fluorene-based derivatives as precursors for light-emitting diodes", *Journal of Physical Chemistry C*, Vol. 111, No. 15, pp. 5812 (2007).
50. P. Gomes; L. F. Veiros; L. Pereira; Henriques, R. T.; "Bis(ketopyrrolyl) complexes of Co(II)

- stabilised by trimethylphosphine ligands", *DALTON Trans.*, Vol. 46, No. 10, pp. 5460 - 5470, October, 2007.
51. J. Nunes; M. Figueira; D. Belo; I. C. Santos; E. B. Lopes; Henriques, R. T.; J. Gancedo; J. Veciana; C. Rovira; M. Almeida; "Transition metal bis-dithiolene complexes based on extended ligands with tetrathiafulvalene and thiophene moieties: New single-component molecular moieties", *Chemistry A European Journal*, Vol. 13, No. 35, pp. 9841 - 9849, August, 2007.
 52. D. Graf; J. S. Brooks; E. Choi; M. Almeida; Henriques, R. T.; J. C. Dias; J. Dias; "Quantum interference in the quasi-one-dimensional organic conductor $\text{Per}_2\text{Au}(\text{mnt})_2$ ", *Physical Review B*, Vol. 75, No. 24, pp. 245101-1 - 245101-9, June, 2007.
 53. P. Gomes; L. Pereira; L. F. Veiros; M. T. Duarte; Henriques, R. T.; "Synthesis and characterization of tetrahedral and square planar bis(iminopyrrolyl) complexes of cobalt(II)", *Inorganic Chemistry*, Vol. 46, No. 17, pp. 6880 - 6890, May, 2007.

Papers in Conference Proceedings [38]

1. Ferreira, Q. ; Alcácer, L.A.; Morgado, J.; "Fabrico de fios moleculares por self-assembly controlado por STM", *Proc Encontro Nacional da SPQ, Braga, Portugal*, Vol. na, pp. na - na, July, 2011.
2. Pereira, A. T. P.; Ferreira, Q. ; E. Pecoraro; C. S. R. F. Ferreira; S. C. M. F. Fernandes; C. P. N. Neto; A. J. D. Silvestre Silvestre; Morgado, J.; Alcácer, L.A.; "Inkjet-printed organic field-effect transistors using bacterial cellulose materials", *Proc International Symp. on Flexible Organic Electronics - IS-FOE09, Thessaloniki, Greece*, Vol. , pp. - , July, 2011.
3. Ferreira, Q. ; Alcácer, L.A.; Morgado, J.; "Zinc-octaethylporphyrin/bipyridine molecular wires on HOPG", *Proc International Conf. on Materials for Advanced Technologies - ICMAT, Singapore, Singapore*, Vol. nd, pp. nd - nd, June, 2011.
4. Ferreira, Q. ; Alcácer, L.A.; Morgado, J.; "Molecular wires of zinc octaethylporphyrins and bipyridines prepared at the tetradecane/HOPG interface", *Proc International SPM usermeeting, Les Ulis, France*, Vol. nd, pp. nd - nd, May, 2011.
5. Alcácer, L.A.; Morgado, J.; Ferreira, Q. ; E. Pecoraro; "Biocellulose Based Materials for Organic Field Effect Transistors", *Proc EUROCON and CONFTELE 2011, Lisbon, Portugal*, Vol. na, pp. na - na, April, 2011.
6. Matos, M.; Ferreira, Q. ; Henriques, R. T.; Morgado, J.; M.A. Afonso; R.S. Silva; M. Almeida; "ELECTROCRYSTALLISATION UNDER MAGNETIC FIELD OF PERYLENE COMPOUNDS", *Proc Conf. of International Society of Electrochemistry - RSEQ - ISE 2011, Murcia, Spain*, Vol. , pp. - , September, 2011.
7. L. Morgado; Morgado, J.; "EFFECT OF CHARGE TRAPPING DOPANTS ON THE CURRENT AND EFFICIENCY OF POLYFLUORENE-BASED LEDS (Abstract Only)", *Proc Electronic and Related Properties of Organic Systems, Vilnius, Lithuania*, Vol. na, pp. na - na, July, 2011.
8. - Pereira, A. T. P.; Ferreira, Q. ; E. Pecoraro; C. S. R. F. Ferreira; Morgado, J.; "Inkjet printing of organic field-effect transistors using biocellulose derivative materials", *Proc Encontro Nacional da SPQ, Braga, Portugal*, Vol. n.a., pp. n.a. - n.a., July, 2011.
9. Charas, A.; Farinhas, J.; Ferreira, Q. ; R. Paolo; Morgado, J.; "Organic Photovoltaic Cells with Nanostructured Polymer Layers", *Proc Sociedade Portuguesa de Química XXII Encontro Nacional da Sociedade Portuguesa de Química - XXIENSPQ, Braga, Portugal*, Vol. , pp. - , July, 2011.
10. Farinhas, J.; Charas, A.; Ferreira, Q. ; R. Paolo; Morgado, J.; "Organic Photovoltaics with Nanostructured Interfaces Prepared from a Cross-linked Polyfluorene ", *Proc International Conf. on Materials for Advanced Technologies - ICMAT, Singapore, Singapore*, Vol. -, pp. - - -, June, 2011.
11. Charas, A.; Farinhas, J.; Ferreira, Q. ; R. Paolo; Morgado, J.; "Organic photovoltaic cells based on

structured layers of cross-linked donor polymers and fullerene", Proc European Materials Research Society (E-MRS) - Spring Meeting - E-MRS, Nice, France, Vol. , pp. - , May, 2011.

12. Farinhas, J.; Ferreira, Q. ; R. Paolo; Charas, A.; Morgado, J.; "Organic photovoltaic cells with nanostructured films of cross-linked conjugated polymers", Proc SPOF International Conference on Applications of Optics and Photonics - AOP 2011, Braga, Portugal, Vol. -, pp. - - -, May, 2011.
13. Mendonça, A.; Charas, A.; J. C. Clark; L. B. Bazzana; A. N. Nocivelli; G. L. Lanzani; Morgado, J.; "Plastic optical fibres dopants to obtain gain enlargement and ultrafast optical switching", Proc International Conf. on Applications of Optics and Photonics - AOP2011, Braga, Portugal, Vol. 1, pp. 1 - 7, May, 2011. Abstract
14. Ferreira, Q. ; Morgado, J.; "Electrical Properties of a Single Molecule", Proc Conf. on Telecommunications - ConfTele, Lisboa, Portugal, Vol. 0, pp. 0 - 0, April, 2011.
15. Farinhas, J.; Ferreira, Q. ; Charas, A.; Morgado, J.; "Organic photovoltaic cells with structured interfaces", Proc EUROCON and CONFTELE 2011, Lisbon, Portugal, Vol. -, pp. - - -, April, 2011.

2010

16. Alcácer, L.A.; Morgado, J.; "Biocellulose and Derivatives as Substrates and Dielectrics for Organic Field-Effect Transistors", Proc International Conf. on Science and Technology of Synthetic Metals - ICSM, Quioto, Japan, Vol. n.a., pp. n.a. - n.a., July, 2010.
17. Morgado, J.; Farinhas, J.; Charas, A.; O. Fenwick; F. Cacialli; Alcácer, L.A.; "Conjugated luminescent polymers bearing cross-linkable oxetane side groups as versatile materials for organic optoelectronics (abstract only)", Proc Prague Meeting on Macromolecules, Prague, Czech Republic, Vol. na, pp. na - na, July, 2010.
18. Morgado, J.; Farinhas, J.; Ferreira, Q. ; Charas, A.; Alcácer, L.A.; "Oxetane-Functionalised Conjugated Polymers for (Opto)electronics", Proc International Conf. on Science and Technology of Synthetic Metals - ICSM, Kyoto, Japan, Vol. nd, pp. 27 - 27, July, 2010.

2009

19. Farinhas, J.; Ferreira, Q. ; S. Fonseca; H. Burrows; Matos, M.; Alcácer, L.A.; Morgado, J.; Charas, A.; "Columnar-grain Films of Conjugated Polymers", Proc International Symp. on Flexible Organic Electronics - IS-FOE09, Halkidiki, Greece, Vol. 1, pp. 90 - 90, July, 2009.
20. Charas, A.; Farinhas, J.; Ferreira, Q. ; Matos, M.; Alcácer, L.A.; Morgado, J.; "Patterned films of semiconducting polymers made by spin coating", Proc International Symp. on Flexible Organic Electronics - IS-FOE09, Halkidiki, Greece, Vol. , pp. 54 - 54, July, 2009.
21. Morgado, J.; Charas, A.; G. Bernardo ; Ferreira, Q. ; Alcácer, L.A.; "ROLE OF INTERFACES IN POLYMER-BASED ELECTRONIC DEVICES(abstract only)", Proc III Reunión Ibérica de Coloides e Interfases - RIC, Granada, Spain, Vol. nd, pp. nd - nd, July, 2009.
22. Morgado, J.; G. Bernardo ; Ferreira, Q. ; Charas, A.; Alcácer, L.A.; "Characterization of Polymer Light-Emitting Diodes Interlayers using AFM and CS-AFM (abstract)", Proc International Conf. on Materials for Advanced Technologies - ICMAT, Singapore, Singapore, Vol. nd, pp. nd - nd, June, 2009.
23. Ferreira, Q. ; Alcácer, L.A.; Morgado, J.; "Characterization of self-assembled monolayers of thiols on gold using scanning tunneling microscopy", Proc Conf. on Telecommunications - ConfTele, Santa Maria da Feira, Portugal, Vol. 1, pp. 149 - 152, May, 2009.
24. Morgado, J.; Charas, A.; Alcácer, L.A.; "Environmental ageing of polymer-based thin film transistors: influence of the semiconducting polymer chemical structure", Proc Conf. on Telecommunications - ConfTele, Santa Maria da Feira, Portugal, Vol. Conftele2009, pp. 153 - 156, May, 2009.

25. Ferreira, Q. ; Alcácer, L.A.; Morgado, J.; "Molecular order of alkyl and aryl thiols self-assembled on Au using STM", Proc Workshop Nanoscale Self-organizing Structures for Plastic Electronics, Faro, Portugal, Vol. 0, pp. 0 - 0, March, 2009.

2008

26. Alcácer, L.A.; Charas, A.; Ferreira, Q. ; Morgado, J.; "Field-Effect Transistors based on a Cross-linked Polyfluorene", Proc *International Conf. on Science and Technology of Synthetic Metals - ICSM*, Porto de Galinhas, Brazil, Vol. NA, pp. NA - NA, July, 2008.
27. Charas, A.; Mendonça, A.; Alcácer, L.A.; Morgado, J.; "Functionalised Spirobifluorenes for Photonic Applications", Proc *International Conf. on Science and Technology of Synthetic Metals - ICSM*, Porto de Galinhas, Brazil, Vol. Oral Presentation, pp. - , July, 2008.

2007

28. Charas, A.; Morgado, J.; C. L. Lucas; P. Brogueira; Alcácer, L.A.; "A New Material for n-type Organic Field-Effect Transistors", Proc *Conf. on Telecommunications - ConfTele*, Peniche, Portugal, Vol. , pp. 271 - 274, May, 2007.
29. Morgado, J.; Ferreira, Q. ; Charas, A.; R. Paolo; G. Bernardo ; "Improved Light-Emitting Diodes Efficiency Using Unlikely Blends of Two Green-Emitting Polymers (abstract)", Proc *International Meeting on Molecular Electronics - ElecMol*, Grenoble, France, Vol. na, pp. na - na, December, 2010.
30. Ferreira, Q. ; Morgado, J.; "Molecular wires of zinc (II) octaethylporphyrin using 4,4' bipyridine as linker", Proc *International Meeting on Molecular Electronics - ElecMol*, Grenoble, France, Vol. na, pp. na - na, December, 2010.
31. Farinhas, J.; Charas, A.; Ferreira, Q. ; R. Paolo; Morgado, J.; "Preparation of sub-micron structured films of conjugated polymers and their use for photovoltaic device applications ", Proc *European Optical Society Topical Meeting: Organic Photonics, Annual Meeting da European Optical Society*, Paris, France, Vol. na, pp. na - na, October, 2010.
32. Morgado, J.; "Interlayer formation in polymer light-emitting diodes (Abstract)", Proc *LOPE-C International Conf. and Exhibition for the Organic and Printed Electronics Industry - LOPE-C*, Frankfurt, Germany, Vol. n/d, pp. n/d - n/d, May, 2010.
33. Farinhas, J.; Ferreira, Q. ; Matos, M.; Morgado, J.; Charas, A.; "Patterned films formed via spin coating blends of semiconducting and insulating polymers", Proc *Encontro Nacional de Química-Física da SPQ*, Aveiro, Portugal, Vol. 1, pp. 111 - 111, June, 2009.
34. Morgado, J.; Charas, A.; Mendonça, A.; J. C. Clark; G. L. Lanzani; L. B. Bazzana; A. N. Nocivelli; "Plastic Optical Fibers Doped with Luminescent Polymers to Achieve Gain and Ultrafast Optical Switching (abstract)", Proc *International Conf. on Materials for Advanced Technologies - ICMAT*, Singapore, Singapore, Vol. nd, pp. nd - nd, June, 2009.
35. Ferreira, Q. ; Morgado, J.; "Properties of thiols self-assembled monolayers on gold", Proc *Encontro Nacional de Química-Física da SPQ*, Aveiro, Portugal, Vol. I, pp. 11 - 11, June, 2009.
36. Charas, A.; Mendonça, A.; J. C. Clark; G. L. Lanzani; L. B. Bazzana; A. N. Nocivelli; Morgado, J.; "Plastic Optical fibers with Gain and switching", Proc *Conf. on Telecommunications - ConfTele*, Sta Maria da Feira, Portugal, Vol. , pp. - , May, 2009.
37. Morgado, J.; Mendonça, A.; Charas, A.; J. C. Clark; G. L. Lanzani; L. B. Bazzana; A. N. Nocivelli; "Polyfluorene-PMMA copolymers for plastic optical fibers with gain", Proc *SPIE - Organic Optoelectronics and Photonics III* , Strasbourg, France, Vol. 6999, pp. 69990M-1 - 69990M-7, April, 2008.
38. Horta, N.H.; Charas, A.; Morgado, J.; "PLASTIC: Automatic Characterization and Modeling of Organic Transistors for IC Design and Simulation", Proc *Conf. on Telecommunications - ConfTele*, Peniche, Portugal, Vol. , pp. - , March, 2007.