

## Paulo Jorge da Silva Almeida

Professor Catedrático com Nomeação Definitiva

Departamento de Química | Faculdade de Ciências | Universidade da Beira Interior

### Publicações científicas mais relevantes

- P. S. Almeida, A. M. Lobo, S. Prabhakar, "A Novel Synthesis of Benzimidazolinones", *Heterocycles* **1989**, 28(2), 653-656.
- P. S. Almeida, S. Prabhakar, A. M. Lobo, M. J. M. Curto, "Synthetic Applications of *N*-Aryl-*O*-Acyl Hydroxamic Acids. A Convenient Route to Three Substituted *N*-Benzoyl Oxindoles" *Tetrahedron Letters* **1991**, 32(23), 2671-2674.
- L. F. Vieira Ferreira, P. V. Cabral, P. Almeida, A. S. Oliveira, M. J. Reis, A. M. Botelho do Rego, "Ultraviolet/Visible Absorption, Luminescence and X-ray Photoelectron Spectroscopic Studies of a Rhodamine Dye Covalently Bound to Microcrystalline Cellulose", *Macromolecules* **1998**, 31(12), 3936-3944.
- A. S. Oliveira, P. Almeida, L. F. Vieira Ferreira, "Photophysics of Cyanine Dyes on Surfaces: Laser-induced Photoisomer Emission of 3,3'-Dialkylthiacarbocyanines Adsorbed onto Microcrystalline Cellulose", *Collection of Czechoslovak Chemical Communications* **1999**, 64(3), 459-473.
- P. Almeida, "Cianinas, a Cor não Visível da Fotografia", *Química - Boletim da SPQ - ... a Cor*, **1999**, 73, 9-12.
- S. S. Ramos, A. F. Vilhena, L. Santos, P. Almeida, "<sup>1</sup>H and <sup>13</sup>C NMR Spectroscopy of Commercial Rhodamine Esters Derivatives", *Magnetic Resonance in Chemistry* **2000**, 38(6), 475-478.
- A. C. Pardal, S. S. Ramos, L. Santos, P. Almeida, "Synthesis and Fixation of Aminocyanines to Microcrystalline Cellulose using Cyanuric Chloride as a Cross-linking Agent" *Coloration Technology* **2001**, 117(1), 43-48.
- R. E. F. Boto, A. S. Oliveira, L. F. Vieira Ferreira, P. Almeida, "A Study of *N,N'*-Dicarboxyalkylthiacarbocyanines as Cyanine Dye Derivatives Covalently Bound to Cellulose", *Dyes and Pigments* **2001**, 48(2), 71-84.

- P. F. Santos, P. S. Almeida, A. M. Lobo, S. Prabhakar, "A Formal Synthesis of ( $\pm$ )-Eseroline via an Azaoxy-Cope Rearrangement", *Heterocycles* **2001**, 55(6), 1029-1043.
- A. C. Pardal, S. S. Ramos, P. F. Santos, L. V. Reis, P. Almeida, "Synthesis and Spectroscopic Characterization of *N*-Alkyl Quaternary Ammonium Salts Typical Precursors of Cyanines", *Molecules* **2002**, 7(3), 320-330.
- A. C. Pardal, M. J. Nunes, A. M. Gama, J. A. Queiroz, P. Almeida, "Preliminary Studies on the Use of Cyanines as Ligands in Dye-Affinity Chromatography of Proteins", *Coloration Technology* **2002**, 118(3), 95-99.
- S. S. Ramos, P. F. Santos, L. V. Reis, P. Almeida, "Some New Symmetric Rigidified Triheterocyclic Heptamethinecyanines Dyes Absorbing in the Near Infrared", *Dyes and Pigments* **2002**, 53(2), 143-152.
- L. V. Reis, J. P. C. Serrano, P. Almeida, P. F. Santos, "New Synthetic Approach to Aminosquarylium Cyanine Dyes", *Synlett* **2002**, 10, 1617-1620.
- P. F. Santos, L. V. Reis, P. Almeida, A. S. Oliveira, L. F. Vieira Ferreira, "Singlet Oxygen Generation Ability of Squarylium Cyanine Dyes", *Journal of Photochemistry and Photobiology, A: Chemistry* **2003**, 160(3), 159-161.
- P. F. Santos, L. V. Reis, P. Almeida, J. P. Serrano, A. S. Oliveira, L. F. Vieira Ferreira, "Efficiency of Singlet Oxygen Generation of Aminosquarylium Cyanines", *Journal of Photochemistry and Photobiology, A: Chemistry* **2004**, 163(1-2), 267-269.
- P. F. Santos, L. V. Reis, I. Duarte, J. P. Serrano, P. Almeida, A. S. Oliveira and L. F. Vieira Ferreira, "Synthesis and Photochemical Evaluation of Iodinated Squarylium Cyanine Dyes", *Helvetica Chimica Acta* **2005**, 88(5), 1135-1143.
- P. F. Santos, N. Srinivasan, P. S. Almeida, A. M. Lobo, S. Prabhakar, "A Formal Synthesis of ( $\pm$ )-Physostigmine via 3,3-Rearrangement of a Bis-enamine", *Tetrahedron* **2005**, 61(38), 9147-9156.
- S. S. Ramos, L. Santos, P. Almeida, W. B. Motherwell, M. C. Costa, "<sup>13</sup>C NMR Spectral Assignment of Five Epimeric 3 $\alpha$ - versus 3 $\beta$ -Functionalized Cholestane Pairs", *Magnetic Resonance in Chemistry* **2005**, 43(10), 861-863.
- R. M. El-Shishtawy, P. Almeida, "A New Vilsmeier-type Reaction for One-pot Synthesis of pH Sensitive Fluorescent Cyanine Dyes", *Tetrahedron* **2006**, 62(33), 7793-7798.

- R. Santos, L. M. Fernandes, R. F. Boto, R. Simões, P. Almeida. "NMR Spectroscopy Study of 2-Methylbenzoxazolium Salts Hydroxylation in DMSO-d<sub>6</sub> Solution", *Tetrahedron Letters* **2006**, 47(38), 6723-6725.
- A. Silva, R. E. F. Boto, R. M. El-Shishtawy, P. Almeida, "Rhodamine B as Ligand for Affinity Chromatography. Fixation onto Cellulose studies by a Curing Method", *European Polymer Journal* **2006**, 42(10), 2270-2282.
- R. E. F. Boto, R. M. El-Shishtawy, P. F. Santos, L. V. Reis, P. Almeida, "Synthesis and Characterization of Novel Mono- and Dicarboxyalkylthiacarbocyanines and their Ester Derivatives", *Dyes and Pigments* **2007**, 73(2), 195-205.
- R. E. F. Boto, P. F. Santos, L. V. Reis, P. Almeida, "Synthesis and Characterization of Mono- and Dicarboxyalkyloxacarbocyanines", *Dyes and Pigments* **2007**, 75(2), 298-305.
- M. J. Nunes, L. V. Reis, P. F. Santos, P. Almeida, "Dynamic Exchange of Heterocyclic Subunits during Halogen Substitution in Chloroheptamethinecyanine Dyes by Benzoazolium Salts", *Tetrahedron Letters* **2007**, 48(29), 5137-5142.
- R. M. El-Shishtawy, C. R. Santos, I. Gonçalves, H. Marcelino, P. Almeida, "New Amino and Acetamido Monomethine Cyanine Dye for the Detection of DNA in Agarose Gels", *Bioorganic & Medicinal Chemistry* **2007**, 15(16), 5537-5542.
- S. S. Ramos, L. Ramalho, M. Costa, A. Teixeira, P. Almeida, M. C. Costa, "Mass Spectrometric Analysis of Epimeric 3 $\alpha$ /3 $\beta$  Functionalized Steroids", *Arkivoc* **2007**, 14, 163-171.
- S. S. Ramos, P. Almeida, L. Santos, W. B. Motherwell, T. D. Sheppard, M. C. Costa, "Functionalization of Terpenoids at C-4 via Organopalladium Dimers. Cyclopropane Formation During Oxidation of Homoallylic  $\sigma$ -Organopalladium Intermediates with Lead Tetraacetate", *Tetrahedron* **2007**, 63(51), 12608-12615.
- I. R. Pais, M. J. Nunes, L. V. Reis, P. F. Santos, P. Almeida, "The Synthesis of Chloroheptamethinecyanine Dyes in the Absence of Water", *Dyes and Pigments* **2008**, 77(1), 48-52.

- R. E. F. Boto, P. Almeida, J. A. Queiroz, "Thiocarbocyanine as Ligand in Dye-Affinity Chromatography for Protein Purification", *Biomedical Chromatography* **2008**, 22(3), 278-288.
- R. E. F. Boto, P. F. Santos, L. V. Reis, P. Almeida, "Synthesis and Characterization of Mono- and Dicarboxyalkylselenocarbocyanines", *Dyes and Pigments* **2008**, 76(1), 165-172.
- M. A. Salvador, L. V. Reis, P. Almeida, P. F. Santos, "Delocalized Cationic Azo Dyes Containing a Thiazole Moiety", *Tetrahedron* **2008**, 64(2), 299-303.
- K. D. Volkova, V. B. Kovalska, M. Y. Losytskyy, A. Bento, L. V. Reis, P. F. Santos, P. Almeida, S. M. Yarmoluk, "Studies of Benzothiazole and Benzoselenazole Squaraines as Fluorescent Probes for Albumins Detection", *Journal of Fluorescence* **2008**, 18(5), 877-882.
- H. Faustino, R. M. El-Shishtawy, L. V. Reis, P. F. Santos, P. Almeida, "2-Nitrosobenzothiazoles: Useful Synthons for Azobenzothiazole Dyes", *Tetrahedron Letters* **2008**, 49(48), 6907-6909.
- M. A. Salvador, P. Almeida, L. V. Reis, P. F. Santos, "Delocalized Cationic Azo Dyes derived from 2-Aminoselenazole-5-carbaldehyde", *Arkivoc* **2008**, 17, 90-95.
- M. A. Salvador, L. V. Reis, P. Almeida, P. F. Santos, "Near-infrared Absorbing Delocalized Cationic Azo Dyes", *Dyes and Pigments* **2009**, 82(2), 118-123.
- P. F. Santos, L. V. Reis, J. P. Serrano, P. Almeida, "The synthesis and characterization of novel, aza-substituted squarylium cyanine dyes", *Dyes and Pigments* **2009**, 81(3), 197-202.
- R. E. F. Boto, U. Anyanwu, F. Sousa, P. Almeida, J. A. Queiroz, "Thiocarbocyanine as ligand in dye-affinity chromatography for protein purification. II. Dynamic binding capacity using lysozyme as a model", *Biomedical Chromatography* **2009** (doi: 10.1002/bmc.1212).
- H. Faustino, C. R. Brannigan, L. V. Reis, P. F. Santos, P. Almeida, "New Azobenzothiazoles Dyes from 2-Nitrosobenzothiazoles", *Dyes and Pigments* **2009**, 83(1), 89-94.

- A. Silva, R. E. F. Boto, C. Tomaz, J. A. Queiroz, P. Almeida, "Rhodamine B as Ligand for Affinity Chromatography. Chromatographic Studies on Derivatized Beaded Cellulose", *Journal of Chromatography Science* **2009**, aceite para publicação.