

RITA DELGADO

CURRICULUM VITAE

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Name: Rita Virgínia Delgado

Place of Birth: Angola

Date of Birth: February 23, 1948

Nationality: Portuguese

Institutional Address: Instituto de Tecnologia Química e Biológica (ITQB)
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Research Institution: ITQB

Academic Degrees: 1) Ph.D. in Chemical Engineering, Instituto Superior Técnico (IST), Lisbon, January 1985. 2) "Agregação" in Chemistry, IST, Lisbon, 1995.

Professional Position: Associated Professor at IST (February 1992–November 2011) and Group Leader of Research at ITQB since 1996.

Main Scientific Area of Research: Coordination Chemistry and Supramolecular Chemistry

Other Scientific Areas of Interest: Analytical Chemistry (determination of equilibrium constants); EPR and NMR spectroscopy

Academic Degrees and Fields of Study: Degree in Chemical Engineering, IST, Lisbon, 1971; PhD. in Chemical Engineering, IST, Lisbon, January 1985; "*Agregação*" in Chemistry, IST, 1995.

- Two visits to the Inorganic Chemistry Department of Oxford U.K., 1982 and 1983, in collaboration with Professor Staveland to work with calorimetric titrations.
- "Post-Doctorate Visiting" at the Ohio State University, Columbus, Ohio (USA), from October 1985 to August 1986, to work with Prof. Daryle H. Busch on synthesis and reactivity with molecular oxygen of new macrocyclic pentadentate complexes of Cobalt(II).
- Visit to the "Dipartimento di Chimica" of the University of Florence (Italy), from April to May 1987, to work with Prof. P. Paoletti and Dr. M. Micheloni on microcalorimetric studies (batch process).
- Two visits to the "Institut für Anorganische Chemie", of the Basel University, Switzerland (1987, 1990) to collaborate with Prof. Thomas A. Kaden, on the study of metal complexes using N-methylenephosphonate derivatives of tetraazamacrocyclic ligands.
- Visit to the "École Européenne des Hautes Études des Industries Chimiques de Strasbourg" (France), 1990, to collaborate with Dr. Anne-Marie Albrecht-Gary, on kinetics studies using metal complexes of some macrocyclic ligands.
- Sabbatical visit to the "Texas A&M University", in College Station (USA), from May 1 to 30 August 1992, to work with Professor A. E. Martell, on the determination of stability constants of complexes of very high values of stability constants, using competition technique.
- "Professeur Invité" of Ecole Européenne de Chimie, Polymères et Matériaux, University Louis Pasteur (ECPM-ULP) in Strasbourg (France), April 1999.
- "Professeur Invité" of Université de Bretagne Occidentale UMR-CNRS 6521, UFR des Sciences et Techniques (France), 5 March to 5 April 2012.

Present Position: Group Leader of Research at ITQB and retired from Instituto Superior Técnico since November 2011

Previous Positions: Demonstrator of Inorganic Chemistry at IST, Department of Chemical Engineering, from September 1970 to July 1971 (while an undergraduate student); Teaching Assistant of Inorganic Chemistry, IST, from September 1971 to July 1972.

Teaching Assistant of Analytical Chemistry, IST, from September 1974 to January 1985.
Assistant Professor of Analytical Chemistry, IST, from January 1985 to February 1992.
Associated Professor of the Department of Chemical and Biochemical Engineering.

Publications: 114 scientific papers, 4 of them in Portuguese journals, 8 academic publications in Portuguese for students and co-author of the translation from English to Portuguese of the book “*Supramolecular Chemistry. Concepts and Perspectives*, Jean-Marie Lehn.

Communications: 170 communications in Congresses and 20 invited conferences in Universities or scientific institutes.

Supervision of thesis: 11 PhD theses; 6 Master theses.

PUBLICATIONS

I) Academic Works in Portuguese

- P1. Luís Vilas Boas, Rita Delgado, Maria Helena Santos, *Trabalhos práticos de Química Analítica I e II*, Instituto Superior Técnico, Lisboa, 1977.
- P2. Rita Delgado, José Armando Silva, Rui Marques, *Trabalhos práticos de Química Analítica I*, Instituto Superior Técnico, Lisboa, 1989.
- P3. Rita Delgado, José Armando Silva, Sílvia Chaves, *Problemas de Química Analítica I*, Instituto Superior Técnico, Lisboa, 1991.
- P4. Rita Delgado, *Potenciometria, Química*, Boletim da Sociedade Portuguesa de Química, 1993, 34-38.
- P5. Rita Delgado, *Química Analítica I. Apontamentos das aulas teóricas*. Instituto Superior Técnico, Lisboa, 1996.
- P6. Rita Delgado, *Química das Soluções Aquosas. Apontamentos das aulas teóricas*. Instituto Superior Técnico, Lisboa, 2001, reprinted at 2004.
- P7. Rita Delgado, *Equilíbrio Químico em Soluções Aquosas*, Capítulo III de “*Bioquímica Humana. Química Orgânica e Física*” edited by Pedro Orlando Rodrigues and Maria da Graça Morais, McGraw Hill, 2002, pags. 177-268.
- P8. António da Conceição, Rita Delgado, Hermínio Diogo, Teresa Duarte, Anabela Fernandes, José Nuno Lopes, Manuel Minas da Piedade, *Guia de Laboratórios de Química II e de Química Geral II*, Instituto Superior Técnico, Lisboa, 2006/7.
- P9. Maria José Calhorda, Rita Delgado, Ana Margarida Martins, Vanderlei Machado and Nuno Miranda translation to portuguese of *Química Supramolecular: conceitos e perspectivas*, de Jean-Marie Lehn, ISTPress, Lisboa, 2007, 388 pages.

II) Scientific publications

- 1. *Metal Complexes of Cyclic Tetra-Azatetracetic Acids*, Rita Delgado, J. J. R. Fraústo da Silva, *Talanta*, 1982, **29**, 815-822.
- 2. *The Chelate Effect*, J. M. N. A. Fareleira, Rita Delgado, J. J. R. Fraústo da Silva, M. C. T. A. Vaz, *Proc. 1st. International Conference on Thermo-dynamics of Solution of Non-Electrolytes*, Universidad de Santiago de Compostela, Cursos y Congresos, **28**, 543-558, 1983.
- 3. *The Thermodynamics of Complex Formation of Cyclic Tetra-Aza-Tetracetic Acids*, Rita Delgado, J. J. R. Fraústo da Silva, M. C. T. A. Vaz, *Inorg. Chim. Acta*, 1984, **90**, 185-190.
- 4. *Nuclear Magnetic Resonance Studies of the Protonation Sequence of Cyclic Tetra-Aza-Tetracetic Acids*, J. R. Ascenso, Rita Delgado, J. J. R. Fraústo da Silva, *J. Chem. Soc. Perkin Trans. II*, 1985, 781-788.
- 5. *Copper(II) Complexes of Cyclic Tetra-Aza-Tetracetic Acids - Unusual Features and Possible Analytical Applications*, Rita Delgado, J. J. R. Fraústo da Silva, M. Cândida T. A. Vaz, *Talanta*, 1986, **33**, 285-287.

6. *Lanthanide Complexes of 1,4,7,10-Tetra-Azacyclotridecane-1,4,7,10- Tetra-acetic Acid: Proton Nuclear Magnetic Resonance Studies*, José R. Ascenso, Rita Delgado, J. J. R. Fraústo da Silva, *J. Chem. Soc. Dalton Trans.*, 1986, 2395-2398.
7. *Metal Complexes of 1,4,10-Trioxa-7,13-Diazacyclopentadecane-N,N'-Diacetic Acid*, Rita Delgado, J. J. R. Fraústo da Silva, M. Cândida T. A. Vaz, *Polyhedron*, 1987, **6**, 29-38.
8. *Ligandos Macrocíclicos: Síntese e Propriedades Complexantes*, Rita Delgado, *Rev. Port. Quím.*, 1987, **29**, 89-95.
9. *Exceptional Efficacy of some New Lacunized Dioxygen Carriers Based on Schiff Bases Derived from β -diketones and Triamines*, Rita Delgado, Mark Glogowski, Daryle H. Busch, *J. Am. Chem. Soc.*, 1987, **109**, 6855-6857.
10. *Novas Complexonas Derivadas de Poliazamacrociclos: Ácido 1,4,8,12-Tetra-Azaciclopentadecano-N,N',N'',N'''-tetraacético*, Rita Delgado, J. J. R. Fraústo da Silva, *Portugaliae Electrochimica Acta*, 1988, **6**, 117-133.
11. *Metal Complexes of 1-Oxa-4,7,10-Triazacyclododecane-N,N',N''-Triacetic Acid*, M. T. S. Amorim, Rita Delgado, J. J. R. Fraústo da Silva, M. Cândida T. A. Vaz, M. Fernanda Vilhena, *Talanta*, 1988, **35**, 741-745.
12. *The Thermodynamics of Formation of Metal Complexes of 1,4,10-Trioxa-7,13-Diazacyclopentadecane-N,N'-Diacetic and of 1,4,10,13-Tetraoxa-7,16-Diaza-cyclo-octadecane-N,N'-Diacetic Acids*, Rita Delgado, J. J. R. Fraústo da Silva, M. Cândida T. A. Vaz, P. Paoletti, M. Micheloni, *J. Chem. Soc. Dalton Trans.*, 1989, 133-137.
13. *Metal Complexes with Macrocyclic Ligands: Protonation Studies and Complexation Properties of Tetraazamacrocyclic Methylenephosphonates with Earth-Alkali Ions*, Rita Delgado, L. C. Siegfried, Thomas A. Kaden, *Helv. Chim. Acta*, 1990, **73**, 140-148.
14. *Nuclear Magnetic Resonance Studies of the Protonation Sequence of Some Oxa-aza Macrocyclic Compounds*, M. T. S. Amorim, J. R. Ascenso, Rita Delgado, J. J. R. Fraústo da Silva, *J. Chem. Soc., Dalton Trans.*, 1990, 3449-3455.
15. *Protonation and Metal Complexation Studies on Some Oxa-Diaza Macrocyclic Ligands*, M. Fátima Cabral, Judite Costa, Rita Delgado, J. J. R. Fraústo da Silva, M. Fernanda Vilhena, *Polyhedron*, 1990, **9**, 2847-2857.
16. *Dissociation Constants of Brønsted Acids in D₂O and H₂O - Studies on Polyaza and Polyoxa-Polyaza Macrocycles and a General Correlation*, Rita Delgado, J. J. R. Fraústo da Silva, M. T. S. Amorim, M. Fátima Cabral, Sílvia Chaves, Judite Costa, *Anal. Chim. Acta.*, 1991, **245**, 271-282.
17. *Synthesis, Electron Spin Resonance Spectroscopy, and Shape Determining Angle Analysis of Superstructured Copper(II) Schiff Base Complexes Containing Persistent Voids*, W. M. Davis, S. J. Dzugan, M. W. Glogowski, Rita Delgado, Daryle H. Busch, *Inorg. Chem.*, 1991, **30**, 2724-2731.
18. *Oxa-Triaza Macrocyclic Ligands: Studies on Protonation and Metal Complexation*, M. T. S. Amorim, Sílvia Chaves, Rita Delgado, J. J. R. Fraústo da Silva, *J. Chem. Soc. Dalton Trans.*, 1991, 3065-3072.
19. *The Stability of the Metal Complexes of Cyclic Tetra-Aza Tetra-Acetic Acids*, Sílvia Chaves, Rita Delgado, J. J. R. Fraústo da Silva, *Talanta*, 1992, **39**, 249-254.
20. *N,N'-Diacetate Derivatives of some Polyoxa-Polyaza Macrocyclic Compounds: Protonation and Complexation Studies*, M. Teresa S. Amorim, Rita Delgado, J. J. R. Fraústo da Silva, *Polyhedron*, 1992, **11**, 1891-1899.
21. *1-Oxa-4,8,12-triazacyclotetradecane-4,12-diacetic Acid. Studies on Protonation and Metal Complexation: Crystal Structure of its Copper Complex*, Sílvia Chaves, Rita Delgado, M. Teresa Duarte, J. A. L. Silva, M. A. A. de C. T. Carrondo, Vítor Félix, *J. Chem. Soc. Dalton Trans.*, 1992, 2579-2584.
22. *Stabilities of some Divalent and Trivalent Ion Complexes of Macrocyclic Triaza-triacetic Acids*, Rita Delgado, Yizhen Sun, Ramunas J. Motekaitis, A. E. Martell, *Inorg. Chem.*, 1993, **32**, 3320-3326.
23. *Metal Complexes of Macrocyclic Ligands Containing Pyridine*, Judite Costa, Rita Delgado, *Inorg. Chem.*, 1993, **32**, 5257-5265.

24. *Dos Éteres-coroa à Terapia do Cancro. Três décadas de química dos macrociclos*, Rita Delgado, *Química, Boletim da Sociedade Portuguesa de Química*, 1994, **52**, 56-59.
25. *Metal Complexes of Pentadentate Macrocyclic Ligands Containing Oxygen and Nitrogen as Donor Atoms*, M. Fátima Cabral, Rita Delgado, *Helv. Chim. Acta*, 1994, **77**, 515-524.
26. *Electron Spin Resonance Studies and Crystal Structures of Copper(II) Complexes of some 12-, 13- and 14-Membered Oxatriaza Macrocycles*, Vítor Felix, Rita Delgado, M. Teresa S. Amorim, Sílvia Chaves, Adelino M. Galvão, M. Teresa Duarte, M. A. A. F. de C. T. Carrondo, Isabel Moura, J. J. R. Fraústo da Silva, *J. Chem. Soc. Dalton Trans.*, 1994, 3099-3106.
27. *Co-ordination Chemistry with Macrocyclic Compounds*, Rita Delgado, *Rev. Port. Quím.*, 1995, **2**, 18-29.
28. *Ga³⁺ and In³⁺ Complexes with the Bis(butylamide) Derivative of Diethylenetriaminepentaacetic Acid: Stability Constants and NMR Studies in Aqueous Solution*, Carlos F. G. C. Geraldès, Judite Costa, Rita Delgado, Ana M. Urbano, François Jasanada, Françoise Nepveu, *J. Chem. Soc. Dalton Trans.*, 1995, 327-335.
29. *Tetraaza Macrocycles Containing Pyridine and their Copper(II) and Nickel(II) complexes: X-ray, spectroscopic, Molecular Mechanic and Molecular Orbital Studies*, Vítor Félix, Maria José Calhorda, Judite Costa, Rita Delgado, Cláudia Brito, Maria Teresa Duarte, Teresa Arcos, Michael G. B. Drew, *J. Chem. Soc., Dalton Trans.*, 1996, 4543-4553.
30. *Stability Constants of Metal Complexes of Macrocyclic Ligands with Pendant Donor Groups*, Arthur E. Martell, Ramunas J. Motekaitis, E. T. Clarke, Rita Delgado, Y. Sun, R. Ma, *Supramolecular Chem.*, 1996, **6**, 353-363.
31. *Metal Complexes of a 12-membered Tetraaza Macrocycle Containing Pyridine with N-Carboxymethyl Groups*, Rita Delgado, Sandra Quintino, Miguel Teixeira, Anjiang Zhang, *J. Chem. Soc., Dalton Trans.*, 1997, 55-63.
32. *Metal Complexes of a Tetraaza Macrocycle with N-Carboxymethyl Groups as Pendant Arms*, Judite Costa, Rita Delgado, M. do Carmo Figueira, Rui T. Henriques, Miguel Teixeira, *J. Chem. Soc. Dalton Trans.*, 1997, 65-73.
33. *Redox Method for the Determination of Stability Constants of some Trivalent Metal Complexes*, Rita Delgado, M. do Carmo Figueira, Sandra Quintino, *Talanta*, 1997, **45**, 451-462.
34. *Tris(carboxymethyl) Oxatriaza Macrocycles and their Complexes*, Sílvia Chaves, Ana Cerva, Rita Delgado, *J. Chem. Soc. Dalton Trans.*, 1997, 4181-4189.
35. *13-Membered Macrocycles and their Complexometric Properties: study of 7,11-bis(carboxymethyl)-1,4-dioxo-7,11-diazacyclotridecane*, Sílvia Chaves, Ana Cerva, Rita Delgado, *Polyhedron*, 1998, **17**, 93-104.
36. *Design of Selective Macrocyclic Ligands for the Divalent First-row Transition Metal Ions*, Judite Costa, Rita Delgado, Michael G. B. Drew, Vítor Felix, *J. Chem. Soc. Dalton Trans.*, 1998, 1063-1071.
37. *NMR Study on N,N'-(carboxymethyl) Polioxa-Diaza Bis(Lactone) Macrocycles*, Anjiang Zhang, Jincheng Zhou, Shumei Wang, Rita Delgado, *Chinese J. Mag. Reson.*, 1998, **15**, 291-294.
38. *Triethylenetetramine-N,N,N',N'',N''',N''''-hexaacetic Acid (TTHA) and TTHA-bis(butanamide) as Chelating Agents Relevant to Radiopharmaceutical Applications*, Benbrahim Achour, Judite Costa, Rita Delgado, Emmanuelle Garrigues, Carlos F. G. C. Geraldès, Françoise Nepveu, M. Isabel Prata, *Inorg. Chem.*, 1998, **37**, 2729-2740.
39. *Structural Characterization of Cobalt(III), Nickel(II), Copper(II) and Iron(III) Complexes of Tetraazamacrocycles with N-carboxymethyl Arms*, Judite Costa, Rita Delgado, Michael G. B. Drew, Vítor Félix, Rui T. Henriques, João C. Waerenborgh, *J. Chem. Soc., Dalton Trans.*, 1999, 3253-3265.
40. *4,7,10,13-Tetrakis(carboxymethyl)-1-oxa-4,7,10,13-tetraazacyclopentadecane and properties of its metal complexes*, M. Fátima Cabral, Rita Delgado, *Polyhedron*, 1999, **18**, 3479-3489.

41. *Methyl Pyridine Derivatives of 14-membered Tetraaza Macrocycles. A New Host with High Selectivity for Cadmium*, Judite Costa, Rita Delgado, Michael G. B. Drew, Vítor Félix, *J. Chem. Soc., Dalton Trans.*, 1999, 4331-4339.
42. *Dioxatriazamacrocyclic-*N,N,N'*-triacetic Acids: Synthesis, Protonation Constants, and Metal-Complex Studies. Crystal Structure of Hydrogen [1,4-Dioxo-7,10,13-triazacyclopentadecane-7,10,13-triacetato(4)-*kN*⁷,*kN*¹¹,*kN*¹³, *kO*⁷] copper(1)-Hydrate (2:1) ([Cu(HL¹)]·0.5H₂O*, M. Fátima Cabral, Rita Delgado, M. Teresa Duarte, Miguel Teixeira, *Hev. Chim. Acta*, 2000, **83**, 702-721.
43. *A New Redox-Responsive 14-membered Tetraazamacrocyclic with Ferrocenylmethyl Arms as Receptor for Sensing Transition-metal Ions*, Judite Costa, Rita Delgado, Michael G. B. Drew, Vítor Félix, André Saint-Maurice, *J. Chem. Soc., Dalton Trans.*, 2000, 1907-1916.
44. *Mn²⁺, Co²⁺, Cu²⁺ and Zn²⁺ Complexes with Two Macrocyclic Ligands Bearing L-Lactate-Like Functions: Potentiometric Studies and Evaluation of Superoxide-Scavenging Properties of the Mn²⁺ Complex*, Samuel Delagrang, Rita Delgado, Françoise Nepveu, *J. Inorg. Biochem.*, 2000, **81**, 65-71.
45. *Metal Complexes of an Oxatriaza Macrocyclic Containing Pyridine: Thermodynamic Stability and Structural Studies*, Judite Costa, Rita Delgado, M. Teresa Duarte, Vítor Félix, *Supramolecular Chem.*, 2001, **13**, 333-347.
46. *X-ray Diffraction and Molecular Mechanics Studies of 12-, 13-, and 14-Membered Tetraaza Macrocyclics Containing Pyridine: Effect of the Macrocyclic Cavity Size in the Selectivity of the Metal Ion*, Vítor Félix, Judite Costa, Rita Delgado, Michael G. B. Drew, M. Teresa Duarte, Catarina Resende, *J. Chem. Soc., Dalton Trans.*, 2001, 1462-1471.
47. *Activity Against Mycobacterium tuberculosis with Concomitant Induction of Cellular Immune Responses by Tetraaza Macrocyclic with Acetate Pendant Arms*, Suzana David, Diane Ordway, Maria-Jorge Arro, Judite Costa, Rita Delgado, *Res. Microbiol.*, 2001, **152**, 569-576.
48. *Metal Complexes of Dipyridine Hexaaza Macrocyclics. Structural Differences between 18- and 20-membered Macrocyclics on Complexation*, Luís Branco, Judite Costa, Rita Delgado, Michael G. B. Drew, Vítor Félix, Brian J. Goodfellow, *J. Chem. Soc., Dalton Trans.*, 2002, 3539-3550.
49. *Metal Complexes of edta-derived Macrocyclic Ether Bis(lactones). Hydrolysis of the Macrocyclics and the Metal Catalysis Effect*, Rita Delgado, Maria de Fátima Cabral, Rodrigo Castanheira, Anjiang Zhang, Rudolf Herrmann, *Polyhedron*, 2002, **21**, 2265-2276.
50. *Complexes of a Tetraazacyclopentadecane: Solution and Molecular Modelling Studies*, Patrícia Antunes, Paula M. Campello, Rita Delgado, Michael G. B. Drew, Vítor Félix, Isabel Santos, *J. Chem. Soc., Dalton Trans.*, 2003, 1852-1860.
51. *Critical Evaluation of Stability Constants and Thermodynamic Functions of Metal Complexes of Crown-ethers*, Françoise Arnaud-Neu, Rita Delgado, Sílvia Chaves, *Pure App. Chem.*, 2003, **75**, 71-102.
52. *Metal Complexes of a Dipyridine Octaazamacrocyclic: Stability Constants, Structural and Modelling Studies*, Carla Cruz, Sílvia Carvalho, Rita Delgado, Michael G. B. Drew, Vítor Félix, Brian J. Goodfellow, *Dalton Trans.*, 2003, 3172-3183.
53. *Dinuclear copper and zinc complexes of a hexaazamacrocyclic containing p-xylyl spacers and bridging anions: theoretical and spectroscopic studies*, Sílvia Carvalho, Carla Cruz, Rita Delgado, Michael G. B. Drew, Vítor Félix, *Dalton Trans.*, 2003, 4261-4270.
54. *Tetraazamacrocyclic bearing quinoline pendant arms and its complexation properties*, Xiuling Cui, M. Fátima Cabral, Judite Costa, Rita Delgado, *Inorg. Chim. Acta*, 2003, **356**, 133-141.
55. *Bis[1,1'-*N,N'*-(2-picolyl) aminomethyl]ferrocene as a Redox Sensor for Transition Metal Ions*, Xiuling Cui, Helena M. Carapuça, Rita Delgado, Michael G. B. Drew, Vítor Félix, *Dalton Trans.*, 2004, 1743-1751.
56. *Bis- and tris-(methylphosphononic) acid derivatives of 14-membered tetraaza-macrocyclics containing pyridine: synthesis, protonation and complexation studies*, Krassimira P. Guerra, Rita Delgado, Luís M. P. Lima, Michael G. B. Drew, Vítor Félix, *Dalton Trans.*, 2004, 1812-1822.
57. ¹⁵³Sm and ¹⁶⁶Ho Complexes with Tetraazamacrocyclics Containing Pyridine and Methylcarboxylate or Methylphosphonate Pendant Arms, Fernanda Marques, Krassimira P.

- Guerra, Lurdes Gano, Judite Costa, M. Paula Campello, Luís M. P. Lima, Rita Delgado, Isabel Santos, *J. Biol. Inorg. Chem.*, 2004, **9**, 859-872.
58. *Supramolecular Aggregates between Carboxylate Anions and an Octaaza Macrocyclic Receptor*, Carla Cruz, Rita Delgado, Michael G. B. Drew, Vítor Félix, *Org. Biomol. Chem.*, 2004, **2**, 2911-2918.
 59. *Structure, Characterization, and Metal-Complexation Properties of a New Tetraazamacrocyclic Containing Two Phenolic Pendant Arms*, Xiuling Cui, Maria José Calhorda, Paulo J. Costa, Rita Delgado, Michael G. B. Drew, Vítor Félix, *Helv. Chim. Acta*, 2004, **87**, 2613-2628.
 60. *Lanthanide complexes of macrocyclic derivatives useful for medical applications*, Rita Delgado, Judite Costa, Krassimira P. Guerra, Luís M. P. Lima, *Pure App. Chem.*, 2005, **77**, 569-579.
 61. *Ditopic hexaazamacrocycles containing pyridine: synthesis, protonation and complexation studies*, Feng Li, Rita Delgado, Judite Costa, Michael G. B. Drew, Vítor Félix, *Dalton Trans.*, 2005, 82-91.
 62. *Critical evaluation of stability constants of metal complexes of complexones for biomedical and environmental applications*, Giorgio Anderegg, Françoise Arnaud-Neu, Rita Delgado, Judith Felcman, Konstantin Popov, *Pure App. Chem.*, 2005, **77**, 1445-1495.
 63. *A N,N'-diacetate benzodioxotetraazamacrocyclic and its transition metal complexes*, Sara Lacerda, Maria Paula Campello, Isabel C. Santos, Isabel Santos, Rita Delgado, *Polyhedron*, 2005, **24**, 451-461.
 64. *Carboxylate anions binding and sensing by a novel tetraazamacrocyclic containing ferrocene as receptor*, Xiuling Cui, Rita Delgado, Helena M. Carapuça, Michael G. B. Drew, Vítor Félix, *Dalton Trans.*, 2005, 3297-3306.
 65. *In vitro effect of free and complexed indium(III) against Mycobacterium tuberculosis*, Suzana David, Vanessa Barros, Carla Cruz, Rita Delgado, *FEMS Microbiology Lett.*, 2005, **251**, 119-124.
 66. *Radiopharmaceuticals for Targeted Radiotherapy*, Fernanda Marques, António Paulo, M. Paula Campello, Sara Lacerda, Rute Filipe Vítor, Lurdes Gano, Rita Delgado, Isabel Santos, *Radiation Protection Dosimetry*, 2005, **116**, 601-604.
 67. *Exploring Mycobacterial avium inhibition by macrocyclic compounds*, Suzana David, Vanessa Barros, Krassimira P. Guerra, Rita Delgado, *Res. Microbiol.*, 2005, **156**, 904-910.
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 69. *13- and 14-membered macrocyclic ligands containing methylcarboxylate or methylphosphonate pendant arms: Chemical and biological evaluation of their ¹⁵³Sm and ¹⁶⁶Ho complexes as potential agents for therapy or bone pain palliation*, Fernanda Marques, Lurdes Gano, M. Paula Campello, Sara Lacerda, Isabel Santos, Luís M. P. Lima, Judite Costa, Patrícia Antunes, Rita Delgado, *J. Inorg. Biochem.*, 2006, **100**, 270-280.
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 71. *New Dioxadiaz-, trioxadiaz- and hexaaza-macrocyclics containing dibenzofuran units*, Feng Li, Rita Delgado, Ana Coelho, Michael G. B. Drew, Vítor Félix, *Tetrahedron*, 2006, **62**, 8550-8558.
 72. *Bis- and tris-(3-aminopropyl) derivatives of 14-membered tetraazamacrocyclics containing pyridine: synthesis, protonation and complexation studies*, Krassimira P. Guerra, Rita Delgado, Michael G. B. Drew, Vítor Félix, *Dalton Trans.*, 2006, 4124-4133.
 73. *Dioxadiaz- and trioxadiaz- macrocyclics containing one dibenzofuran unit selective for cadmium*, F. Li, R. Delgado, M. G. B. Drew, V. Félix, *Dalton Trans.*, 2006, 5396-5403.
 74. *New dioxadiaz- and trioxadiaz- macrocyclic receptors containing one dibenzofuran unit with two amino pendant arms: synthesis, protonation and complexation studies*, Feng Li, Li Li, Rita Delgado, Michael G. B. Drew, Vítor Félix, *Dalton Trans.*, 2007, 1316-1324.
 75. *Copper complexes of new benzodioxotetraaza macrocyclics with potential application in nuclear medicine*, Patrícia Antunes, Rita Delgado, Michael G. B. Drew, Vítor Félix, Helmut

- Maecke, *Inorg. Chem.*, 2007, **46**, 3144-3153.
76. *Metal complexes of cyclen and cyclam derivatives useful for medical applications: a discussion based on thermodynamic stability constants and structural data*, Rita Delgado, Vítor Félix, Luís M. P. Lima, David W. Price, *Dalton Perspective, Dalton Trans.*, 2007, 2734-2745.
 77. *Evaluation of the binding ability of a novel dioxatetraazamacrocyclic receptor containing two phenanthroline units: selective uptake of carboxylate anions*, Carla Cruz, Rita Delgado, Michael G. B. Drew, Vítor Félix, *J. Org. Chem.*, 2007, **72**, 4023-4034.
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