

## Curriculum Vitae – António Portugal



**Name** Antonio Alberto Torres Garcia Portugal

**Position** Retired Associate Professor

**Qualifications** PhD in Chemical Engineering, University of Aston, Birmingham, 1984  
MSc in Chemical Process Development, University of Asto, Birmingham, 1977  
Diploma in Chemical Engineering, University of Coimbra, 1976

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**Teaching activities** Modelling, Simulation and Optimization  
Energy and Biofuels

**Research group** [Computation and Materials \(CeM\)](#)  
Nanomaterials - Sol-Gel

**Research interests** Energy - Biofuels and Detonics  
Modeling and Numerical Methods in Chemical and Paper Engineering  
Project FP7-PEOPLE-2010-ITN MANANO - Manufacturing and Applications of Nanostructured Materials (2011-2014).  
Projecto I&D PTDC/EQU-EPR/099998/2008 GelSpace - Aerogéis à Base de Sílica para Isolamento de Dispositivos Espaciais (2011-2014).

**Funded research projects** Projecto I&D PTDC/EQU-EPR/114354/2009 Nanohybrid - Preparação de nanoparticulas hibridas magnéticas funcionalizadas por "self-assembly" de copolímeros ABCDE para coatings de elevada performance (2011-2014).  
Projecto PTDC/EQU-EPR/099226/2008 - Development of new polymer-liposome complexes combining experimental and computational approaches (2010-2013).  
Projecto QREN 5498 AerTPS - Sistemas de Protecção Térmica com Base em Aerogel (2009-2012).  
Durães, L., Ochoa, M., Rocha, N., Hernandez, J., Duarte, N., Redondo, V., Portugal, A., "Effect of the Drying Conditions on the Microstruture of Silica Based Xerogels/Aerogels", Journal of Nanoscience and Nanotechnology, 12(8):6828-34 (2011).

**Key publications** Durães, L., Oliveira, O., Benedini, L., Costa, B. F. O., Matos Beja, A., Portugal, A., "Sol-Gel Synthesis of Iron(III) Oxyhydroxide Nanostructured Monoliths Using Fe(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O/CH<sub>3</sub>CH<sub>2</sub>OH/NH<sub>4</sub>OH Ternary System", Journal of Physics and Chemistry of Solids, 72(6):678-684 (2011).

Conceição, E.L.T., & Portugal, A.A.T.G. "Finite-sample comparison of robust estimators for non-linear regression using Monte Carlo simulation: Part I. Univariate response models.", *Computers and Chemical Engineering*, 35(3):530-544 (2011).

J.M.R. Curto, E.L.T. Conceição, A.T.G. Portugal, R.M.S. Simões "Three dimensional modelling of fibrous materials and experimental validation", *Material Science and Engineering Technology*, 42(5):370-374 (2011).

Paulo Brito, António Portugal "Adaptive Collocation Methods for the Solution of Partial Differential Equations" in *Innovations in Computing Sciences and Software Engineering*, DOI 10.1007/978-90-481-9112-3\_85, T. Sobh, K. Elleithy (eds.), Springer Science+Business Media B.V (2010).

Paulo Brito, "Adaptive Numerical Methods for Multidimensional Chemical Engineering Models", Ph.D Thesis, Department of Chemical Engineering, University of Coimbra, (2011).

Ricardo Nóbrega, "Síntese de Xerogéis à Base de Sílica Utilizando o Precursor Dimetildimetoxisilano", Master thesis. Department of Chemical Engineering, University of Coimbra, (2011).

**Theses  
supervision**

Agostinho Manuel dos Reis Carrondo Alexandre, "Biodiesel Production from extracted *Cynara cardunculus* L. oil", Master thesis. Department of Botanic and Chemical Engineering, University of Coimbra, (2010).

Ana Isabel Garrido Moura, "Estudo comparativo de métodos para a produção de biodiesel", Master Thesis, Department of Chemical Engineering, University of Coimbra, (2010).

Marta Ochoa, "Síntese de Xerogéis e Aerogéis à Base de Sílica Utilizando o Precursor Etiltrimetoxisilano (ETMS)", Master thesis. Department of Chemical Engineering, University of Coimbra, (2009).

**Other  
information**

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