

CURRICULUM VITAE

1. Family name: MESTRE

2. First name: ANA SOFIA

3. Date of birth: 17/11/1980

4. Nationality: PORTUGAL

5. Place of residence: LISBON, PORTUGAL

6. Education (most recent first):

Univ. Lisbon, Portugal (2005-2010) – PhD (Chemistry-Technological Chemistry)

Univ. Lisbon, Portugal (2005) – Doctoral program (Analytical Chemistry)

Univ. Lisbon, Portugal (1998-2003) – Licenciatura “Graduation” (Chemistry)

7. Language Skills: competence on a scale of 1 to 5 (1 excellent - 5 basic) Language: Reading-Speaking-Writing.

Portuguese (native): 1-1-1; English: 1-2-2; Spanish 1-2-3

8. Membership of professional bodies:

Portuguese Chemistry Society (SPQ), Spanish Carbon Group (GEC).

9. Other skills (e.g. Computer literacy, etc.):

Expert reviewer of more than 10 peer-reviewed scientific journals, namely, Journal of Materials Chemistry A, Carbon, Science of the Total Environment, Chemical Engineering Journal, RSC Advances

10. Present position:

Post-doc researcher at Sciences Faculties of Lisbon and Oporto Universities

11. Years within the organization:

10 years (2005-present)

12. Key qualifications/skills (relevant to the assignment):

Near 10 year of experience in the preparation, characterization and application of carbon materials as adsorbents in both gas and liquid phase. One of the main research areas is focused in the synthesis of activated carbons by chemical and physical activation of renewable lignocellulosic residues and more recently in the use of hydrothermal carbonization to obtain carbon materials (hydrochars) that can be further activated to develop their porous structure. Traditional and innovative methodologies have been evaluated. Textural characterization by adsorption, morphological and surface chemistry characterization. The second research area relates with the application of the developed adsorbents and also commercial activated carbons to liquid phase adsorption of pharmaceutical compounds (e.g. ibuprofen, acetylsalicylic acid, acetaminophen, clofibric acid, caffeine, iopamidol) and evaluation of the effect of experimental parameters (solution pH, ionic strength). More recently, the nanoporous carbons prepared have been also assayed for methane storage and biogas purification.

13. Specific experience (most recent first)

Member of the team in funded EU project of LIFE program "Improving current barriers for controlling pharmaceutical compounds in urban wastewater treatment plants" Financed by European Commission (Brussels, Belgium), January 1st 2016 to June 31st 2019 (Coordinator: Maria João Rosa)

Entrepreneurship and technology commercialization training by the COHiTEC program (COTEC) within the InovCarbon team "Innovative manufacture of activated carbons using biomass residues" that was selected by the assessment panel (PT&US jury) to an intensive training in entrepreneurship and technology commercialization (18 weeks and monthly meetings with teachers from North Carolina State University and Brown University) that finished on July 2015 with a public presentation to potential investors (<https://www.actbycotec.com/en/portfolio.78/projects.114/cohitec.125/inovcarbon.a669.html>).

One project (QREN 5532 – WaterCork: Valorization of cork by-products for the removal of organic contaminants in aqueous media (Jan. 2010- Mars. 2013)) was developed in a consortium with a Portuguese company world leader in the cork industry and two other I&D institutions. The work developed was partially presented orally in the World Carbon Conference in 2013 (Rio de Janeiro, Brazil), was published in Chemical Engineering Journal in 2014 and the process developed to obtain activated carbons from cork by-products was recently patented.

Participant investigator in 5 projects.

14. Professional experience record (most recent experience)

Teaching experience

Laboratorial and Exercises Classes of General Chemistry I and II in 2014 and 2015

Seminar for PhD students in 2013 in Faculdade Nova da Universidade de Lisboa (Pharmaceutical compounds in aquatic environment: Occurrence and water treatment technologies)

Master class in 2011 in Instituto Superior de Engenharia de Lisboa (ISEL) about activated carbons and their use for removal of liquid phase pollutants

Supervision

Supervisor of 1 research training project and 3 MSc thesis. Actually supervising 2 research training projects. All the works supervised were focused on the preparation and characterization of nanoporous carbons as well as on the evaluation of the lab-made and commercial samples as adsorbents of emergent pollutants, namely pharmaceutical compounds, from liquid phase processes.

Jury

Main arguer in 2 MSc thesis

15. Awards and Honours

Best Poster Prize in the 10th Inorganic Chemistry Conference of the Portuguese Chemical Society in 2014 for the work entitled: Ana S. Mestre, Cristina Freire, Ana P. Carvalho, From sucrose to activated carbon microspheres: Supports for nanosized metal oxides photocatalysts, 10th Inorganic Chemistry Conference of the Portuguese Chemical Society, Costa da Caparica (Portugal) 11 and 12 April 2014.

16. Other relevant information (e.g. Publications, Patents, Other education, Seminars, lectures attended, Scholarships received)

Scholarships received

Jan2013- present - Post-doc grant (FCT) Fac. Sciences, Universities of Lisbon and Oporto (Portugal)

May2010-Oct2012- Post-doc Researcher in a project with industry Amorim Isolamentos S.A. (QREN-5523-Watercork) Fac. Sciences, University of Lisbon (Portugal)

Jan2005- Dec2008 – PhD grant (FCT) Fac. Science of Lisbon University (Portugal)

Summary of Scientific Achievements

ResearcherID C-5010-2008

Scopus Author ID 6602567104

ORCID 0000-0001-5251-4773

- 24 articles in SCI journals (H index 13, N° Cites 473, 271 documents)
- Average citations per item 19.7
- Accumulated Impact Factor 90.78
- Mean Impact Factor 3.78
- 50% in Top 10 (12/24)
- 83% in Q1 (20/24)
- 12.5% as correspondent author (3/24)
- 37.5% as first author (9/24)

- 2 book chapters
- 2 patents;
- 22 proceedings
- 5 projects as participant
- 1 Invited keynote in an International conference
- 20 oral + 66 poster communications in International conferences

Articles in SCI journals

- 1) **A.S. Mestre***, E. Tyszko, M.A. Andrade, M. Galhetas, C. Freire, A.P. Carvalho, Sustainable activated carbons prepared from a sucrose-derived hydrochar: remarkable adsorbents for pharmaceutical compounds, *RSC Advances*, 5 (2015) 19696-19707. (*Correspondent Author)
- 2) Ana M. Galhetas, Marta A. Andrade, **Ana S. Mestre**, Ekoe Kangni-fofi, M.V. Brito, Moisés L. Pinto, Helena Lopes, Ana P. Carvalho, Influence of activated carbons textural properties on acetaminophen adsorption at different temperatures, *Physical Chemistry Chemical Physics*, 17 (2015) 12340-12349.
- 3) M. Galhetas, **A.S. Mestre**, M.L. Pinto, I. Gulyurtlu, H. Lopes, A.P. Carvalho, Chars from gasification of coal and pine activated with K₂CO₃: Acetaminophen and caffeine adsorption from aqueous solutions, *Journal of Colloid and Interface Science*, 433 (2014) 94-103.
- 4) **A.S. Mestre***, R.A. Pires, I. Aroso, E.M. Fernandes, M.L. Pinto, R.L. Reis, M.A. Andrade, J. Pires, S.P. Silva, A.P. Carvalho, Activated carbons prepared from industrial pre-treated cork: Sustainable

adsorbents for pharmaceutical compounds removal, *Chemical Engineering Journal*, 253 (2014) 408-417. (*Correspondent Author)

- 5) **A.S. Mestre**, M. Machuqueiro, M. Silva, R. Freire, I.M. Fonseca, M.S.C.S. Santos, M.J. Calhorda, A.P. Carvalho, Influence of activated carbons porous structure on iopamidol adsorption, *Carbon*, 77 (2014) 607-615.
- 6) M.A. Andrade, R.J. Carmona, **A.S. Mestre**, J. Matos, A.P. Carvalho, C.O. Ania, Visible light driven photooxidation of phenol on TiO₂/Cu-loaded carbon catalysts, *Carbon*, 76 (2014) 183-192.
- 7) M. Galhetas, **A.S. Mestre**, M.L. Pinto, I. Gulyurtlu, H. Lopes, A.P. Carvalho, Carbon-based materials prepared from pine gasification residues for acetaminophen adsorption, *Chemical Engineering Journal*, 240 (2014) 344-351.
- 8) **A.S. Mestre***, C. Freire, J. Pires, A.P. Carvalho, M.L. Pinto, High performance microspherical activated carbons for methane storage and landfill gas or biogas upgrade, *Journal of Materials Chemistry A*, 2 (2014) 15337-15344. (*Correspondent Author)
- 9) M. Andrade, J.B. Parra, M. Haro, **A.S. Mestre**, A.P. Carvalho, C.O. Ania, Characterization of the different fractions obtained from the pyrolysis of rope industry waste, *Journal of Analytical and Applied Pyrolysis*, 95 (2012) 31-37.
- 10) A.F.P. Goncalves, N.R. Neng, **A.S. Mestre**, A.P. Carvalho, J.M.F. Nogueira, Development of a Powdered Activated Carbon in Bar Adsorptive Micro-Extraction for the Analysis of Morphine and Codeine in Human Urine, *Journal of Chromatographic Science*, 50 (2012) 574-581.
- 11) M. Haro, B. Ruiz, M. Andrade, **A.S. Mestre**, J.B. Parra, A.P. Carvalho, C.O. Ania, Dual role of copper on the reactivity of activated carbons from coal and lignocellulosic precursors, *Microporous and Mesoporous Materials*, 154 (2012) 68-73.
- 12) **A.S. Mestre**, S.C.R. Marques, A.P. Carvalho, Effect of the Alcohol Cosolvent in the Removal of Caffeine by Activated Carbons, *Industrial & Engineering Chemistry Research*, 51 (2012) 9850-9857.
- 13) N.R. Neng, **A.S. Mestre**, A.P. Carvalho, J.M.F. Nogueira, Cork-based activated carbons as supported adsorbent materials for trace level analysis of ibuprofen and clofibric acid in environmental and biological matrices, *Journal of Chromatography A*, 1218 (2011) 6263-6270.
- 14) **A.S. Mestre**, A.S. Bexiga, M. Proenca, M. Andrade, M.L. Pinto, I. Matos, I.M. Fonseca, A.P. Carvalho, Activated carbons from sisal waste by chemical activation with K₂CO₃: Kinetics of paracetamol and ibuprofen removal from aqueous solution, *Bioresource Technology*, 102 (2011) 8253-8260.
- 15) N.R. Neng, **A.S. Mestre**, A.P. Carvalho, J.M.F. Nogueira, Powdered activated carbons as effective phases for bar adsorptive micro-extraction (BA μ E) to monitor levels of triazinic herbicides in environmental water matrices, *Talanta*, 83 (2011) 1643-1649.
- 16) I. Cabrita, B. Ruiz, **A.S. Mestre**, I.M. Fonseca, A.P. Carvalho, C.O. Ania, Removal of an analgesic using activated carbons prepared from urban and industrial residues, *Chemical Engineering Journal*, 163 (2010) 249-255.
- 17) B. Ruiz, I. Cabrita, **A.S. Mestre**, J.B. Parra, J. Pires, A.P. Carvalho, C.O. Ania, Surface heterogeneity effects of activated carbons on the kinetics of paracetamol removal from aqueous solution, *Applied Surface Science*, 256 (2010) 5171-5175.
- 18) M.L. Pinto, **A.S. Mestre**, A.P. Carvalho, J. Pires, Comparison of methods to obtain micropore size distributions of carbonaceous materials from CO₂ adsorption based on the Dubinin-Radushkevich isotherm, *Industrial & Engineering Chemistry Research*, 49 (2010) 4726-4730.
- 19) **A.S. Mestre**, M.L. Pinto, J. Pires, J.M.F. Nogueira, A.P. Carvalho, Effect of solution pH on the removal of clofibric acid by cork-based activated carbons, *Carbon*, 48 (2010) 972-980.

- 20) **A.S. Mestre**, J. Pires, J.M.F. Nogueira, J.B. Parra, A.P. Carvalho, C.O. Ania, Waste-derived activated carbons for removal of ibuprofen from solution: Role of surface chemistry and pore structure, *Bioresource Technology*, 100 (2009) 1720-1726.
- 21) B. Cardoso, **A.S. Mestre**, A.P. Carvalho, J. Pires, Activated carbon derived from cork powder waste by KOH activation: Preparation, characterization, and VOCs adsorption, *Industrial & Engineering Chemistry Research*, 47 (2008) 5841-5846.
- 22) **A.S. Mestre**, J. Pires, J.M.F. Nogueira, A.P. Carvalho, Activated carbons for the adsorption of ibuprofen, *Carbon*, 45 (2007) 1979-1988.
- 23) A.P. Carvalho, **A.S. Mestre**, J. Pires, M.L. Pinto, M.E. Rosa, Granular activated carbons from powdered samples using clays as binders for the adsorption of organic vapours, *Microporous and Mesoporous Materials*, 93 (2006) 226-231.
- 24) A.P. Carvalho, M. Gomes, **A.S. Mestre**, J. Pires, M.B. de Carvalho, Activated carbons from cork waste by chemical activation with K₂CO₃. Application to adsorption of natural gas components, *Carbon*, 42 (2004) 672-674.

Book chapters

- 1) A.P. Carvalho, **A.S. Mestre**, M. Andrade, C.O. Ania, Ibuprofen in the Aquatic Environment: Occurrence, ecotoxicity and water remediation technologies, in: W.C. Carter, B.R. Brown (Eds.) *Ibuprofen: Clinical pharmacology, medical uses and adverse effects*, Nova Science Publishers, 2013, pp. 1-84.
- 2) A.P. Carvalho, **A.S. Mestre**, M. Haro, C.O. Ania, Advanced methods for the removal of acetaminophen from water, in: A. Javaherian, P. Latifpour (Eds.) *Acetaminophen: Properties, clinical uses and adverse effects*, Nova Science Publishers, 2012, pp. 57-105.

Patents

- 1) N.R. Neng, **A.S. Mestre**, A.P. Carvalho, J.M.F. Nogueira, "Aplicação de carvões activados para revestimento externo de micro-colectores usados como método para extracção vestigial de substâncias polares." National Patent Request 20091000114219.
- 2) S.P. Martins, **A.S. Mestre**, A.P. Carvalho, P.B. Correia, Processo de produção de carvão activado a partir de material de cortiça." Applicant Amorim Isolamentos, S.A., 13 November 2012. PT 106637 B

Proceedings

- 1) Carina Menezes, Silvia José, Paulo Pereira, Susana P. Silva, Ana P. Carvalho, **Ana S. Mestre**, Removal of microcystin-LR by cork-based and commercial activated carbons, International Carbon Conference – Carbon2015, Dresden (Germany), 12-17 July 2015
- 2) Marta A. Andrade, **Ana S. Mestre**, Conchi O. Ania, Ana P. Carvalho, Biomass-derived activated carbons: promising green materials for environmental remediation, International Carbon Conference – Carbon2015, Dresden (Germany), 12-17 July 2015
- 3) P. Sarahi De Velasco, **Ana S. Mestre**, V. Hernández, Ana P. Carvalho, Biomass conversion into carbon biosorbents, International Carbon Conference – Carbon2015, Dresden (Germany), 12-17 July 2015

- 4) Susana C. Marques, Jossano S. Marcuzzo, **Ana S. Mestre**, Ricardo Dias, Conchi O. Ania, Ana P. Carvalho, Adsorption of pharmaceutical compounds on carbons of different morphologies, International Carbon Conference – Carbon2015, Dresden (Germany), 12-17 July 2015
- 5) Ana P. Carvalho, Ana S. Moreira, Catarina Oliveira, Cristina Freire, Conchi O. Ania, **Ana S. Mestre**, Nanoporous carbons obtained by hydrothermal carbonization of carbohydrates and eutectic salt mixtures, International Carbon Conference – Carbon2015, Dresden (Germany), 12-17 July 2015
- 6) **Ana S. Mestre**, Cristina Freire, Conchi Ania, Ana P. Carvalho, Preparation of spherical nanoporous carbons by K₂CO₃ activation of biomass acid liquors derived chars, International Carbon Conference – Carbon2015, Dresden (Germany), 12-17 July 2015
- 7) Margarida Galhetas, Marta A. Andrade, **Ana S. Mestre**, Ekoé Kangni-foli, Moisés L. Pinto, Helena Lopes, Ana P. Carvalho, The role of texture on the adsorption of acetaminophen at different temperatures, International Carbon Conference – Carbon2015, Dresden (Germany), 12-17 July 2015
- 8) Marta Andrade, **Ana S. Mestre**, Nuno Lapa, Benilde Mendes, Ana P. Carvalho, Conchi O. Ania, Pharmaceutical Compounds Photocatalytic Degradation by TiO₂/Carbon Composites: Ecotoxicity Risk Assessment. International Carbon Conference – Extended Abstracts, Carbon2014, Jeju (Korea), 29 June to 4 July **2014**
- 9) Margarida Galhetas, **Ana S. Mestre**, Helena Lopes, A.P. Carvalho, Activated carbons prepared from fly ash produced from gasification of pine. International Carbon Conference – Extended Abstracts, Carbon2013, Rio de Janeiro (Brazil), 14-19 July **2013**
- 10) Marta Andrade, **Ana S. Mestre**, Juan Matos, Ana P. Carvalho, Conchi O. Ania, Phenol photocatalytic degradation by TiO₂/Cu-doped carbon composites. International Carbon Conference – Extended Abstracts, Carbon2013, Rio de Janeiro (Brazil), 14-19 July **2013** (Mrozowski Award for the Best Oral Presentation by Marta Andrade - American Chemical Society)
- 11) Mariline Silva, Ruben Freire, Isabel M. Fonseca, Maria J. Calhorda, **Ana S. Mestre**, Ana P. Carvalho, Adsorption of iopamidol onto lab-made and commercial activated carbons. International Carbon Conference – Extended Abstracts, Carbon2013, Rio de Janeiro (Brazil), 14-19 July **2013**
- 12) **Ana S. Mestre**, Ricardo A. Pires, Ivo Aroso, Emanuel Fernandes, Rui L. Reis, Susana P. Silva, Ana P. Carvalho, Cork-based activated carbons for pharmaceutical compounds removal. International Carbon Conference – Extended Abstracts, Carbon2013, Rio de Janeiro (Brazil), 14-19 July **2013**
- 13) Marta Andrade, **Ana S. Mestre**, Marta Haro, Ana P. Carvalho, Conchi O. Ania, Copper doped carbons for environmental remediation. International Carbon Conference – Extended Abstracts, Carbon2012, Krakow (Poland) 17-22 June 2012
- 14) Maria M. Diaz, Patrick L. Figueiredo, Isabel M. Fonseca, **Ana S. Mestre**, Ana P. Carvalho, Lignocellulosic-based activated carbons for ibuprofen adsorption. International Carbon Conference – Extended Abstracts, Carbon2012, Krakow (Poland) 17-22 June 2012
- 15) Patrick L. Figueiredo, Maria M. Diaz, Isabel M. Fonseca, **Ana S. Mestre**, Ana P. Carvalho, Effect of water hardness on clofibric acid adsorption onto activated carbons. International Carbon Conference – Extended Abstracts, Carbon2012, Krakow (Poland) 17-22 June 2012
- 16) Margarida Galhetas, **A. S. Mestre**, H. Lopes, I. Gulyurtlu, A. P. Carvalho, Chemical Activation of Char Residues Produced by Co-gasification of Coal and Pine. International Carbon Conference – Extended Abstracts, Carbon2012, Krakow (Poland) 17-22 June 2012
- 17) **A.S. Mestre**, N.R. Neng, J. Pires, J.M.F. Nogueira, A.P. Carvalho, Cork-based activated carbons as enrichment materials for analysis of ibuprofen and clofibric acid at trace levels in environmental matrices. International Carbon Conference – Extended Abstracts, Carbon2009, Biarritz (France), 14-19 June 2009

- 18) A.S. Bexiga, **A.S. Mestre**, I.M. Fonseca, A.P. Carvalho, Activated carbons prepared by chemical activation of sisal with K₂CO₃. International Carbon Conference – Extended Abstracts, Carbon2009, Biarritz (França), 14-19 June 2009
- 19) N.R. Neng, **A.S. Mestre**, A.P. Carvalho, J.M.F. Nogueira, Powdered activated carbon as new adsorptive extraction materials to control levels of triazinic herbicides in water matrices. International Carbon Conference – Extended Abstracts, Carbon2009, Biarritz (França), 14-19 June 2009
- 20) A.R.M. Silva, **A.S. Mestre**, A.P. Carvalho, J.M.F. Nogueira, Activated carbon for adsorptive extraction of caffeine and acetaminophen in environmental matrices. International Carbon Conference – Extended Abstracts, Carbon2009, Biarritz (França), 14-19 June 2009
- 21) C.C. Rodrigues, S.W. Nobrega, A.S. Bexiga, I. Matos, S. Lyubchik, **A.S. Mestre**, A.P. Carvalho, I.M. Fonseca, Removal of organic pollutants on activated carbon obtained from agricultural residues. International Carbon Conference – Extended Abstracts, Carbon2009, Biarritz (França), 14-19 June 2009
- 22) Ana P. Carvalho, **Ana S. Mestre**, Raquel Gomes, João Pires, Chemically activated carbons from cork waste for o-dichlorobenzene adsorption. International Carbon Conference – Extended Abstracts, Carbon 2006, Aberdeen (Scotland) – 16-21 July 2006

Invited keynote in an International conference

Ana S. Mestre, Emil Tyszko, Marta A. Andrade, Margarida Galhetas, Cristina Freire, Ana P. Carvalho, Sucrose-derived activated carbons with remarkable adsorption capacity for pharmaceutical compounds, XXXIX-RIA Reunión Ibérica de Adsorción, Baeza (Spain), 14-17 September **2014**

Oral communications in International conferences

- 1) **Ana S. Mestre**, Ana S. Moreira, Catarina Oliveira, Cristina Freire, Conchi O. Ania, Ana P. Carvalho, Effect of carbohydrate unit in the preparation of nanoporous carbons using eutectic salt mixtures, XIII Reunión del Grupo Español del Carbón, Alicante (Spain), October 18-21, **2015** (Accepted)
- 2) Ana P. Carvalho, Ana S. Moreira, Catarina Oliveira, Cristina Freire, Conchi O. Ania, **Ana S. Mestre**, Nanoporous carbons obtained by hydrothermal carbonization of carbohydrates and eutectic salt mixtures, International Carbon Conference – Carbon2015, Dresden (Germany), July, 12-17, **2015**
- 3) **Ana S. Mestre**, Cristina Freire, Conchi Ania, Ana P. Carvalho, Preparation of spherical nanoporous carbons by K₂CO₃ activation of biomass acid liquors derived chars, International Carbon Conference – Carbon2015, Dresden (Germany), 12-17 July **2015**
- 4) Margarida Galhetas, Marta A. Andrade, **Ana S. Mestre**, Ekoé Kangni-foli, Moisés L. Pinto, Helena Lopes, Ana P. Carvalho, The role of texture on the adsorption of acetaminophen at different temperatures, International Carbon Conference – Carbon2015, Dresden (Germany), 12-17 July **2015**
- 5) Margarida Galhetas, **Ana S. Mestre**, Moisés L. Pinto, Helena Lopes, Ana P. Carvalho, Coal and pine gasification chars as precursors of porous carbons; acetaminophen and caffeine adsorption, XXXIX-RIA Reunión Ibérica de Adsorción, Baeza (Spain), 14-17 September **2014**
- 6) Marta A. Andrade, **Ana S. Mestre**, Conchi O. Ania, Ana P. Carvalho, Sisal-derived hydrochars as precursors of carbons with superior properties for caffeine adsorption, XXXIX-RIA Reunión Ibérica de Adsorción, Baeza (Spain), 14-17 September **2014**
- 7) **Ana S. Mestre**, Cristina Freire, João Pires, Ana P. Carvalho, Moisés L. Pinto, High performance microspherical activated carbons for methane storage and upgrade, XXXIX-RIA Reunión Ibérica de Adsorción, Baeza (Spain), 14-17 September **2014**
- 8) Marta A. Andrade, **Ana Sofia Mestre**, Nuno Lapa, Benilde Mendes, Conchi O. Ania, Ana Paula Carvalho, Photocatalytic degradation of pharmaceutical compounds by TiO₂: An ecotoxicity assessment, 10th

Inorganic Chemistry Conference of the Portuguese Chemical Society, Costa da Caparica (Portugal) April 11-12, **2014** (Flash Communication also presented as a Poster)

- 9) Marta Andrade, **Ana S. Mestre**, Ana P. Carvalho, Conchi O. Ania, TiO₂/Cu-doped carbon composites as catalysts for phenol photodegradation, XII Reunión del Grupo Español del Carbón, Madrid (Spain), 20-23 October **2013**
- 10) André Nabiço, Patrick L. Figueiredo, Isabel M. Fonseca, Ana P. Carvalho, **Ana S. Mestre**, Clofibric acid adsorption process onto carbons: Effect of pH and water hardness, XII Reunión del Grupo Español del Carbón, Madrid (Spain), 20-23 October **2013**
- 11) **A.S. Mestre**, C. Freire, A.P. Carvalho, Ecocarbons: hydrothermal carbonization of carbohydrates. XXXIV Reunión Bienal Real Sociedad Española de Química - BQS2013, Santander (Spain), 15-18 September **2013**
- 12) Margarida Galhetas, **Ana S. Mestre**, Helena Lopes, A.P. Carvalho, Activated carbons prepared from fly ash produced from gasification of pine. International Carbon Conference – Carbon2013, Rio de Janeiro (Brazil), 14-19 July **2013**
- 13) Marta Andrade, **Ana S. Mestre**, Juan Matos, Ana P. Carvalho, Conchi O. Ania, Phenol photocatalytic degradation by TiO₂/Cu-doped carbon composites. International Carbon Conference – Carbon2013, Rio de Janeiro (Brazil), 14-19 July **2013** (Mrozowski Award for the Best Oral Presentation by Marta Andrade - American Chemical Society)
- 14) Mariline Silva, Ruben Freire, Isabel M. Fonseca, Maria J. Calhorda, **Ana S. Mestre**, Ana P. Carvalho, Adsorption of iopamidol onto lab-made and commercial activated carbons. International Carbon Conference – Carbon2013, Rio de Janeiro (Brazil), 14-19 July **2013**
- 15) **Ana S. Mestre**, Ricardo A. Pires, Ivo Aroso, Emanuel Fernandes, Rui L. Reis, Susana P. Silva, Ana P. Carvalho, Cork-based activated carbons for pharmaceutical compounds removal. International Carbon Conference – Carbon2013, Rio de Janeiro (Brazil), 14-19 July **2013**
- 16) S. Marques, M. Pacheco, **A.S. Mestre**, R. Dias, A.P. Carvalho, Simultaneous removal of Escherichia coli and caffeine by activated carbons: effect of surface chemistry. 37th Iberian Adsorption Meeting - XXXVII RIA, Sevilla (Spain), 12-14 September **2012**
- 17) **A.S.Mestre**, M.L. Pinto, J. Pires, J.M.F. Nogueira, A.P. Carvalho, Effect of solution pH on the removal of clofibric acid by cork-based activated carbons. XI Reunión del Grupo Español del Carbon (GEC), Badajoz (Spain), 23-26 October **2011**
- 18) **Ana S. Mestre**, Susana C.R. Marques, Ana P. Carvalho, Removal of caffeine by activated carbons. 4th International Conference on Carbons for Energy Storage and Environment Protection - CESEP'11, Vichy (France) 25-29 September **2011**
- 19) **A.S. Mestre**, José M.F. Nogueira, João Pires, Ana P. Carvalho, Activated carbons for adsorption of clofibric acid. 1st PYCheM, Lisboa (Portugal), 15-17 October **2008**
- 20) **Ana S. Mestre**, João Pires, José M.F. Nogueira, Jose B. Parra, Ana P. Carvalho, Conchi O. Ania, Adsorção de ibuprofeno em solução aquosa em carvões activados preparados a partir de desperdícios. XXXIII RIA, Madrid (Spain), 22-24 September **2008**