

# Jorge Costa

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## WORK EXPERIENCE

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### **ADJUNCT PROFESSOR – INSTITUTO SUPERIOR DE EDUCAÇÃO E CIÊNCIAS – 09/2017 – TO DATE**

Alameda das Linhas de Torres,179, 1750-142 Lisboa Portugal

Duties:

- Degree coordinator – Renewable Energies and Environment
- Steering Committee of IETS Task XI – Industry-based biorefineries towards sustainability, an IEA TCP
- Co-Management of Task XI, Sub-Task 3 – Circular Bioeconomy and Biomass-Oriented Industrial Symbiosis
- Vice-President of the Scientific Council 2020-2022, 2022-2024 and 2024-2026
- Lecturing the following courses:
  - Physics 1
  - Physics 2
  - Applied Thermodynamics
  - Bioenergy
  - Earth Energy Dynamics
  - Technical Drawing
  - Research Project

### **POSTDOCTORAL FELLOW – UNIVERSIDADE NOVA DE LISBOA – 02/2018 – 12/2019**

METRICS – MECHANICAL ENGINEERING AND RESOURCE SUSTAINABILITY CENTER / DEPARTMENT OF SCIENCES AND TECHNOLOGY OF BIOMASS

Quinta da Torre, 2829-516 Caparica, Portugal

Duties:

- Researcher in EU-funded research project MAGIC, Marginal lands for Growing Industrial Crops: Turning a burden into an opportunity ID: 727698;
- Researcher in EU-funded research project BIOREG, Absorbing the Potential of Wood Waste in EU Regions and Industrial Bio-based Ecosystems ID: 727958;
- Researcher in EU-funded research project PANACEA, A thematic network to design the penetration Path of Non-food Agricultural Crops into European Agriculture ID: 773501.

### **VOLUNTEER RESEARCHER – UNIVERSIDADE NOVA DE LISBOA – 10/2012 – 12/2016**

METRICS – MECHANICAL ENGINEERING AND RESOURCE SUSTAINABILITY CENTER / DEPARTMENT OF SCIENCE AND TECHNOLOGY OF BIOMASS

Quinta da Torre, 2829-516 Caparica, Portugal

Duties:

- EU-funded OPTIMA research project participation
- R&D in phytoremediation
- Wastewater sampling and treatment
- Biomass characterization
- Socio-economic and environmental assessment of energy crops
- Soil decontamination
- Heavy metals
- Marginal land usage
- Water efficiency
- Soil and water sustainability
- Crop culture and maintenance
- Physical and chemical laboratory analysis

## **FREELANCE PHOTOGRAMMETRY SURVEYOR – MACPC, LDA. – 01/2015 - 12/2015**

Rua Comandante Gika, 14 Luanda, Angola

Duties:

- UAV photogrammetric mapping in Angola (Luanda, Funda, Mabubas, Ambriz, Menongue, Lubango, Namibe and Benguela)

## **ENVIRONMENTAL ENGINEERING MASTER PROGRAMME COORDINATOR – UNIVERSIDADE LUSÓFONA – 11/2010 - 11/2013**

Campo Grande, 376 Lisboa, Portugal

Duties:

- Management of all activities related to scheduling, start-up and running of each school year
- Management regarding the accreditation and evaluation degree and MSc in Environmental Engineering
- Management of Environmental Engineering Degree to the Portuguese Professional Body accreditation process
- Participation in all scientific, pedagogic and faculty meetings, including preparation and secretariat

## **INVITED ASSISTANT PROFESSOR – UNIVERSIDADE NOVA DE LISBOA – 12/2010 - 01/2013**

Quinta da Torre, 2829-516 Caparica, Portugal

Duties:

- Lecture Toxicology at the post-graduation and MSc in Hygiene and Safety Technician (NEBOSH certification)

## **INVITED ASSISTANT PROFESSOR – UNIVERSIDADE LUSÓFONA – 10/2000 - 11/2013**

Campo Grande, 376, 1749-024 Lisboa, Portugal

Duties:

- Lecture the following disciplines (including laboratory practice):
  - Environmental Pollution (2000-2006)
  - Biological Wastewater Treatment (2001-2007)
  - Water Pollution (2002-2006)
  - Water Ecology (2002-2007)
  - Ecotoxicology (2001-2013)
  - General Ecology (2006-2013)
  - Noise Pollution (2007-2013)
  - Separation Processes (2007-2008)
  - Climatology (2008-2013)
  - Environmental Biogeochemistry (2010-2011)
  - Environmental Impact Assessment (2011-2012)
  - Industrial Solid Wastes (2011-2013)
  - Water, Wastewater and Solid Waste Treatment (2012-2013)
  - General Microbiology (2009-2013)
  - Characterization and Treatment of Water and Wastewater (2012-2013)
  - Sustainable Development and Energy Management (2012-2013)
- Supervising and mentoring undergraduate students and MSc students

## **LECTURER – PORTUGUESE CATHOLIC UNIVERSITY – 06/2008 - 07/2009**

Estrada Octávio Pato, 2635-031 Rio de Mouro, Portugal

Duties:

- Lecture of the following modules in the Environmental Quality Laboratory Technician undergraduate course
  - Introduction to the Environmental Questions (2008)
  - Environmental Case Studies (2009)
  - Environmental Microbiology (laboratory practices) (2009)

#### **RESEARCHER – UNIVERSIDADE NOVA DE LISBOA – 10/2003 - 10/2006**

DEPARTMENT OF SCIENCE AND TECHNOLOGY OF BIOMASS  
Quinta da Torre, 2829-516 Caparica, Portugal

Duties:

- EU-funded COPOWER research project participation
- Project management (COPOWER)
- R&D in biomass combustion
- Waste valorisation
- Waste to Energy
- Leaching tests and ecotoxicology characterization of combustion ashes
- Ecotoxicological Sediment Characterization
- Environmental Performance Indicators
- Drinking water supply project for Mediterranean Cosmos shopping mall in Thessaloniki, Greece
- Physical and chemical laboratory analysis
- Water and waste sample collection
- Evaluation of Environmental Operational Program using Key Performance Indicators

#### **FREELANCE ENVIRONMENTAL ENGINEER – CÂMARA MUNICIPAL DE ABRANTES – 05/2000 - 11/2001**

Praça Raimundo Soares, 2200-366 Abrantes, Portugal

Duties:

- Municipal wastewater and stormwater drainage system inspection and characterization
- Municipal road system assessment
- ISO 9001 certification of the municipality

#### **ENVIRONMENTAL ENGINEER – SOCIEDADE DE EMPREITADAS FERROVIÁRIAS – 09/1998 - 05/2000**

EN109, Olho Marinho, 3885-113 Arada, Portugal

Duties:

- Industrial solid waste management (including railroads, trains and ships dismantling)
- Asbestos removal program management in ship dismantling
- Industrial cleaning coordination
- Industrial project certification
- Management of mining access road restoration

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## **EDUCATION**

#### **PhD ENERGY AND BIOENERGY – NEW UNIVERSITY OF LISBON – 10/2011 - 12/2014**

Thesis: Phytoremediation of Zn/Cu contaminated wastewater using *Arundo donax*

- Participation in EU-funded OPTIMA project
- Wastewater phytoremediation; Heavy-metal contamination; Physical and chemical laboratory analysis

#### **MSc BIOENERGY – NEW UNIVERSITY OF LISBON – 10/2001 - 02/2007**

Thesis: Characterization of wastes produced in the co-combustion of biomass and coal

- Participation in EU-funded COPOWER project
- Industrial wastes characterization; Ash characterization and treatment; Biomass combustion; Physical and chemical laboratory analysis

## **DEGREE ENVIRONMENTAL ENGINEERING – UNIVERSIDADE LUSÓFONA – 10/1993 - 12/1998**

- Air, noise, water and soil pollution; Wastewater treatment and management; Solid waste treatment and management; Water, wastewater and waste sample collection; soil characterization; soil sampling; Environmental impact assessment; Physical, chemical and microbiological laboratory analysis

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## **PUBLICATIONS**

### Book Chapters:

- A.L. Fernando, B. Barbosa, J. Costa, E.G. Papazoglou (2023) Chapter 6 - Giant reed (*Arundo donax* L.) - A multi-purpose crop bridging phytoremediation with sustainable bioeconomy. In Majeti Narasimha Vara Prasad edition. *Bioremediation and Bioeconomy. A Circular Economy Approach*. Second Edition. Pages 119-144. Elsevier. Doi: <https://doi.org/10.1016/C2022-0-02108-5>
- L.A. Gomes, A.L. Fernando, J. Costa, F. Santos. (2023). Energy from giant reed cultivated in contaminated soils - is it sustainable? in: Candida Vilarinho, Fernando Castro, Margarida J Quina ed. *WASTES: Solutions, Treatments and Opportunities IV*. Selected Papers from the 6th International Conference Wastes 2023, 6 – 8 September 2023, Coimbra, Portugal. CRC Press. Doi: <https://doi.org/10.1201/9781003345084-60>
- Gomes, L.A., Costa, J., Cumbane, B., Abias, M., Pires, J.R.A., Souza, V.G.L., Fernando, A.L. (2023). Combating Climate Change with Phytoremediation. Is It Possible? In: *Proceedings of the 2nd International Conference on Water Energy Food and Sustainability (ICoWEFS 2022)*. ICoWEFS 2022. Springer, Cham. [https://doi.org/10.1007/978-3-031-26849-6\\_52](https://doi.org/10.1007/978-3-031-26849-6_52)
- Gomes L.A., Costa J., Santos F., Fernando A.L. (2021) Environmental and Socio-economic Impact Assessment of the Switchgrass Production in Heavy Metals Contaminated Soils. In: Machado J., Soares F., Trojanowska J., Ottaviano E. (eds) *Innovations in Mechanical Engineering*. ICIENG 2021. Lecture Notes in Mechanical Engineering. Springer, Cham. [https://doi.org/10.1007/978-3-030-79165-0\\_38](https://doi.org/10.1007/978-3-030-79165-0_38)
- B. Cumbane, J. Costa, M. Gussule, L. Gomes, C. Rodrigues, V.G.L. Souza, A.L. Fernando (2019) Is the production of Kenaf in heavy metal contaminated soils a sustainable option? In: Cândida Vilarinho, Fernando Castro, Margarida Gonçalves, Ana Luísa Fernando (eds). *Wastes: Solutions, Treatments and Opportunities III*. Selected Papers from the 5th International Conference Wastes 2019, September 4-6, 2019, Lisbon, Portugal. CRC Press. <https://doi.org/10.1201/9780429289798>
- Barbosa B., Costa J., Fernando A.L. (2018) Production of Energy Crops in Heavy Metals Contaminated Land: Opportunities and Risks. In: Li R., Monti A. (eds) *Land Allocation for Biomass Crops*. Springer, Cham
- Sidella S, Barbosa B., Costa J., Cosentino S. L., Fernando A. L. (2016) Screening of Giant Reed Clones for Phytoremediation of Lead Contaminated Soils. In: Susanne Barth, Donal Murphy-Bokern, Olena Kalinina, Gail Taylor, Michael Jones (ed.). *Perennial Biomass Crops for a Resource-Constrained World*, Springer, pp191–197. doi:10.1007/978-3-319-44530-4\_16
- Barbosa B, Costa J, Boléo S, Duarte MP, Fernando AL (2016) Phytoremediation of inorganic compounds. In: Ribeiro AB, Mateus EP, Couto N (Ed). *Electrokinetics across disciplines and continents—new strategies for sustainable development*. Springer International Publishing, Switzerland, pp 373–400
- Jorge Costa, Bruno Barbosa, Ana Luisa Fernando (2016) Wastewaters Reuse for Energy Crops Cultivation. In: Luis M. Camarinha-Matos, António J. Falcão, Nazanin Vafaei, Shirin Najdi (ed). *Technological Innovation for Cyber-Physical Systems*, Volume 470 of the series IFIP Advances in Information and Communication Technology, pp 507–514
- A.L. Fernando, B. Barbosa, J. Costa, E.G. Papazoglou (2016) Giant reed (*Arundo donax* L.): A multipurpose crop bridging phytoremediation with sustainable bioeconomy. In: M.N.V. Prasad (Ed). *Bioremediation and Bioeconomy*. Elsevier Inc., Netherlands, pp 77–95
- B. Mendes, M. Gonçalves, N. Lobato, J. Costa (2007) Os agentes biológicos durante as actividades de limpeza. In: *Condições de trabalho de empregados de limpeza em instalações de serviços*. Instituto para a Segurança, Higiene e Saúde no Trabalho, pp 57-59, ISBN: 978-989-8076-07-6

- M. Gonçalves, B. Mendes, N. Lobato, J. Costa (2007) Os agentes químicos durante as actividades de limpeza. In: Condições de trabalho de empregados de limpeza em instalações de serviços. Instituto para a Segurança, Higiene e Saúde no Trabalho, pp 51-56, ISBN: 978-989-8076-07-6
- M. Gonçalves, B. Mendes, M. Cabeças, N. Lobato, J. Costa (2007) A exposição a produtos químicos de limpeza. In: Condições de trabalho de empregados de limpeza em instalações de serviços. Instituto para a Segurança, Higiene e Saúde no Trabalho, pp 183-195, ISBN: 978-989-8076-07-6
- B. Mendes, M. Gonçalves, N. Lobato, J. Costa (2007) Exposição a agentes biológicos perigosos. In: Condições de trabalho de empregados de limpeza em instalações de serviços. Instituto para a Segurança, Higiene e Saúde no Trabalho, pp 195-199, ISBN: 978-989-8076-07-6

International peer-review papers:

- Sampaio, L., Costa, J. (2024). Electric Taxiing System. Kinetic Energy Recovery System as an Electric Taxiing Solution: Economic and environmental analysis. Phenom 300 case study. Journal of the Air Transport Research Society, 3, 100037. <https://doi.org/10.1016/j.jatrs.2024.100037>
- Leandro Gomes, Jorge Costa, Joana Moreira, Berta Cumbane, Marcelo Abias, Fernando Santos, Federica Zanetti, Andrea Monti, Ana Luisa Fernando (2022) Switchgrass and giant reed energy potential when cultivated in heavy metals contaminated soils. *Energies*, 15, no. 15: 5538. <https://doi.org/10.3390/en15155538>
- Ana Luisa Fernando, Jorge Costa, Bruno Barbosa, Andrea Monti, Nils Rettenmaier (2018) Environmental impact assessment of perennial crops cultivation on marginal soils in the Mediterranean Region. *Biomass and Bioenergy*, 11, pp 174-186. <https://doi.org/10.1016/j.biombioe.2017.04.005>
- Ana Luísa Fernando, Sara Boléo, Bruno Barbosa, Jorge Costa, Maria Paula Duarte, Andrea Monti (2015) Perennial Grass Production Opportunities on Marginal Mediterranean Land, *BioEnergy Research*, 8, 4, pp 1523-1537
- Bruno Barbosa, Sara Boléo, Sarah Sidella, Jorge Costa, Maria Paula Duarte, Benilde Mendes, Salvatore L. Cosentino, Ana Luísa Fernando (2015) Phytoremediation of heavy metal-contaminated soils using the perennial energy crops *Miscanthus* spp. and *Arundo donax* L., *BioEnergy Research*, 8, 4, pp 1500-1511
- Barbosa B, Costa J, Fernando AL, Papazoglou EG (2015). Wastewater reuse for fiber crops cultivation as a strategy to mitigate desertification, *Industrial Crops and Products*, 68, pp 17-23

International peer-review conference papers:

- Fernando Cativa, Jorge Costa, Ana Luísa Fernando (2024) Biomass to Bioenergy in the Province of Huíla, Angola. Proceedings of the 3rd International Sustainable Energy Conference. 10-11 April, Messecongress Graz, Austria. Poster and Conference paper. 196-198. <https://doi.org/10.52825/isec.v1i.1044>
- M. Martins, F. Pires, L. Gomes, J. Moreira, C. Armaro, R. Castello, F. Alessandro, G. Testa, S.L. Cosentino, J. Costa, M. Abias, A.L. Fernando (2023) Thermochemical Potential of Tall Wheatgrass Cultivated in Heavy Metal Contaminated Soils. Proceedings of the 31st European Biomass Conference and Exhibition, 5-8 June. Bologna. Poster and Conference paper. <https://doi.org/10.5071/31stEUBCE2023-4CO.12.2>
- L. A. Gomes, J. Costa, B. Cumbane, M. Abias, J. R. A. Pires, V. G. L. Souza, F. Santos & A. L. Fernando (2023) Combating Climate Change with Phytoremediation. Is It Possible? Proceedings of the 2nd International Conference on Water Energy Food and Sustainability (ICoWEFS 2022). ICoWEFS 2022. Springer, Cham. [https://doi.org/10.1007/978-3-031-26849-6\\_52](https://doi.org/10.1007/978-3-031-26849-6_52)
- Pires, J.R.A., Gomes, L., Pinheiro, J., Ventura, M., Ciaramella, B.R., Costa, J., Testa, G., Cosentino, S.L., Lapa, N., Fernando, A.L. (2022) Characterization of Residual Liquors from Lignocellulosic Biomass Fractionation and its Exploitation for Biomass Production - Closing the Loop and Contributing to the Circular Economy. 30th European Biomass Conference and Exhibition, 9-12 May, virtual. Poster and conference paper. 773-777. <https://doi.org/10.5071/30thEUBCE2022-2BV.9.7>
- Leandro Gomes, João R. A. Pires, João Pinheiro, Márcia Ventura, Rachele Ciaramella, Jorge Costa, Giorgio Testa, Salvatore L. Cosentino, Ana Luísa Fernando, Nuno Lapa (2022) Anaerobic co-digestion of residual liquors from lignocellulosic biomass fractionation with a synthetic food waste for biogas production. 30th European Biomass Conference and Exhibition, 9-12 May, virtual. Poster and conference paper. 406-410. <https://doi.org/10.5071/30thEUBCE2022-4CV.3.18>
- Ana Luísa Fernando, Leandro Gomes, Jorge Costa, Efi Alexopoulou (2022) Combining bioenergy and biomaterials production with phytoremediation of contaminated soil - messages to take from selected cropping systems. 30th European Biomass Conference and Exhibition, 9-12 May, virtual
- Catarina Videira, Jorge Costa, Leandro Gomes, Berta Cumbane, Federica Zanetti, Andrea Monti, Ana Luísa Fernando (2022) Integrating the reuse of contaminated effluents with oil crops production - hints on how economic growth can be decoupled from resource use. 30th European Biomass Conference and Exhibition, 9-12 May, virtual

- Leandro Gomes, Jorge Costa, Fernando Santos, Ana Luísa Fernando (2022) Thermochemical potential of low ILUC risk grasses: the case study of giant reed cultivated in heavy metal contaminated soils. 30th European Biomass Conference and Exhibition, 9-12 May, virtual
- J. Costa (2021) A Utilização do Kahoot! como Ferramenta para Identificação de Dificuldades de Aprendizagem. 7.º Congresso Nacional de Práticas Pedagógicas no Ensino Superior. 12-16 de julho (virtual)
- B. L. Cumbane, L. Gomes, J. Costa, A. L. Fernando, I. Alves (2021) Production Potential of Hibiscus Cannabinus L. in Marginal Lands of Tropical Regions. EUBCE 2021 - 29th European Biomass Conference and Exhibition, virtual, 26-29 April. Virtual
- L. Gomes, J. Costa, F. Santos, A.L. Fernando (2021) Production Potential of Arundo Donax L. in Soils Contaminated with Heavy Metals. EUBCE 2021 - 29th European Biomass Conference and Exhibition, virtual, 26-29 April. Virtual
- L. Gomes, J. Costa, F. Santos, A.L. Fernando (2021) Environmental and Socio-Economic Impact Assessment of Giant Reed Production in Heavy Metals Contaminated Soils. EUBCE 2021 - 29th European Biomass Conference and Exhibition, virtual, 26-29 April. Virtual
- B. Cumbane, L. Gomes, C. Rodrigues, A.L. Fernando, J. Costa, F. Zanetti, A. Monti, E. Alexopoulou (2020). Comparing the Growth and Yield of Kenaf (Hibiscus Cannabinus L.) Produced in Two Different Climatic Types in Soils Contaminated by Zinc, Copper, Chromium and Lead. Proceedings of e-EUBCE 2020, 28th European Biomass Conference & Exhibition - Bioeconomy's role in the post-pandemic economic recovery, virtual, 6 - 9 July. Virtual
- L. Gomes, A.L. Fernando, J. Costa, F.A. Santos, F. Zanetti, A. Monti (2020). Switchgrass Cultivation Potential in Soils Contaminated with Heavy Metals. Proceedings of e-EUBCE 2020, 28th European Biomass Conference & Exhibition - Bioeconomy's role in the post-pandemic economic recovery, virtual, 6 - 9 July. Virtual
- J. Costa, L. Gomes, M. Ferreira, C. Graça, A.L. Fernando, M. Abias, F. Germanà, F. Zanetti, A. Monti (2020). Production of Oil Crops for Bioenergy Under Heavy Metal Contaminated Soils. Proceedings of e-EUBCE 2020, 28th European Biomass Conference & Exhibition - Bioeconomy's role in the post-pandemic economic recovery, virtual, 6 - 9 July. Virtual
- B. Valpradinhos, L. Gomes, C. Rodrigues, M. Gonçalves, A.L. Fernando, J. Costa (2020). Combining Camelina Sativa Production with Phytodepuration of Contaminated Effluents Obtained in Hydrothermal Carbonization Processes - An Opportunistic Approach. Proceedings of e-EUBCE 2020, 28th European Biomass Conference & Exhibition - Bioeconomy's role in the post-pandemic economic recovery, virtual, 6 - 9 July. Virtual
- F. Cativa, C. Rodrigues, J. Costa, A.L. Fernando (2019) Bioenergy Potential Production in Angola Through the Use of Agricultural Wastes. Proceedings of the 5th International Conference WASTES: Solutions, Treatments and Opportunities, 4th - 6th September, Costa da Caparica, Portugal
- C. Videira, J. Costa, L. Gomes, C. Rodrigues, F. Cativa, F. Zanetti, A. Monti, A.L. Fernando (2019) Depuration of Heavy Metals Contaminated Wastewaters with Oil Crops. Proceedings of the 5th International Conference WASTES: Solutions, Treatments and Opportunities, 4th - 6th September, Costa da Caparica, Portugal
- B. Valpradinhos, J. Costa, L. Gomes, M. M. Gonçalves, A.L. Fernando (2019) Phytodepuration of Hydrothermal Carbonization Effluents by Camelina Sativa. Proceedings of the 5th International Conference WASTES: Solutions, Treatments and Opportunities, 4th - 6th September, Costa da Caparica, Portugal
- B. Cumbane, L. Gomes, J. Costa, H. Araújo, J. Cunha, C. Rodrigues, J. Pires, Y.F. Wang, A.L. Fernando (2019) Remediation of Soils Contaminated with Heavy Metals with Kenaf. Proceedings of the 5th International Conference WASTES: Solutions, Treatments and Opportunities, 4th - 6th September, Costa da Caparica, Portugal
- L. Gomes, J. Costa, B. Cumbane, J. Pires, C. Rodrigues, F. Santos, F. Zanetti, A. Monti, A.L. Fernando (2019) Phytoremediation Potential of Perennial Crops in Soils Contaminated with Heavy Metals. Proceedings of the 5th International Conference WASTES: Solutions, Treatments and Opportunities, 4th - 6th September, Costa da Caparica, Portugal
- C. Graça, J. Costa, L. Gomes, F. Germanà, M. Ferreira, M. Abias, J. Pires, C. Rodrigues, F. Zanetti, A. Monti, A.L. Fernando (2019) Production of Two Camelina Sativa Varieties under Zn/Pb Contaminated Soils. Proceedings of the 5th International Conference WASTES: Solutions, Treatments and Opportunities, 4th - 6th September, Costa da Caparica, Portugal
- M. Ferreira, J. Costa, L. Gomes, C. Graça, F. Germanà, M. Abias, C. Rodrigues, J. Pires, F. Zanetti, A. Monti, A.L. Fernando (2019) Production of Oil Crops under Zn/Pb Contaminated Soils. Proceedings of the 5th International Conference WASTES: Solutions, Treatments and Opportunities, 4th - 6th September, Costa da Caparica, Portugal
- F. Germanà, J. Costa, L. Gomes, M. Abias, C. Graça, M. Ferreira, C. Rodrigues, J. Pires, F. Zanetti, A. Monti, A.L. Fernando (2019) Production of Oil Crops under Ni/Cd Contaminated Soils. Proceedings of the 5th International Conference WASTES: Solutions, Treatments and Opportunities, 4th - 6th September, Costa da Caparica, Portugal
- M. Abias, J. Costa, L. Gomes, M. Ferreira, C. Graça, F. Germanà, J. Pires, C. Rodrigues, F. Zanetti, A. Monti, A.L. Fernando (2019) Production of Winter and Summer Varieties of Camelina Sativa under Ni/Cd Contaminated Soils. Proceedings of the 5th International Conference WASTES: Solutions, Treatments and Opportunities, 4th - 6th September, Costa da Caparica, Portugal

- Ana Paula Oliveira, Jorge Costa, Ana Patrícia Almeida (2019) Aquaponia como estratégia de integração curricular: relatos de um projeto. 6º Congresso Nacional de Práticas Pedagógicas no Ensino Superior. 11 e 12 de julho 2019, Escola Superior Agrária do Instituto Politécnico de Santarém
- Luís Moreira, Ana Patrícia Almeida, Jorge Costa (2019) Metodologias ativas no ensino do cálculo integral triplo. 6º Congresso Nacional de Práticas Pedagógicas no Ensino Superior. 11 e 12 de julho 2019, Escola Superior Agrária do Instituto Politécnico de Santarém. ISBN: 978-972-95259-8-8
- Costa, J., Gomes, L., Graça, C., Ferreira, M., Germanà, F., Abias, M., Pires, J., Rodrigues, C., Zanetti, F., Monti, A., Fernando, A.L. (2019) Production of Oil Crops Under Heavy Metals Contaminated Soils. 27th European Biomass Conference and Exhibition, 27-30/05/2019, Lisbon, Portugal
- Cumbane, B., Gomes, L., Costa, J., Araújo, H., Cunha, J., Pires, J., Rodrigues, C., Wang, Y-F., Fernando, A.L. (2019) Performance of Three Cultivars of Kenaf (*Hibiscus Cannabinus* L.) in Zinc and Chromium Contaminated Soils. 27th European Biomass Conference and Exhibition, 27-30/05/2019, Lisbon, Portugal
- Cumbane, B., Gomes, L., Costa, J., Cunha, J., Araújo, H., Pires, J., Rodrigues, C., Zanetti, F., Monti, A., Alexopoulou, E., Fernando, A.L. (2019) Understanding the Potential of Kenaf in Heavy Metals Contaminated Soils. 27th European Biomass Conference and Exhibition, 27-30/05/2019, Lisbon, Portugal
- Gomes, L., Cumbane, B., Costa, J., Pires, J., Rodrigues, C., Santos, F., Zanetti, F., Monti, A., Fernando, A.L. (2019) Phytoremediation Potential of the Perennial Crops Giant Reed and Switchgrass to Soils Contaminated with Heavy Metals. 27th European Biomass Conference and Exhibition, 27-30/05/2019, Lisbon, Portugal
- Fernando, A.L., Costa, J., Boulday, D., Antoine, P., Cocchi, M., Bern, L., Forsgren, H., Detterfelt, L., Supancic, K., Borzecka, M., Guevska, M. (2019) BioReg Project: How to Fully Unlock the Unused Wood Waste Potential in Europe? 27th European Biomass Conference and Exhibition, 27-30/05/2019, Lisbon, Portugal
- Cativa, F., Rodrigues, C., Costa, J., Fernando, A.L. (2019) Integrating Bioenergy Production Potential and Agricultural Land Use in Angola. 27th European Biomass Conference and Exhibition, 27-30/05/2019, Lisbon, Portugal
- Gomes, L., Costa, J., Barbosa, B., Santos, F., Fernando, A.L. (2019) Is it feasible to produce energy crops in heavy metals contaminated soils? 27th European Biomass Conference and Exhibition, 27-30/05/2019, Lisbon, Portugal
- Costa J, Barbosa B, Fernando AL (2018) Environmental and socio-economic impact assessment of the production of perennial crops when irrigated with treated wastewaters. Proceedings of the 7th International Conference on Engineering for Waste and Biomass Valorisation (WasteEng 2018), 2-5 July 2018, Prague, Czech Republic
- Costa J, Fernando AL (2018) Potential of wood waste in Portugal – A biobased ecosystem model. Proceedings of the 7th International Conference on Engineering for Waste and Biomass Valorisation (WasteEng 2018), 2-5 July 2018, Prague, Czech Republic
- Fernando AL, Barbosa B, Boléo S, Duarte MP, Sidella S, Costa J, Cosentino SL (2018) Phytoremediation Potential of Heavy Metal Contaminated Soils by the Perennial Energy Crops *Miscanthus* spp. and *Arundo donax* L. under Low Irrigation. 26th European Biomass Conference and Exhibition, Setting the course for a Biobased Economy, 14-17 May 2018, Copenhagen, Denmark. DOI: 10.5071/26thEUBCE2018-1CO.9.2
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