

CURRICULUM VITAE

Personal Details

Name: **ANDREA ZILLE**

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Academic Degrees

- 2010** Qualification of **Certified Trainer (A64 - Environmental Science)** number CCPFC/RFO-28177/10 by Conselho Científico-Pedagógico da Formação Contínua.
- 2005** University of Minho, Textile Engineering Department, Portugal. **Ph.D. in Textile Engineering - Textile Chemistry**. Approved with unanimity. PhD Thesis in enzymatic biodegradation of textile dyeing effluents.
- 2001** University of Évora, Portugal. **Equivalence to Degree in Environmental Science**. 16/20.
- 2000** University of Venice, Italy. **BSc/MS Degree in Environmental Science**, specialization in Ecobiology (5 years + 1 for experimental thesis). 104/110 (Portuguese classification 18/20 - Despacho n.º 28145-D/2008)

Work Experience

- 2017 - Today** **Faculty Senior Researcher** (Investigador Principal) **FCT researcher contract** from Science and Technology Foundation (FCT), Portugal. Programme “Investigador FCT IF2015” (<https://www.fct.pt/apoios/contratacaodoutorados/investigador-fct/>). Investigation line: “**Atmospheric pressure plasma deposition of nanoparticles for biomedical textiles**” Centre for Textile Science and Technology (2C2T), University of Minho, Guimarães, Portugal.
- 2018 - Today** **Lead Author of the Intergovernmental Panel on Climate Change (IPCC)** at the Task Force on National Greenhouse Gas Inventories for the textile greenhouse fluorinated gas emissions chapter in the IPCC refinement 2019.
- 2016 - 2017** **Science manager and scientific coordinator** of the post-doc fellows at 2C2T, University of Minho, Guimarães, Portugal.

- 2012 - 2015** **Faculty Researcher** (Investigador Auxiliar). **FCT researcher contract** from Science and Technology Foundation (FCT), Portugal. Programme “FCT - Ciência 2008” (<http://www.fct.pt/ciencia2008.phtml.en>). Investigation line: “**Biotechnology and nanotechnology applied to materials**” 2C2T, University of Minho, Guimarães, Portugal.
- 2008 - 2011** **Postdoctoral research fellow**, IBMC, Porto, Portugal. Project: “**Removal of heavy metals from polluted waters using cyanobacterial exopolysaccharide (EPS)**”. **Postdoctoral Grant** from Science and Technology Foundation (FCT), Portugal. Ref: SFRH/BPD/37045/2007
- 2006 - 2007** **Postdoctoral research fellow**, University of Minho, Guimarães, Portugal. Project: “**Enzymatic Coating of Fiber of Technical Interest**”. **Postdoctoral Grant** from Science and Technology Foundation (FCT), Portugal. Ref: SFRH/BPD/24238/2005
- 2001 - 2005** **PhD research fellow**, University of Minho, Guimarães, Portugal. Thesis: “**Laccase Reactions for Textile Applications**”. **PhD Grant** from Science and Technology Foundation (FCT), Portugal. Ref: PRAXIS XXI/BD/4720/2001.
- 1999 – 2000** **Researcher**, Consorzio Venezia Ricerche, Venice, Italy. **Chemical and Hydrogeological assessment of an industrial dump**, Venice, Italy.

Institutional management activities

- 2018 – 2019** **Member of the Electoral Commission** of the University of Minho by appointment of the President of the School of Engineering.
- 2018** **Representative of the School of Engineering** under the External Institutional Evaluation / Accreditation - A3ES.
- 2016** **Science and Technology Manager of 2C2T**. Scientific and management support in project submission and development, as a facility coordinator. new equipment and the reorganization of laboratory spaces.
- 2009 – 2010** **Elected Member of the Executive Council** of the Institute of Cellular and Molecular Biology (IBMC) of the University of Porto as a representative of postdoctoral researchers.

Invited positions

- 2018 - Today** **Lead Author of the Intergovernmental Panel on Climate Change (IPCC)** for the textile greenhouse fluorinated gas emissions chapter in the IPCC refinement 2019.

https://www.ipcc-nggip.iges.or.jp/home/2019refinement/docs/2019Refinement_ListofAuthors_190123.pdf

- 2019** **Editorial Board Member** of the MDPI journal “Polymers” (IF 3.164).
<https://www.mdpi.com/journal/polymers/editors>
- 2019** **Review Editor** on the Editorial Board of Industrial Biotechnology, part of the journal Frontiers in Bioengineering and Biotechnology (IF 5.122).
<https://www.frontiersin.org/journals/bioengineering-and-biotechnology/sections/industrial-biotechnology#editorial-board>
- 2019** **Topic Editor** of the MDPI journal “Nanomaterials” (IF 4.034).
https://www.mdpi.com/journal/nanomaterials/topic_editors
- 2019** **Lead Guest Editor** of the special issue on "Atmospheric Plasma Surface Treatment of Fibrous Materials" for the Hindawi journal “Advances in Materials Science and Engineering” (IF 1.399)
<https://www.hindawi.com/journals/amse/si/654264/cfp/>
- 2019** **Guest Editor** of the special issue on "Inorganic Nanoparticles: Synthesis, Characterization and Nanoscopic Properties" for MDPI journal “Nanomaterials” (IF 4.034).
https://www.mdpi.com/journal/nanomaterials/special_issues/Inorganic_particles
- 2019** **Guest Editor** of the special issue on "Immobilization of Organic and Inorganic Nanoparticles and Enzymes" for MDPI journal “Nanomaterials” (IF 4.034).
https://www.mdpi.com/journal/nanomaterials/special_issues/immobilization_nanoparticles_enzymes
- 2019** **Guest Editor** of the special issue on "Bionanotechnology" for MDPI journal “Nanomaterials” (IF 4.034).
https://www.mdpi.com/journal/nanomaterials/special_issues/Bionanotechnology
- 2018** **Guest Editor** of the special issue on "Functional Coatings for Textile Applications" for MDPI journal “Coatings” (IF 2.330).
https://www.mdpi.com/journal/coatings/special_issues/funct_coat_textile_app
- 2017** Member of the **Scientific Committee** of the iTechStyle Summit 2018 - 2nd International Conference of Textile and Clothing. 28 February - 2 March 2018, Porto, Portugal.
<http://events.citeve.pt/event/itechstyle-summit-2018/organization/scientific-committee>
- 2015** **Chair of the session** “Functional natural fibers” at the ICNF 2015 - 2nd International Conference on Natural Fibers. 27-29 April 2015, São Miguel, Azores (Portugal).

Language Skills

Italian	Mother tongue
English	Reading: Excellent; Writing: Excellent; Verbal: Good
Portuguese	Reading: Excellent; Writing: Good; Verbal: Excellent
Spanish	Reading: Excellent; Writing: Fair; Verbal: Fair

Citation Metrics Based On ISI, [Scopus] and (Google Scholar)

- Total peer-reviewed publications with citation data: **56, [51], (60)**
- Sum of the times cited (without self-citations): **1421, [1565], (2285)**
- h-index: **21, [21], (23)**
- Last Updated: **November 2019**

Financed Project as Coordinator or Participant with Budget

- **PTDC/CTM-TEX/28295/2017 (National project - Coordinator)** “PLASMAMED - Bionanocomposite coatings with controllable antibacterial activity using atmospheric-pressure plasma deposition” Starting date: 2018. Ongoing. 225826 €.
- **M-ERA.NET Transnational Call 2014 (European Project - WP leader)** “PLASMATEX - Novel type of antibacterial plasma deposited coatings on textile materials and polymers with controllable release of antibacterial agent”. Starting date: 2015. Due date: 2018. 92352 € Exploitation of cyanobacterial exopolysaccharides (EPS) for heavy metal bioremediation (927500 € Total)
- **FCT-PTDC/CTM/100627/2008. (National project - Coordinator)** “Thin-layer nanofiltration membranes using engineered biopolymers for seawater desalination pre-treatment processes” Starting date: 2008. Due date: 2013. 178000 €

Projects as Team Member

- **Cost Action CA17107** - European Network to connect research and innovation efforts on advanced Smart Textiles. Ongoing.
- **PTDC/EME-SIS/28225/2017** BoFraPla - Development of an innovative composite system for comminuted bone fracture stabilization. Starting date: 2018. Ongoing. 204339 €
- **PTDC/CTM-TEX/28074/2017** PEPTXT - Electrospun polymeric wound dressings functionalized with Tiger 17 for an improved antimicrobial protection and faster tissue regeneration in pressure ulcers. Starting date: 2018. Ongoing. 239951 €
- **NORTE-01-0145-FEDER-000015** TSSiPRO - Technologies for Sustainable and Smart Innovative Products. Starting date: 2016. Ongoing.
- **FCT-PTDC/EBB-EBI/099662/2008.** Exploitation of cyanobacterial exopolysaccharides (EPS) for heavy metal bioremediation. Starting date: May 2008. Concluded.

- **BIORENEW U.E. Project** - White Biotechnology for added value products from renewable plant polymers: Design of tailor-made biocatalysts and new Industrial bioprocesses. Concluded.
- **ULTRATEC U.E. project** - New production technologies, based on nanotechnology and new materials -Acceleration of Textile Processes by Ultrasound Technology. Concluded.
- **BIOEFFTEX U.E. project.** - Biotechnical Treatment and Recycling of Textile Processing Effluents. Concluded.
- **BIOSYNTEX U.E. project.** - Biotechnical quality improvement of synthetic textile fibres. Concluded.
- **Cost Action 868** - Biotechnical Functionalization of Renewable Polymeric Materials. Concluded.
- **Cost Action D32** - Chemistry in High-Energy Microenvironments (CHEM) - High-Energy Micro-Environments Applications in Textiles (HEMEAT). Concluded.
- **Cost Action 847** - Textile Quality and Biotechnology. Concluded.

Other Participations

- **IACOBUS program.** Joint research activities under the Scientific, Pedagogical and Cultural Cooperation Protocol between the Universities of north of Portugal and Galicia region. 15-22 June 2015. Guimarães (Portugal)
- **GRICES-CSIS short mission** - Laccase immobilization in liposomes: protocol development for enzyme activity and protein content determination. 21-31 March 2007. Barcelona (Spain).
- **Workshop** "Patents and technology transfer in Health". 18 January 2011. IPATIMUP, Porto, Portugal.

Science communication

- **Interview** "Climate change aggravates episodes of *acqua alta* in Venice" Journal "Diario de Notícias" 14 November 2019, Guimarães, Portugal
- **Interview.** "The right chemistry", Porto, Portugal. Magazine "Journal Têxtil" 2 April 2018.
- **Highlight.** "Conversation with Citizen of the world" Bird Magazine 21 January 2017 (Portugal).
- **Highlight.** "Citizen of the world share experiences" Journal "Correio do Minho" 8 January 2017, Braga (Portugal).
- **Debate.** "Conversation with Citizen of the world" Club del Mar, 6 January 2017, Braga (Portugal).
- **Debate.** "Coffee Science - Biotechnology: challenges in handling life" Portuguese Parliament Library, 9 April 2015, Lisbon (Portugal).
- **Workshop** "Science communication and media training". 24-25 May 2010. IBMC, Porto, Portugal.
- **Participation in the organization** of the **European Researchers' Nights** 2009, 2010, 2011, 2012. Funded by the European Commission.

- **Highlight.** “Challenges and opportunities of Textiles in discussion at UMinho” Journal “Correio do Minho” 9 April 2015, Braga (Portugal).
- **Interview.** “Fiction and reality in Avatar ”, Porto, Portugal. Magazine “Sabado” 11 February 2010.
- **Highlight.** “Scientific Bar - European Researchers' Night 2010” <http://cientistasaoalco2.blogspot.com/2010/09/cafebar-cientifico.html> 23 September 2010, Porto (Portugal).
- **Interview.** “Researchers discover bacteria that reduces toxicity of textile wastewater”, Porto, Portugal. Magazine “Visão” 7 May 2009.
- **Interview.** “Foreign scientists choose Portugal”, Porto, Portugal. Journal “Diario de Noticias” 24 August 2008.

Peer-Reviewed International Publications

Journal Papers

1. Xinyu S, Vossebein L, **Zille A*** (2019) Efficacy of disinfectant-impregnated wipes used for surface disinfection in hospitals: a review. *Antimicrobial Resistance & Infection Control*. 8(1): 1-14. *Corresponding author. **DOI: 10.1186/s13756-019-0595-2 - JCR® IF 2018: 3.224 - Q1**
2. Fernandes DVR, Gomes P, **Zille A**, Souto AP (2019) Influence of chemical reaction conditions in p(St-MMA-AA) synthesis: variation in nanoparticle size, color and deposition methods. *Coloration Technology*. **DOI: 10.1111/cote.12452 - JCR® IF 2018: 1.241 – Q2**
3. Tohidi SD, Rocha AM, Dourado N, Rezazadeh M, Quynh NT, **Zille A**, Hesseler S, Gries T, Dencheva ND, Denchev Z (2019) Influence of transcrystalline layer on finite element mesoscale modeling of polyamide 6 based single polymer laminate composites. *Composite Structures*. **DOI: 10.1016/j.compstruct.2019.111555 - JCR® IF 2018: 4.829 - Q1**
4. Xinyu S, Cvelbar U, Strazar P, Vossebein L, **Zille A*** (2019) Chemical, Thermo-Mechanical and Antimicrobial Properties of DBD Plasma Treated Disinfectant-Impregnated Wipes during Storage. *Polymers*. 11: 1769. *Corresponding author. **DOI: 10.3390/polym11111769 - JCR® IF 2018: 3.164 - Q1**
5. Felgueiras H, Teixeira M, Tavares T, Natália CH, **Zille A**, Amorim MT (2019) Antimicrobial Action and Clotting Time of Thin, Hydrated Poly(Vinyl Alcohol)/Cellulose Acetate Films Functionalized with LL37 for Prospective Wound-Healing Applications. *Journal of Applied Polymer Science*. **DOI: 10.1002/app.48626 - JCR® IF 2018: 2.188 – Q2**
6. Braga C, Sampaio AR, Peixoto J, Silva CJ, **Zille A*** (2019) Effects of Cellulose Nanofibrils on the Structure and Properties of Maleic Anhydride Crosslinked Poly(Vinyl Alcohol) Electrospun Nanofibers. *SN Applied Sciences*. 1: 1640 *Corresponding author. **DOI: 10.1007/s42452-019-1706-7 - JCR® IF 2018: –**
7. Barros Antunes AA, Rocha Cardoso AP, Rodrigues AC, Silva CJ, **Zille A*** (2019) Optimizing enzymatic dyeing of wool and leather. *SN Applied Sciences*. 1: 1232. *Corresponding author. **DOI: 10.1007/s42452-019-1241-6 - JCR® IF 2018: –**
8. Ribeiro AI, D Senturk, K Silva, M Modic, U Cvelbar, G Dinescu, B Mitu, A Nikiforov, C Leys, I Kuchakova, M De Vrieze, A P Souto, **Zille A*** (2019) Antimicrobial efficacy of low

- concentration PVP-silver nanoparticles deposited on DBD plasma-treated polyamide 6,6 fabric. *Coatings*. 9(9): 581. *Corresponding author. **DOI: 10.3390/coatings9090581 - JCR® IF 2018: 2.330 – Q2**
9. Silva IO, Ladchumananandasivam R, Nascimento JHO, Silva KKOS, Oliveira FR, Souto AP, Felgueiras HP, **Zille A*** (2019) Multifunctional Chitosan/Gold Nanoparticles Coatings for Biomedical Textiles. *Nanomaterials*. 9(8): 1064. *Corresponding author. **DOI: 10.3390/nano9081064 - JCR® IF 2018: 4.034 - Q1**
 10. Souza J, Henriques M, Teixeira P, Fernandes M, Fangueiro R, **Zille A*** (2019) Comfort and Infection Control of Chitosan-impregnated Cotton Gauze as Wound Dressing. *Fibers and Polymers*. 20 (5): 922-932. *Corresponding author. **DOI: 10.1007/s12221-019-9053-2 - JCR® IF 2018: 1.439 - Q1**
 11. Yavuz G, Felgueiras H, Riberior AI, Seventekin N, **Zille A***, Souto AP (2018) Dyed poly (styrene-methyl methacrylate-acrylic acid) photonic nanocrystals for enhanced structural color. *ACS Applied Materials & Interfaces*. 10(27):23285-23294. *Corresponding author. **DOI: 10.1021/acsami.8b03003. JCR® IF 2017: 8.097 - Q1**
 12. Yavuz G, **Zille A***, Seventekin N, Souto AP (2018) Structural coloration of chitosan coated cellulose fabrics by electrostatic self-assembled poly (styrene-methyl methacrylate-acrylic acid) photonic crystals. *Carbohydrate Polymers*. 193:343-352. *Corresponding author. **DOI: 10.1016/j.carbpol.2018.03.084. JCR® IF 2017: 5.158 - Q1**
 13. Tohidi SD, **Zille A**, Catarino AP, Rocha AM (2018) Effects of base fabric parameters on the electro-mechanical behavior of piezoresistive knitted sensors. *IEEE Sensors Journal*. 18(11):4529-4535. **DOI: 10.1109/JSEN.2018.2826056. JCR® IF 2016: 2.617 – Q1**
 14. Coelho D, Sampaio A, Silva CJSM, Felgueiras HP, Amorim MTP, **Zille A** (2017) Antibacterial Electrospun PVA/Enzymatic Synthesized Poly(catechol) Nanofibrous Mid-Layer Membrane for Ultrafiltration. *ACS Applied Materials & Interfaces*. 9 (38):33107-33118. *Senior author. **DOI: 10.1021/acsami.7b09068. JCR® IF 2017: 8.097 - Q1**
 15. Moraes MR, Alves AC, Toptan F, Martins MS, Vieira EMF, Paleo AJ, Souto AP, Santos WLF Esteves MF, **Zille A** (2017) Glycerol/PEDOT:PSS coated woven fabric as a flexible heating element on textiles. *Journal of Materials Chemistry C*. 5: 3807-3822. *Corresponding author. **DOI: 10.1039/c7tc00486a . JCR® IF 2017: 5.976 - Q1**
 16. Paleo AJ, **Zille A**, Van Hattumb FW, Ares-Pernasc A, Moreira JA (2017) Dielectric relaxation of near-percolated carbon nanofiber polypropylene composites. *Physica B: Condensed Matter*. 516:41-47. **DOI: 10.1016/j.physb.2017.04.027. JCR® IF 2017: 1.453 - Q3**
 17. Cunha MNM, Felgueiras HP, Gouveia I, **Zille A** (2017) Synergistically enhanced stability of laccase immobilized on synthesized silver nanoparticles with water-soluble polymers. *Colloids and Surfaces B: Biointerfaces*. 154:210-220. **DOI: 10.1016/j.colsurfb.2017.03.023. JCR® IF 2017: 3.997 – Q1**
 18. Souza JM, Sampaio S, Silva WC, de Lima SG, **Zille A***, Fangueiro R (2016) Characterization of functional single jersey knitted fabrics using non-conventional yarns for sportswear. *Textile Research Journal*. *Corresponding author. **DOI: 10.1177/0040517516677226. JCR® IF 2016: 1.443 - Q1**
 19. Sampaio ML, Padrão J, Faria J, Silva JP, Silva CJ, Dourado F, **Zille A*** (2016) Laccase immobilization on bacterial nanocellulose membranes: antimicrobial, kinetic and stability properties. *Carbohydrate Polymers*. 145: 1-12. *Corresponding author. **DOI: 10.1016/j.carbpol.2016.03.009. JCR® IF 2016: 4.811- Q1**
 20. Oliveira FR, Galvão FM, Tabhita LT, Silva KKOS, Nascimento JHO, Souto AP, **Zille A*** (2016) Tinctorial behaviour of curaua and banana fibers and dyeing wastewater treatment by

porous alumina membranes. *Desalination and Water Treatment*. 57(6): 2750-2758.
*Corresponding author. DOI: [10.1080/19443994.2015.1063088](https://doi.org/10.1080/19443994.2015.1063088) - JCR® IF 2016: 1.631 – Q2

21. Oliveira F, Steffens F, Souto A, Zille A* (2016) Reuse of effluent from dyeing process of polyamide fibers modified by double barrier discharge (DBD) plasma. *Desalination and Water Treatment*. 57(6): 2649-2656 *Corresponding author. DOI: [10.1080/19443994.2015.1018334](https://doi.org/10.1080/19443994.2015.1018334) - JCR® IF 2016: 1.631 – Q2
22. Silva KKOS, Paskocimas CA, Oliveira FR, Nascimento JHO, Zille A* (2016) Development of porous alumina membranes for treatment of textile effluent. *Desalination and Water Treatment*. 57(6): 2640-2648. *Corresponding author. DOI: [10.1080/19443994.2015.1018333](https://doi.org/10.1080/19443994.2015.1018333) - JCR® IF 2016: 1.631 – Q2
23. Zille A*, Fernandes MM, Francesko A, Tzanov T, Fernandes M, Oliveira FR, Almeida L, Amorim T, Carneiro N, Esteves F, Silva CJ, Souto AP (2015) Size and Aging Effects on Antimicrobial Efficiency of Silver Nanoparticles Coated on Polyamide Fabrics Activated by Atmospheric DBD Plasma. *ACS Applied Materials & Interfaces*. 7(25):13731-13744. *Corresponding author. DOI: [10.1021/acsami.5b04340](https://doi.org/10.1021/acsami.5b04340) - JCR® IF 2015: 7.145 - Q1
24. Molina J, Zille A, Fernández J, Souto AP, Bonastre J, Cases F (2015) Conducting fabrics of polyester coated with polypyrrole and doped with graphene oxide. *Synthetic Metals*. 204:110-121. DOI: [10.1016/j.synthmet.2015.03.014](https://doi.org/10.1016/j.synthmet.2015.03.014) - JCR® IF 2014: 2.299 - Q2
25. Zille A*, Oliveira FR, Souto AP (2014) Plasma treatment in Textile Industry. *Plasma Processes and Polymers*. 12(2):98-131. *Corresponding author. DOI: [10.1002/ppap.201400052](https://doi.org/10.1002/ppap.201400052) - JCR® IF 2014: 2.453 - Q1
26. Souza JM, Caldas AL, Tohidi SD, Molina J, Souto AP, Fangueiro R, Zille A* (2014) Properties and controlled release of chitosan microencapsulated limonene oil. *Brazilian Journal of Pharmacognosy*. 24(6):691-698. *Corresponding author. DOI: [10.1016/j.bjpp.2014.11.007](https://doi.org/10.1016/j.bjpp.2014.11.007) - JCR® IF 2014: 0.834 - Q4
27. Zille A*, Almeida L, Amorim T, Carneiro N, Esteves F, Silva CJ, Souto AP (2014) Application of nanotechnology in antimicrobial finishing of biomedical textiles. *Materials Research Express*. 1(3): 032003. *Corresponding author. DOI: [10.1088/2053-1591/1/3/032003](https://doi.org/10.1088/2053-1591/1/3/032003) - JCR® IF 2015: 0.968 - Q3
28. Santos C, Silva CJ, Büttel Z, Guimarães R, Pereira SB, Tamagnini P, Zille A* (2014) Preparation and characterization of polysaccharides/PVA blend nanofibrous membranes by electrospinning method. *Carbohydrate Polymers*. 99:584-592. *Corresponding author. DOI: [10.1016/j.carbpol.2013.09.008](https://doi.org/10.1016/j.carbpol.2013.09.008). JCR® IF 2014: 4.074 - Q1
29. Oliveira FR, Zille A*, Souto AP (2014) Dyeing Mechanism and Optimization of Polyamide 6,6 functionalized with Double Barrier Discharge (DBD) Plasma in air. *Applied Surface Science*. 293:177-186. *Corresponding author. DOI: [10.1016/j.apsusc.2013.12.126](https://doi.org/10.1016/j.apsusc.2013.12.126). JCR® IF 2013: 2.711 - Q1
30. Vu NK*, Zille A*, Oliveira FR, Carneiro N, Souto AP (2013) Effect of particle size on silver nanoparticle deposition onto Dielectric Barrier Discharge (DBD) plasma functionalized polyamide fabric. *Plasma Processes and Polymers*. 10(3):285-296. *These authors contributed equally. DOI:[10.1002/ppap.201200089](https://doi.org/10.1002/ppap.201200089) - JCR® IF 2013: 2.964 - Q1
31. Mota R, Guimarães R, Büttel Z, Rossi F, Colica G, Silva CJ, Santos C, Gales L, Zille A, De Philippis R, Pereira SB, Tamagnini P (2013) Production and characterization of extracellular carbohydrate polymer from *Cyanothece* sp. CCY 0110. *Carbohydrate Polymers*. 92(2):1408-1415. DOI:[10.1016/j.carbpol.2012.10.070](https://doi.org/10.1016/j.carbpol.2012.10.070) - JCR® IF 2013: 3.916 - Q1

32. Lopo M, Montagud A, Navarro E, Cunha I, **Zille A**, PFernández de Córdoba P, Moradas-Ferreira P, Tamagnini P, Urchueguía J F (2012) Experimental and Modeling Analysis of *Synechocystis* sp. PCC 6803 Growth. *Journal of Molecular Microbiology and Biotechnology*. 22:71-82. DOI:10.1159/000336850 - JCR® IF 2012: 1.679 - Q3
33. Pereira SB, E Micheletti, **Zille A**, A Santos, P Moradas-Ferreira, P Tamagnini, R De Philippis (2011) Using EPS-producing cyanobacteria for the bioremediation of heavy metals: do cations compete for the EPS's functional groups and also accumulate inside the cell? *Microbiology-SGM*. 157:451-458. DOI:10.1099/mic.0.041038-0 - JCR® IF 2011: 3.061 - Q2
34. Pereira SB, **Zille A**, E Micheletti, P Moradas-Ferreira, R De Philippis, P Tamagnini (2009) Complexity of cyanobacterial exopolysaccharides: composition, structures, inducing factors and genes putatively involved in their biosynthesis and assembly. *FEMS Microbiology Reviews*. 3:917-941. DOI:10.1111/j.1574-6976.2009.00183.x - JCR® IF 2009: 9.783 - Q1
35. Dias-Franciscon E, **Zille A**, F Dias Guimaro, C Ragagnin de Menezes, L R Durrant, A Cavaco-Paulo (2009) Microaerophilic-aerobic sequential decolorization-biodegradation of textile azo dyes by a facultative *Klebsiella* sp. Strain vn-31. *Process Biochemistry*. 44:446-452. DOI:10.1016/j.procbio.2008.12.009 - JCR® IF 2009: 2.44 - Q2
36. Kim S, C Silva, **Zille A**, C Lopez, D Evtyugin, A Cavaco-Paulo (2009) Characterisation of Enzymatic Oxidised Lignosulphonates and their Application on Lignocellulosic Fabrics. *Polymer International*. 58:863-868. DOI:10.1002/pi.2600 - JCR® IF 2009: 2.14 - Q2
37. Dias-Franciscon E, **Zille A**, LR Durrant, F Fantinatti-Garbozzini, GM Guebitz, A Cavaco-Paulo (2009) Biodegradation of textile azo dyes by a facultative *Staphylococcus arlettae* strain vn-11 using a sequential microaerophilic-aerobic process. *Int. Biodeterioration & Biodegradation*. 63:280-288. DOI:10.1016/j.ibiod.2008.10.003 - JCR® IF 2009: 2.25 - Q2
38. Silva C, CJ Silva, **Zille A**, Guebitz G, A Cavaco-Paulo (2007) Laccase immobilization on enzymatically functionalized polyamide 6,6 fibres. *Enzyme and Microbial Technology*. 41:867-875. DOI:10.1016/j.enzmictec.2007.07.010 - JCR® IF 2007: 1.97 - Q2
39. Kim S, **Zille A**, M Murkovic, G Guebitz, A Cavaco-Paulo (2007) Enzymatic polymerization on the surface of functionalized cellulose fibers. *Enzyme and Microbial Technology*. 40:1782-1787. DOI:10.1016/j.enzmictec.2007.01.001 - JCR® IF 2007: 1.97 - Q2
40. **Zille A**, FD Munteanu, GM Guebitz, A Cavaco-Paulo (2005) Laccase polymerization of amino-phenol compounds. 229 POLY 331:U955. 229th ACS National Meeting, San Diego, USA. ACS Symposium Series. DOI: 10.13140/2.1.1323.9685 - JCR® IF 2005: 0.566 - Q2
41. **Zille A**, B Górnacka, A Rehorek, A Cavaco-Paulo (2005) Degradation of azo dyes by *Trametes villosa* laccase over long periods of oxidative conditions. *Applied and Environmental Microbiology*. 71:6711-6718. DOI:10.1128/AEM.71.11.6711-6718.2005 - JCR® IF 2005: 3.82 - Q1
42. **Zille A**, F Munteanu, GM Guebitz, A Cavaco-Paulo (2005) Laccase kinetics of degradation and coupling reactions. *Journal of Molecular Catalysis B: Enzymatic*. 33:23-28. DOI:10.1016/j.molcatb.2005.01.005 - JCR® IF 2005: 1.69 - Q2
43. **Zille A**, P Ramalho, T Tzanov, R Millward, V Aires, MH Cardoso, MT Ramalho, GM. Guebitz, A Cavaco-Paulo (2004) Predicting Dye Biodegradation from Redox Potentials. *Biotechnology Progress*. 20:1588-1592. DOI:10.1021/bp049963i - JCR® IF 2004: 1.64 - Q2
44. **Zille A**, T Tzanov, GM Guebitz, A Cavaco-Paulo (2003) Immobilized laccase for decolorization of Reactive Black 5 dyeing effluent. *Biotechnology Letters*. 25:1473-1477. DOI:10.1023/A:1025032323517 - JCR® IF 2003: 0.78 - Q3

45. Tzanov T, C Silva, **Zille A**, J Oliveira, A Cavaco-Paulo (2003) Effect of some process parameters in enzymatic dyeing of wool. *Applied Biochemistry and Biotechnology*. 111:1-14. DOI:10.1385/ABAB:111:1:1 - JCR® IF 2003: 0.69 - Q3

Conference Papers

1. Ribeiro AI, D Senturk, K Silva, M Modic, U Cvelbar, G Dinescu, B Mitu, A Nikiforov, C Leys, I Kuchakova, M Vanneste, P Heyse, M De Vrieze, A P Souto, **Zille A***. 2018. Efficient silver nanoparticles deposition method on DBD plasma-treated polyamide 6,6 for antimicrobial textiles. *IOP Conference Series: Materials Science and Engineering*. 460:012007. *Corresponding author. DOI: **10.1088/1757-899X/460/1/012007**
2. Song X, Vossebein L, **Zille A***. 2018. Structure properties change of ready-to-use nonwoven wiping materials over storage time. *IOP Conference Series: Materials Science and Engineering*. 460:012055. *Corresponding author. DOI: **10.1088/1757-899X/460/1/012055**
3. Da Silva Mendes S, **Zille A**, Bezerra FM, Camargo NRMF, Catarino APAW (2018) Preparation and characterization of gelatin/arabic gum microcapsules containing methyl salicylate deposited onto a cotton fabric. *Proceedings of Fiber Society 2018 Spring Conference: Fibers and Textiles for Value Creation in Connected Industries*. DOI: **10.6084/m9.figshare.9833453**
4. Ionita MD, Ionita ER, Satulu V, De Vrieze M, **Zille A**, Modic M, Mitu B, Nikiforov A, Leys C, Dinescu G (2017) Antibacterial nanocomposites based on Ag NPs and HMDSO deposited by atmospheric pressure plasma. *Proceedings of 23rd International Symposium on Plasma Chemistry (ISPC)*. DOI: **10.6084/m9.figshare.9833480**
5. Souza J, Matos J, Fernandes M, **Zille A**, Fangueiro R (2017) Coated chitosan onto gauze to efficient conditions for maintenance of the wound microenvironment. *Procedia Engineering*. 200:135-140. DOI: **10.1016/j.proeng.2017.07.020**.
6. Ribeiro AI, Modic M, Cvelbar U, Dinescu G, Mitu B, Nikiforov A, Leys C, Kuchakova I, Vanneste M, Heyse P, De Vrieze M, Carneiro N, Souto AP, **Zille A*** (2017) Double dielectric barrier (DBD) plasma-assisted deposition of chemical stabilized nanoparticles on polyamide 6,6 and polyester fabrics. *IOP Conference Series: Materials Science and Engineering* 254,10:102010. *Corresponding author. DOI: **10.1088/1757-899X/254/10/102010**
7. Yavuz G, **Zille A***, Seventekin N, Souto AP (2017). Structural coloration of chitosan-cationized cotton fabric using photonic crystals. *IOP Conference Series: Materials Science and Engineering* 254,10:102012. *Corresponding author. DOI: **10.1088/1757-899X/254/10/102012**
8. Do Carmo SN, **Zille A**, Souto AP (2017) Plasma-assisted deposition of microcapsule containing Aloe vera extract for cosmeo-textiles. In *IOP Conference Series: Materials Science and Engineering* 254,12:122007. DOI: **10.1088/1757-899X/254/12/122007**
9. Nikiforov A, Leys C, Kuchakova I, Vanneste M, Heyse P, De Vrieze M, **Zille A**, Dinescu G, Mitu B, Modic M, Cvelbar U (2017) Plasma Deposition of Antibacterial Nano-Coatings on Polymeric Materials. *ECS Transaction* 77(3): 53-61. DOI: **10.1149/07703.0053ecst**
10. Linhares T, **Zille A**, Soares G (2016) Enzymatic Enhanced Adhesion of Cellulosic Woven Fabrics Composites. *Vlákna a textile*. 23(3):112-116. DOI: **10.6084/m9.figshare.9833522**
11. Oliveira FR, Galvão FM, Nascimento JHO, Silva KKOS, Medeiros JI, **Zille A*** (2015) Photocatalytic Properties of Sisal Fiber Coated with Nano Titanium Dioxide. *Materials Today: Proceedings* 2:41-48. *Corresponding author. DOI: **10.1016/j.matpr.2015.04.006**

12. Nascimento JHO, Luz RF, Galvão FMF, Melo JDD, Oliveira FR, Ladchumananandasivam R, **Zille A*** (2015) Extraction and Characterization of Cellulosic Nanowhisker obtained from Discarded Cotton Fibers. *Materials Today: Proceedings* 2:1-7. *Corresponding author. **DOI: 10.1016/j.matpr.2015.04.001**
13. Santos C, Silva CJ, Büttel Z, Guimarães R, Pereira SB, Tamagnini P, **Zille A*** (2013) Fabrication and characterization of PVA, PVA/chitosan, and PVA/cyanobacterial exopolysaccharide nanofibrous composite nanofiltration membranes prepared by electrospinning. *Abstracts of Papers of the American Chemical Society* 245. PMSE-454. 245th ACS National Spring Meeting, New Orleans, USA. *Corresponding author. **DOI: 10.13140/2.1.2067.3928**
14. Martí M, **Zille A**, A Cavaco-Paulo, J Parra, L Coderch (2012) Laccases stabilization with phosphatidylcholine liposomes. *Journal of Biophysical Chemistry*. 3:81-87. **DOI:10.4236/jbpc.2012.31010**
15. Fernandes M, C Basto, **Zille A**, FD Munteanu, GM Guebitz, A Cavaco-Paulo (2006) Sono-enzymatic polymerization of catechol. *Abstracts of Papers of the American Chemical Society*. 232 POLY441. 232th ACS National Meeting, San Francisco, USA. **DOI: 10.13140/2.1.2241.4725**
16. Tzanov T, Prada E, Silva CJ, **Zille A**, Cavaco-Paulo, A (2003) Enzymatic Dyeing Of Keratinous Materials. *Chemicke Listy*. 97(6):510. **DOI: 10.13140/2.1.2405.3120 - JCR® IF 2003: 0.35 - Q4**

Peer-Reviewed Book Chapters

1. Kim S, **Zille A**, A Vasconcelos, A Cavaco-Paulo (2007) New Developments on Enzymatic treatments on Cellulosic Fibers. *ACS Symposium Series*. In: *Industrial Application of Enzymes on Carbohydrate-Based Material*. Oxford University Press, USA, pp. 186-192. **WOS:000269519600013 - DOI:10.1021/bk-2007-0972.ch013 - JCR® IF: Not listed.**
2. **Zille A**, Fernandes MM, Oliveira FR, Souto AP (2019) Plasma treatments used in advanced textile manufacturing. Training program and e-learning content (TEXSTRA e-book). Project “Textile Strategy for Innovative Higher Education” Erasmus+ KA 2 Strategic Partnership for Higher Education. Elsevier
3. **Zille A** (2019) Chapter 9: Plasma Technology in Fashion and Textiles. In “Sustainable Technologies for Fashion and Textiles” Edited by Nayak, Rajkishore, Elsevier
4. **Zille A**, Czerniak, MR, Raoux S. (2019) Chapter 8.3: Use of SF6 and PFCs in other products - Volume 3: Industrial Processes and Product Use. 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories. Edited by Intergovernmental Panel on Climate Change (IPCC), Geneva, Swiss.
5. **Zille A**, Czerniak, MR, Raoux S. (2019) Appendix 1: Possible approaches for estimating fluorinated compounds emissions from textile, carpet, leather and paper industries: basis for future methodological development - Volume 3: Industrial Processes and Product Use. 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories. Edited by Intergovernmental Panel on Climate Change (IPCC), Geneva, Swiss.

Thesis

1. **Zille A.** 2005. "Laccase Reactions for Textile Applications". **Ph.D in Textile Engineering - Textile Chemistry.** University of Minho, Portugal. **DOI: 10.13140/2.1.2536.3846**
2. **Zille A.** 2000. "Chemical, Hydrogeological and Geochemical characterization of a recent industrial dump area in Venice". **Bs/Ms in Environmental Science.** University of Venice, Italy. **DOI: 10.13140/2.1.5157.8245**

Invited Oral Communications

1. **Zille A,** Ribeiro AI, Souto AP "Atmospheric pressure dielectric barrier discharge (DBD) plasma deposition of silver nanocomposite on textiles for controllable antibacterial activity" MANUNET project industrial workshop "Recent advances in technical textiles " in the frame of the IXth International Conference TexTeh - Advanced Textiles for a better world, Capital Plaza Hotel, 23-25 October, 2019, Bucharest, Romania. **DOI: 10.6084/m9.figshare.10059395**
2. **Zille A,** "O futuro dos têxteis: a nanotecnologia e a biotecnologia ao serviço dos materiais fibrosos". ENTEQUI - 11th National Meeting of Chemical Technology. Universidade Federal do Piauí, 11-13 September, 2019, Teresina, Brazil. **DOI: 10.6084/m9.figshare.9833123. Keynote speaker.**
3. **Zille A,** "Plasma-assisted deposition of antimicrobial silver nanoparticles on medical textiles" Invited lecture at the iTechStyle Summit 2019 - Internacional Conference on Textile & Clothing. April 02-04, 2019, Porto, Portugal. **DOI: 10.6084/m9.figshare.9833636**
4. **Modic M,** D Nikiforov A, Leys C, Kuchakova I, De Vrieze M, Petrovska M, **Zille A,** Dinescu G, Mitu B, Cvelbar U "(Invited) Atmospheric Pressure Plasma and Depositions of Antibacterial Coatings" Invited lecture at the 233rd Electrochemical Society (ECS) Meeting. May 13-17, 2018, Seattle, WA, USA. **DOI:10.13140/RG.2.2.28482.22729**
5. **Zille A,** Inaugural lesson of the 2018 Post-Graduation Program in Textile Engineering, March 4th 2018, Universidade Federal do Rio Grande do Norte, Natal, Brazil. **DOI: 10.13140/RG.2.2.11705.01128. Keynote speaker.**
6. Souto AP, **Zille A,** Yavuz G "Structural Coloration in Textiles" 13 February 2017, Porto, Portugal. iTechStyle Summit 2017 - Internacional Conference on Textile & Clothing. **DOI: 10.13140/RG.2.2.23046.37443**
7. **D Nikiforov A,** Leys C, Kuchakova I, Vanneste M, Heyse P, De Vrieze M, **Zille A,** Dinescu G, Mitu B, Modic M, Cvelbar U "D02-1031: (Invited) Plasma Deposition of Antibacterial Nano-Coatings on Polymeric Materials" Invited lecture at the 231st Electrochemical Society (ECS) Meeting. May 28-June 1, 2017, New Orleans, USA. **DOI: 10.13140/RG.2.2.31854.41280**
8. **Zille A** "Innovation with nanotechnology" 26 March 2015, Universidade do Minho, Guimarães (Portugal). Workshop "From the Knowledge to the Market - Textile" organized by the Fibrenamics network. **DOI: 10.13140/RG.2.1.2691.2809**
9. **Zille A** "Application of Biotechnology in Textile" 30 July 2014, Natal (Brasil). SETEX - 3rd Week of Textile Engineering. Universidade Federal do Rio Grande do Norte, Natal, Brazil. **DOI: 10.13140/2.1.3140.5446. Keynote speaker.**
10. **Zille A** "How to write a scientific paper". 25 July 2014. Department of Textile Engineering. Universidade Federal do Rio Grande do Norte, Natal, Brazil. **DOI: 10.13140/2.1.1993.6649**
11. **Zille A** "Application of nanotechnology in Textile" 1 August 2014, Natal (Brasil). SETEX - 3rd Week of Textile Engineering. Universidade Federal do Rio Grande do Norte, Natal,

Brazil. DOI: 10.13140/2.1.3566.5282

12. **Zille A** "Usos e abusos dos recursos naturais - Biorremediação e energia" April 2013, Porto (Portugal). AEICBAS Biomedical Congress: an innovative multidisciplinary approach to life sciences. DOI: 10.13140/2.1.4688.8328
13. **Zille A** "Thin-layer nanofiltration membranes using engineered biopolymers for seawater desalination pretreatment process" February 2012, Porto (Portugal). IBMC Post-Doc Seminars 2012. DOI: 10.13140/2.1.1731.5208
14. **Zille A** "Biofuels production using photosynthetic microorganisms" July 2008, Lisbon (Portugal). Ciência 2008 - Encontro com a Ciência em Portugal. DOI: 10.13140/2.1.3304.3842
15. **Zille A**, C Basto, SY Kim, A Cavaco-Paulo "Laccase-catalyzed Polymerization for Coating and Material Modification", September 2006, Oeiras (Portugal). The 3rd European Meeting in Oxizymes. DOI: 10.13140/2.1.3552.1920

Others Oral Communications

1. **Fertuzinhos A**, Teixeira M, Dias I, Flores P, **Zille A**, Dourado N. 2019. On the mechanical characterization of bovine bone tissue under compressive loading. 8^o Nacional Congress of Biomechanics, 15-16 February 2019, Unhais da Serra, Covilhã, Portugal. DOI: 10.6084/m9.figshare.10311131
2. **Zille A**, Raoux, S. 2019. Basis for developing a methodology to estimate fluorinated GHG emissions from the fluorinated treatment of textile, carpet, leather, and paper. NCGG8 2019 - 8th International Symposium on Non-CO2 Greenhouse Gases. 12-14 June 2019, Hotel Casa, Amsterdam, The Netherlands. DOI: 10.13140/RG.2.2.24706.43208
3. Ferreira EF, Eiras C, Mendes de Sousa J, **Zille A**, Garcia Valadares Souto, AP. 2019. Modified cotton textile with hap-AgNPs nanocomposite aiming antimicrobial properties for medical textile gown. ICNF 2019 - 4th International Conference on Natural Fibers. 1-3 July 2019, Alfandega do Porto, Porto, Portugal. DOI: 10.13140/RG.2.2.25964.72326
4. Braga C, Sampaio AR, Peixoto J, **Zille A**, Silva CJ. 2019. Effects of cellulose nanofibrils on the structure and properties of poly(vinyl alcohol) electrospun nanofibres. ICNF 2019 - 4th International Conference on Natural Fibers. 1-3 July 2019, Alfandega do Porto, Porto, Portugal. DOI: 10.13140/RG.2.2.20931.55849
5. Antunes Barros AA, Rocha Cardoso AP, Rodrigues AC, **Zille A**, Silva CJ. 2019. Optimizing enzymatic dyeing of wool and leather. ICNF 2019 - 4th International Conference on Natural Fibers. 1-3 July 2019, Alfandega do Porto, Porto, Portugal. DOI: 10.13140/RG.2.2.36031.05288
6. **Ribeiro AI**, Modic M, Cvelbar U, Dinescu G, Mitu B, Nikiforov A, Leys C, Kuchakova I, Vanneste M, Heyse P, De Vrieze M, Carneiro N, Souto AP, **Zille A**. 2019. Atmospheric-pressure plasma spray deposition of Silver/HMDSO nanocomposite on polyamide 6,6 with controllable antibacterial activity. IconTex 2019 - 2nd International Congress of Innovative Textile, 17-18 April 2019 in Hilton Garden Inn Corlu, Tekirdag , Turkey.
7. **Ribeiro AI**, Modic M, Cvelbar U, Dinescu G, Mitu B, Nikiforov A, Leys C, Kuchakova I, Vanneste M, Heyse P, De Vrieze M, Carneiro N, Souto AP, **Zille A**. 2019. Plasma-assisted deposition of antimicrobial silver nanoparticles on medical textiles. TechStyle Summit 2019 International Conference on Textile and Clothing, APRIL 2-4, 2019, Porto Cruise Terminal, Portugal.

8. Cvelbar U, Co-authors Anton Yu Nikiforov, Martina Modic, Iryna Kuchakova, Nataša Hojnik, Maria Daniela Ionita, Bogdana Mitu, Mike De Vrieze, Gheorghe Dinescu, **Zille A**, Christophe Leys. Design of antibacterial coating composites with plasma. COPSA 2018 - Conference On Cold Plasma Sources and Applications, 19-23 November 2018, Ypres, Belgium
9. Ribeiro AI, D Senturk, K Silva, M Modic, U Cvelbar, G Dinescu, B Mitu, A Nikiforov, C Leys, I Kuchakova, M Vanneste, P Heyse, M De Vrieze, A P Souto, **Zille A**. 2018. Efficient silver nanoparticles deposition method on DBD plasma-treated polyamide 6,6 for antimicrobial textiles. 18th World Textile Conference "AUTEX 2018", 20-22 June, 2018, Istanbul, Turkey.
10. Mitu B, Ionita MD, Ionita ER, Satulu V, Nikiforov A, De Vrieze M, **Zille A**, Modic M, Leys C, Dinescu G. 2017. *Atmospheric pressure plasma deposition of antibacterial nanocomposites*, 8th International Workshop on Polymer-Metal Nanocomposites, 12-15 September 2017, Prague, Czech Republic.
11. Yavuz G, **Zille A**, Ozdogan E, Seventekin N, Souto AP, 2017. Using Photonic Crystals for Structural Coloration of Textiles. XIVth International Izmir Textile and Apparel Symposium, Izmir, Turquia. <http://hdl.handle.net/1822/46710>
12. Sampaio ML, Padrão J, Faria J, Silva JP, Silva CJ, Dourado F, **Zille A** "Antimicrobial enzyme immobilization in bacterial cellulose" 3rd International Conference on Natural Fibers (ICNF 2017), 21-23 June 2017, Meliã Braga Hotel & Spa, Braga, Portugal. **DOI:** 10.13140/RG.2.2.15596.56964
13. Souza J, Fernandes M, **Zille A**, Fangueiro R "A new generation of bioactive dressings for wound-healing management" 3rd International Conference on Natural Fibers (ICNF 2017), 21-23 June 2017, Meliã Braga Hotel & Spa, Braga, Portugal. **DOI:** 10.13140/RG.2.2.24824.03841
14. Souza J, Matos J, Fernandes M, **Zille A**, Fangueiro R "Coated chitosan onto gauze to efficient conditions for maintenance of the wound microenvironment" 3rd International Conference on Natural Fibers (ICNF 2017), 21-23 June 2017, Meliã Braga Hotel & Spa, Braga, Portugal. **DOI:** 10.13140/RG.2.2.31534.92487
15. Nikiforov A, Kuchakova I, Vanneste M, Heyse P, De Vrieze M, **Zille A**, Dinescu G, Mitu B, Cvelbar U, Modic M, Leys C "Antibacterial composite coatings of metal nano-particles on textiles and plastics for medical applications" 2th European conference on Innovations in textiles for health care, 7-8 February, 2017, Monastery of the Augustinian Fathers, Gent, Belgium. **DOI:** 10.13140/RG.2.2.32793.21603
16. Yavuz G, **Zille A**, Seventekin N, Souto AP "Structural coloration of chitosan-cationized cotton fabric using photonic crystals" 17th World Textile Conference "AUTEX 2017" - Textiles - Shaping the Future, 29-31 May, 2017, Corfu Holiday Palace Hotel, Corfu, Greece. **DOI:** 10.13140/RG.2.2.27030.96324
17. Nascimento do Carmo S, **Zille A**, Souto AP "Plasma-assisted deposition of microcapsule containing *Aloe vera* extract for cosmeo-textiles" 17th World Textile Conference "AUTEX 2017" - Textiles - Shaping the Future, 29-31 May, 2017, Corfu Holiday Palace Hotel, Corfu, Greece. **DOI:** 10.13140/RG.2.2.30386.40642
18. **Zille A** "Size Effects on Antimicrobial Efficiency of DBD Plasma Coated Silver Nanoparticles on Textiles" 1-3 February 2017, Porto, Portugal. NanoPT 2017 International Conference. **DOI:** 10.13140/RG.2.2.32515.09768
19. **Zille A** "Cellulose nanowhisker obtained from cotton rejected by textile industry" 27-29 April 2015, São Miguel, Azores (Portugal). ICNF 2015 - 2nd International Conference on Natural Fibers, April 27-30 2015, Ponta Delgada, Azores, Portugal.

DOI: 10.13140/RG.2.1.1609.8724

20. Oliveira FR, **Zille A**, AP Souto “Reuse of effluent from dyeing process of polyamide fibers modified by Double Barrier Discharge (DBD) Plasma” 16-18 July 2014, Porto (Portugal). International Congress on Water, Waste and Energy Management. **DOI:** 10.13140/2.1.2911.1689
21. **Santos C**, CJ Silva, Z Büttel, R Guimarães, P Tamagnimi, **Zille A** “Preparation and characterization of polysaccharides/PVA blend nanofibrous membranes prepared by electrospinning” September 2013, Torino (Italy). Smart & Functional Coatings European Conference. **DOI:** 10.13140/2.1.4426.6889

International Conference Abstract and Posters

1. **Song X**, Vossebein L, **Zille A**. “Storage Time Effects on The Bactericidal Activity of Quats Disinfectant-Impregnated Wipes”. 5th International Conference on Prevention & Infection Control (ICPIC 2019), 10-13 June, 2019, Geneva, Switzerland. **DOI:** 10.6084/m9.figshare.9852293
2. **Song X**, Vossebein L, **Zille A**. “Structure properties change of ready-to-use nonwoven wiping materials over storage time”. 18th World Textile Conference “AUTEX 2018”, 20-22 June, 2018, Istanbul, Turkey. **DOI:** 10.6084/m9.figshare.9971489
3. **Silva IO**, Nascimento, JHO Ladchumananandasivam R, Silva KKOS, Barros LPRC, **Zille A**. “Surface modification of bamboo fibers using chitosan and functionalization with AuNPs” XVI Simposio Latinoamericano de Polímeros (SLAP 2018) and XIV Congreso Iberoamericano de Polímeros (CIP 2018), 6-9 November 2018, Mar del Plata, Argentina.
4. **Ionita MD**, Ionita ER, Satulu V, De Vrieze M, **Zille A**, Modic M, Mitu B, Nikiforov A, Leys C, Dinescu G. 2017 Antibacterial nanocomposites based on Ag NPs and HMDSO deposited by atmospheric pressure plasma, 23rd International Symposium on Plasma Chemistry from July 30th to August 4th, 2017, Montréal, Canada.
5. **Ionita MD**, Ionita ER, Satulu V, Lazea-Stoyanova A, Mitu B, Dinescu G, Modic M, Cvelbar U, Kuchakova I, Nikiforov A, Leys Y, **Zille A**, De Vrieze M. 2017. Atmospheric pressure plasma deposition of antimicrobial coatings using ZnO nanoparticles embedded in organosilicon films deposited on textile surfaces, Poster L.12.25, 2017 E-MRS Spring Meeting, Strasbourg, France.
6. **Jurov A**, Krstulović N, Modic M, Hojnik N, Nikiforov A, **Zille A**, Leys C, Cvelbar U. “Plasma-Laser Assisted Synthesis of Nanoparticles for Antibacterial Coatings” XXXIII International Conference on Phenomena in Ionized Gases (ICPIG), July 9-14, 2017, Estoril, Lisbon, Portugal. **DOI:** 10.13140/RG.2.2.36339.02082
7. **Ribeiro AI**, M Modic, U Cvelbar, G Dinescu, B Mitu, A Nikiforov, C Leys, I Kuchakova, M Vanneste, P Heyse, M De Vrieze, N Carneiro, A P Souto, **Zille A**. “Double Dielectric Barrier (DBD) plasma-assisted deposition of chemical stabilized nanoparticles on polyamide 6,6 and polyester fabrics” 17th World Textile Conference “AUTEX 2017” - Textiles - Shaping the Future, 29-31 May, 2017, Corfu Holiday Palace Hotel, Corfu, Greece. **DOI:** 10.13140/RG.2.2.28079.53921
8. **Zille A**, Fernandes MM, Francesko A, Tzanov T, Fernandes M, Oliveira FR, Almeida L, Amorim T, Carneiro N, Esteves F, Silva CJ, Souto AP “Size and aging effects on antimicrobial efficiency of silver nanoparticles coated on polyamide fabrics activated by atmospheric DBD plasma” Abstracts of Papers of the American Chemical Society. COLL 373. 253th ACS National Meeting, April 2-6, 2017, San Francisco, USA.

DOI: 10.13140/RG.2.2.33951.56482

9. Linhares T, **Zille A**, G Soares “Enzymatically Enhanced Adhesion of Cellulosic Woven Fabrics Composites” IFATCC - XXIV International congress, 13-16 June 2016, Pardubice, Czech Republic.
DOI: 10.13140/RG.2.2.11737.93285
10. Sampaio A, C Santos, C Silva, D Coelho, **Zille A** “Preparation and characterization of polysaccharides/PVA blend nanofibrous membranes prepared by Electrospinning” 6th Workshop on Green Chemistry and Nanotechnologies in Polymer Chemistry, 15-17 July 2015, Bragança, Portugal. **DOI:** 10.13140/RG.2.1.3161.4804
11. Fernando R Oliveira, Késia KO Souto, Tábhita LT da Silva, José HO do Nascimento, Marcos S de Aquino, **Zille A*** “Study of Tinctorial Behaviour of Curaua and Banana Fibres” ICNF 2015 - 2nd International Conference on Natural Fibers, April 27-30 2015, Ponta Delgada, Azores, Portugal. **DOI:** 10.13140/RG.2.1.2396.3040
12. Oliveira FR, **Zille A**, F Steffens, AP Souto “Plasma Technology Applied in Textile Industry” ICSMVA 2014 - 1st Iberoamerican Congress On Surface, Materials And Vacuum Applications, October 21-24 2014, Natal, Brazil. **DOI:** 10.13140/2.1.4158.5923
13. Coelho D, A Sampaio, CJ Silva, **Zille A** “Antibacterial electrospun poly(vinyl alcohol)/enzymatic synthetized poly(cathecol) nanofibrous membranes” 8th International Conference On Polymer And Fiber Biotechnology, May 25-27 2014, Braga, Portugal. **DOI:** 10.13140/2.1.2427.8400
14. Santos C, CJ Silva, R Guimarães, Z Büttel, P Tamagnini, **Zille A** “Alkaline and acid polysaccharides blend nanofibrous membranes prepared by electrospinning” Smart & Functional Coatings European Conference, September 26-27 2013, Torino, Italy. **DOI:** 10.13140/2.1.3902.4009
15. Büttel Z, R Guimaraes, C Santos, CJ. Silva, SB. Pereira, R Mota, P Tamagnini, **Zille A** “Thin-layer nanofiltration membranes using engineered biopolymers for seawater desalination pre-treatment processes” International Conference on Nanoscience & Nanotechnology - NanoPT February 13-15, 2013. Porto, Portugal. **DOI:** 10.13140/2.1.2591.6806
16. Mota R, R Guimarães, Z Büttel, F Rossi, G Colica, CJ Silva, C Santos, L Gales, **Zille A**, R De Philippis, SB Pereira, P Tamagnini “Extracellular polymeric substances (EPS) from Cyanothecce sp. CCY 0110: conditions influencing the production and characterization of the polymer” 14th International Symposium on Phototrophic Prokaryotes - ISPP 2012, 5-10 August, Porto, Portugal. **DOI:** 10.13140/2.1.1403.8407
17. Lopo M, A Montagud, E Navarro, I Cunha, **Zille A**, P Fernández de Córdoba, P Moradas-Ferreira, P Tamagnini, J F Urchueguía “Experimental and Modeling Analysis of Synechocystis sp. PCC 6803 Growth” 14th International Symposium on Phototrophic Prokaryotes - ISPP 2012, 5-10 August, Porto, Portugal. **DOI:** 10.13140/2.1.2845.6327
18. Guimarães R, **Zille A**, MV Mendes “Laccases from Streptomyces coelicolor” 1-3/12/2011, Microbiotec11 meeting, University of Minho, Braga, Portugal. **DOI:** 10.13140/2.1.3107.7766
19. Mota R, R Guimarães, Zille A, CJ Silva, C Santos, L Gales, S Pereira, P Tamagnini “Extracellular polymeric substances (EPS) produced by Cyanothecce sp. CCY 0110: inducing factors, characteristics and gene transcription” 28/8 - 1/9 2011, Naantali, Finland. 8th European Workshop on Molecular Biology of Cyanobacteria. **DOI:** 10.13140/2.1.3869.6320
20. Pereira S, **Zille A**, E Micheletti, P Moradas-Ferreira, R De Philippis & P Tamagnini “Selective removal of copper and lead by the EPS of the cyanobacterium Gloeothecce sp.

- PCC 6909 and its sheathless mutant” 23-27/05/2010, 20th SETAC Europe Annual Meeting, Sevilha, Espanha. **DOI:** 10.13140/2.1.3804.0967
21. Pereira S, Brito A, **Zille A**, Moradas-Ferreira P & Tamagnini P “Genes putatively involved in the synthesis of cyanobacterial exopolysaccharides” 9-14/8/2009, 13th International Symposium on Phototrophic Prokaryotes, Montréal, Canada. **DOI:** 10.13140/2.1.2624.4487
 22. **Zille A**, Dias-Franciscon E, Durrant LR, Fantinatti-Garboggini F, Cavaco-Paulo A “Biodegradation of textile azo dyes by a facultative Klebsiella sp. strain VN-31 using a sequential microaerophilic/aerobic process” June-July 2009, Gothenburg (Sweden). FEMS 2009. 3rd Congress of European Microbiologists. **DOI:** 10.13140/2.1.3093.4404
 23. Pereira S, Â Brito, **Zille A**, P Moradas-Ferreira, P Tamagnini “Identification of genes putatively involved in the synthesis of cyanobacterial exopolysaccharides” September 2008, Ceske Budejovice (Czech Republic). 7th European Workshop on the Molecular Biology of Cyanobacteria. **DOI:** 10.13140/2.1.4033.4724
 24. Marti M, **Zille A**, A Cavaco-Paulo, L Coderch, J L Parra “Enzyme Stabilization with Liposomes”. April 2008, Barcelona (Spain). Detergency and Cometics, C.E.D. 38º Annual Meeting. **DOI:** 10.13140/2.1.2569.1527
 25. Micheletti E, S Pereira, F Mannelli, **Zille A**, P Moradas-Ferreira, P Tamagnini, R De Philippis “Cyanobacterial Exopolysaccharides (EPS) For Heavy Metal Removal” December 2007, London (UK). International Conference on Biodegradable Polymers. **DOI:** 10.13140/2.1.4819.9042
 26. Marti M, **Zille A**, D Moldes, A Cavaco-Paulo, JL Parra, L Coderch “Optimisation of laccase encapsulation in liposomes for the surface treatments of textiles”, October 2007, Wuxi (China). The 5th International Conference on Textile Biotechnology. **DOI:** 10.13140/2.1.4928.4488
 27. **Zille A**, D Moldes, R Irgoliç, A Cavaco-Paulo “Enhanced Stability of Laccase by Xylitol”, September 2006, Oeiras (Portugal). The 3rd European Meeting in Oxizymes. **DOI:** 10.13140/2.1.4404.1608
 28. **Zille A**, B Górnacka, A Rehorek, A Cavaco-Paulo “Degradation of Azo Dyes by Trametes villosa Laccase under Long Time Oxidative Conditions” September 2006, Oeiras (Portugal). The 3rd European Meeting in Oxizymes. **DOI:** 10.13140/2.1.2962.3681
 29. **Zille A**, B Górnacka, A Rehorek, A Cavaco-Paulo “Degradation of Azo Dyes by Laccase Under Long Time Oxidative Conditions”, April 2006, Cordoba (Spain). EnvBc - International Symposium on Environmental Biocatalysis. **DOI:** 10.13140/2.1.1979.3288
 30. **Zille A**, P Ramalho, T Tzanov, R Millward, V Aires, M H Cardoso, M T Ramalho, G M Gübitz, A Cavaco-Paulo “Redox Biodegradation of Azo Dyes”, June 2006, Seul (Korea). The 4th International Conference on Textile Biotechnology. **DOI:** 10.13140/2.1.4797.3764
 31. **Zille A**, T Tzanov, GM Gübitz, A Cavaco-Paulo “Immobilized laccase for decolourization of Reactive Black 5 dyeing effluent”, June 2004, Graz (Austria). The 3rd International Conference on Textile Biotechnology. **DOI:** 10.13140/2.1.1749.9520

National Conference Abstract and Posters

1. Mota R, R Guimarães, Z Büttel, F Rossi, G Colica, CJ Silva, C Santos, L Gales, **Zille A**, R De Philippis, SB Pereira, P Tamagnini “Extracellular polymeric substances (EPS) produced by

- Cyanothece sp. CCY 0110: inducing factors, genes and characteristics” I3S Retreat 2012, Póvoa do Varzim, Portugal. **DOI:** 10.13140/2.1.4680.6409
2. Mota R, R Guimarães, **Zille A**, CJ Silva, C Santos, L Gales, S Pereira, P Tamagnini “Extracellular polymeric substances (EPS) from Cyanothece sp. CCY 0110: conditions influencing their production and EPS characterization” 1-3/12/2011, Microbiotec11 meeting, University of Minho, Braga, Portugal. **DOI:** 10.13140/2.1.3607.4881
 3. Pereira S, **Zille A**, E Micheletti, P Moradas-Ferreira, R De Philippis, P Tamagnini “Removal of copper and lead by the EPS - producing cyanobacterium Gloeotheca sp. PCC 6909 and its sheathless mutant” November 2009, FEUP-ICBAS, Porto (Portugal). 1as Jornadas da Bioengenharia (IJB). **DOI:** 10.13140/2.1.2362.3047
 4. **Zille A**, E Franciscon, F Dias Guimaro, C Ragagnin de Menezes, L R Durrant, A Cavaco-Paulo “Biodegradation of textile azo dyes by a facultative Staphylococcus arlettae strain VN-11 using a sequential microaerophilic/aerobic process” 15-17/12/2010, Porto Portugal. XVII Congresso Nacional de Bioquímica. **DOI:** 10.13140/2.1.1493.9524
 5. Pereira S, **Zille A**, E Micheletti, P Moradas-Ferreira, R De Philippis, P Tamagnini “Cyanobacteria Extracellular Polymeric Substances (EPS) and interaction with heavy metals” 15-17/12/2010, Porto Portugal. XVII Congresso Nacional de Bioquímica. **DOI:** 10.13140/2.1.2649.0240
 6. Pereira S, A Brito, **Zille A**, P Moradas-Ferreira, P Tamagnini “Identification of genes putatively involved in the synthesis of cyanobacterial exopolysaccharides” 2nd IBMC Scientific Retreat. April 2009, Póvoa do Varzim, Portugal. **DOI:** 10.13140/2.1.2124.7362
 7. Pereira S, A Brito, **Zille A**, P Moradas-Ferreira, P Tamagnini “Identification of genes putatively involved in the synthesis of cyanobacterial exopolysaccharides” 2008, S. Miguel, Açores (Portugal). XVI National Congress of Biochemistry. **DOI:** 10.13140/2.1.1862.5924

Investigation Reports

1. **Zille A**, A Cavaco-Paulo “SWP4.1 : Functionalisation of cellulosic fibres: Characterization of laccase oxidation of lignosulfonates in presence of lignocellulosic substrates”, March 2007, Paris (France). Biorenew U.E. project. **DOI:** 10.13140/2.1.3879.8723
2. **Zille A**, A Cavaco-Paulo “High-Energy Micro-Environments Applications in Textiles (HEMEAT)”, June 2006, Hamburg (Germany). COST action D32 Midterm evaluation meeting. **DOI:** 10.13140/2.1.1651.6486
3. **Zille A**, F Munteanu, A Cavaco-Paulo “Laccases Mechanisms”, November 2004, Póvoa do Varzim (Portugal). Workshop of Cost Action 847 & D32. **DOI:** 10.13140/2.1.2798.5286
4. **Zille A**, O Aixelà, C Basto, M Reis, A Cavaco-Paulo “Characterization and stability of free and immobilized Laccase in the Dyestar dyeing effluent”, March 2002, Aachen (Germany). Bioefftex U.E. project. **DOI:** 10.13140/2.1.2470.8484
5. **Zille A**, M Reis, A Cavaco-Paulo “Immobilization of laccase from Trametes hirsuta on alumina and decolourisation of textile dyes for colour removal on effluent”, October 2001, Helsinki (Finland). Bioefftex U.E. project. **DOI:** 10.13140/2.1.2732.9923
6. Basto C, M Fernandes, Zille A, A Cavaco-Paulo “Sono-enzymatic coloration of wool”, June 2006, Hamburg (Germany). COST D32 action. **DOI:** 10.13140/2.1.4535.2323
7. **Zille A**, FD Munteanu, GM Gübitz, A Cavaco-Paulo “Enzymatic dyeing of wood”, April 2005, Baiona (Spain). Biotechnology for Pulp and Paper Manufacture: From Tailor-Made Biocatalysts to Mill Application. COST E23 action. **DOI:** 10.13140/2.1.2765.7604

8. Gornacka B, Zille A, A Cavaco-Paulo, A Rehorek “LC-MS characterization of intermediates and products of acid orange dyes after laccase treatment“, November 2004, Povia de Varzim (Portugal). COST 847 & D32 actions. **DOI:** 10.13140/2.1.3322.8162
9. Tzanov T, CJ Silva, Zille A, GM Guebitz, A Cavaco-Paulo “Effect of the process parameters in enzymatic dyeing of wool“, October 2002, Como (Italy). COST 847 action. **DOI:** 10.13140/2.1.1946.5606

Teaching Experience

- **Professor** of the Textile Engineering PhD Program at the University of Minho, Guimarães, Portugal. Course in “Advanced Materials Characterization”. From 2019 - Ongoing. Guimarães, Portugal. 20 hours.
- **Invited Professor** of the Master in Textile Engineering at the Universidade Federal do Rio Grande do Norte, Natal, Brazil. Course in “Smart and Functional Textiles”, 1-12 March 2018. Natal, Brazil. 30 hours.
- **Workshop** “Advanced training Course on Technical and Functional Textiles” at the Fibrenamics international platform of the University of Minho, 5-6 February 2017. Guimarães, Portugal. 12 hours
- **Workshop** “Advanced training Course on Technical and Functional Textiles” at the Fibrenamics international platform of the University of Minho, 5-6 February 2016. Guimarães, Portugal. 12 hours.
- **Workshop** “How to write a scientific paper” at the Universidade Federal do Rio Grande do Norte, Natal, Brazil. 9 March 2018. 2 hours.
- **Invited Professor** at the Master Course on Environmental Law. University of Venice, Fondazione Giorgio Cini, Villa Herion, Giudecca, Venice, Italy. 2000. “Fundamentals of Hydrogeology”. 2 hours.

Supervising Experience

Post-Doc Researchers

- Post-Doc researcher. Késia Karina De Oliveira Souto Silva “Advanced membranes for the treatment of textile effluents”. 2C2T (University of Minho), 2017. Supervisor.

Ph.D. Students

- PhD student. Behnaz Mehravani. “Antimicrobial gold nanoparticle/polymer electrospun nanocomposites with sandwich-like structure for wound dressing applications “PhD in Textile Engineering. (University of Minho), Ongoing. Supervisor.
- PhD student. Aureliano da Costa Fertuzinhos. “Numerical and experimental characterization of the mechanical behaviour of human nasal cartilages: dynamic and static responses” PhD in Mechanical Engineering. (University of Minho – MIT Portugal), Ongoing. Co-Supervisor

- PhD student. Filipa Monteiro. “Advance textile preforms for multifunctional artificial reef” PhD in Naval Engineering. (University of Corunha, Spain), Ongoing. Co-Supervisor
- PhD student. Ana Isabel Ribeiro. “Atmospheric-pressure plasma deposition of antimicrobial hybrid nanocomposites for biomedical textiles” PhD in Textile Engineering. (University of Minho), Ongoing. Supervisor. FCT grant nº SFRH/BD/137668/2018
- PhD student. Xinyu Song. “Ready-to-use nonwoven disinfectant wipes to prevent nosocomial infections: the influence of the wiping materials on disinfection efficacy” PhD in Textile Engineering. (University of Minho), Ongoing. Supervisor. FCT grant nº SFRH/BD/130028/2017
- PhD student. Jefferson Mendes Sousa. “Development of essential oil nanoparticles with biological activity for textile application” PhD in Textile Engineering. (University of Minho), 2018. Supervisor

Master Students

- Master Student. Ana Filipa de Almeida Vasques Alves “Desenvolvimento de estruturas compósitas para mimetização funcional de cartilagens da região do nariz humano” Master in Biomedical Engineering (University of Minho), Ongoing. Co-Supervisor.
- Master Student. David Lira “Plasma double dielectric barrier discharge (DBD) deposition of nanoparticles in polymer matrix tissue” Master in Micro and Nanotechnology (University of Minho), December 2015. Supervisor.
- Master Student. Jorge Faria “Enzymes and nanoparticles included in multilayer polyelectrolytes for antimicrobial surfaces” Master in Micro and Nanotechnology (University of Minho), December 2015. Supervisor.
- Master Student. Ana Rita Costa Ferreira “Multifunctional self-cleaning Textiles using multilayer immobilized enzymes and nanoparticles” Master in Micro and Nanotechnology (University of Minho), December 2014. Co-supervisor.
- Master Student. Maria de Nazaré Marques Cunha “Imobilization and stabilization of enzymes and silver nanoparticles for antimicrobial and antibiofilm formulations” Master in Micro and Nanotechnology (University of Minho), December 2014. Supervisor.
- Master Student. Liliana Margarida Pinto Sampaio “Enzymes and nanoparticles assembled in multilayer polyelectrolytes for biomedical textiles” Master in Micro and Nanotechnology (University of Minho), December 2014. Supervisor.
- Master Student. Rodrigo Soares Guimarães “Laccases from *Streptomyces* spp. Assembling a protein collection” Master in Biochemistry (University of Porto), 2010. Supervisor.

Undergraduate Students

- Supervisor of undergraduate student Dilara Senturk from Ege University, Turkey under the Erasmus+ Traineeship programme. 25/09/2017 - 26/01/2018.
- Supervisor of undergraduate student Andreza Bernades da Silva from Universidade Federal do Rio Grande do Norte, Brazil under the Erasmus+ Traineeship programme. 20/02/2017- a 01/08/2017
- Laboratorial supervisor of undergraduate students: Oriol Aixalá (2002), Enrique Prada Barceló (2003), Domenec Ferrer (2004), Aitor Gual (2004), Stella Kalantzi (2005), Ramona Irgoliç (2005).

- Laboratorial supervisor of graduate students: Su Yeon Kim (2007), Elisangela Franciscan (2009), Rodrigo Soares Guimarães (2008-2010), Zsofia Büttel (2010-2012), Dilara Senturk (2017-2018).

Participation in Examination Committees

- PhD Thesis Defense of Ivaylo Stefanov “Multifunctional Enzymatically-Generated Hydrogel Platforms for Chronic Wound Application”. PhD in Chemical Engineering (Technical University of Catalonia), 2019. External Examiner.
- PhD Thesis Defense of Daniel Martínez Filgueira “Biotecnología aplicada a la modificación de materiales lignocelulósicos: mejora de las propiedades superficiales y elaboración de biocomposites para impresión 3D”. PhD in Chemical Engineering (University of Vigo), 2018. External Examiner.
- PhD Thesis Mid-Term evaluation of Marta Susana Machado Fernandes. “Desenvolvimento de Compósitos de Celulose Bacteriana como Alternativa ao Couro” PhD in Textile Engineering. (University of Minho), 2018. Examiner.
- PhD Thesis Mid-Term evaluation of Christiane Siqueira De Azevedo Sá “Encapsulamento de óleos essenciais em biopolímero para aplicações em materiais têxteis com atividade antimicrobiana” PhD in Mechanical Engineering (University of Rio Grande do Norte, Brazil), 2018. External Examiner.
- PhD Thesis Defense of Petya Stoyanova Petkova “Surface nano-structured materials to control bacterial contamination”. PhD in Chemical Engineering (Technical University of Catalonia), 2016. External Examiner.
- PhD Thesis Mid-Term evaluation of Iris Oliveira da Silva “Nanoestruturas plasmônicas e sua aplicação em nanobiotecnologia têxtil: avaliação antimicrobiana e de citotoxicidade” PhD in Mechanical Engineering (University of Rio Grande do Norte, Brazil), 2016. External Examiner.
- PhD Thesis Mid-Term evaluation of Shama Parveen “Microstructure and Mechanical Properties of Cementitious Composites Reinforced with Nanomaterials”. PhD in Polymer Engineering (University of Minho), 2014. Examiner.
- PhD Thesis Mid-Term evaluation of Aloysio Gomes de Souza Filho. “Utilização de Nanocelulose para Reforço de Matrizes Cimentícias” PhD in Textile Engineering. (University of Minho), 2015. Examiner.
- PhD Thesis Mid-Term evaluation of Jefferson Mendes Sousa. “Development of essential oil nanoparticles with biological activity for textile application” PhD in Textile Engineering. (University of Minho), 2015. Examiner.
- Master Thesis Defence of António Rafael Ferreira Vieira “Desenvolvimento de uma cozinha com materiais ecológicos” Master in Design and product development (Polytechnic Institute of Cávado and Ave), 2014. External Examiner.
- Master Thesis Defence of Cátia Sofia Neves Braga “Production of renewable base fibers by electrospinning technique” Master in Biological Engineering (University of Minho), 2015. Examiner.
- Master Thesis Defence of Regina Andreia Torres Malgueiro “Development of Biocompatible Fibers for Controlled Release of Active Agents” Master in Biological Engineering (University of Minho), 2015. External Examiner.

- PhD Thesis Defense of Maria Fernandez “Laccase immobilization: methods and potential industrial applications”. PhD in Chemical Engineering (University of Vigo), 2013. External Examiner.
- PhD Thesis Defense of Gaffar Hossain “Biotechnical functionalization of protein fibres”. PhD in Chemical Engineering (Technical University of Catalonia), 2011. External Examiner.
- PhD Thesis Defense of Carlos Díaz Blanco “Biotechnical and biomimetic approaches for coating of textile surfaces and enhancement of cleaning formulations”. PhDs in Chemical Engineering (Technical University of Catalonia), 2011. External Examiner.

Referee Services

- <https://publons.com/researcher/1284926/andrea-zille/peer-review/>
- R&D projects evaluation: National Strategic Reference Framework. Portugal 2020 and QREN - Portugal 2007-2013
- R&D projects evaluation. Project public call 001/2016. State University of Maringá, Brazil.
- Advances in Biochemical Engineering/Biotechnology-Springer book series

References

- **Prof. Dr. Ana Maria Moreira Ferreira Rocha**
University of Minho
- **Prof. Dr. Pedro Moradas-Ferreira**
IBMC - Instituto de Biologia Molecular e Celular
- **Prof. Dr. Tzanko Tzanov**
Technical University of Catalonia (UPC)
- **Prof. Dr. Georg Gübitz**
University of Natural Resources and Life Sciences

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