

CURRICULUM VITAE

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EDUCATION

Ph. D. INDUSTRIAL ENGINEERING (1997/2001)

University of Cantabria. Department of Chemical Engineering and Inorganic Chemistry.
Thesis: "Comportamiento ambiental de lodo de fundición estabilizado/solidificado
(*Environmental behavior of stabilized/solidified foundry sludge*)".

Names of Supervisors: Angel Irabien, Ana Andrés.

INDUSTRIAL ENGINEERING (1992-1997)

University of Cantabria (with honors).

AWARDS AND HONORS

- DCU Language Services Ltd. **Dublin City University (DCU)**, Ireland, Short EMI Course under Internationalization Vice-rectorate partial Grant, 2020
- Spanish Leadership on Circular Economy and Innovation. Advanced Leadership Foundation. 2018
- Visiting Prof. fellowships. AUIP, UC and UCC. Universidad Cooperativa de Colombia, 2018.
- Short Term Scientific Mission. Cost Action FP1306. UCL, London. 2016.
- "Best Paper Award". ISB-INMA-TEH International Symposium, Bucharest, Romania, 2015.
- Short Term Scientific Mission. Cost Action FP1205. Aalto University. 2014.
- Research Fellow. Imperial College London. 2011.
- Postdoctoral research Fellow. Technical University of Crete. 2004-2006.
- Erasmus grant for teachers. Technical University of Crete. 2005.
- Cantabria University Pre-Doctoral Fellow. 1998-2001.
- Marcelino Botín Foundation, Pre-Doctoral Trainee Grant. 1998.
- Talca University. Research Grant. 1998.
- University of Cantabria – Fundimotor Mecobusa. Research Fellowship. 1997-1998.
- Education and Science Ministry. Research Fellowship. 1996-1997.
- University of Cantabria. Research Trainee Grant. 1996.
- Marcelino Botín Foundation, Scholarship. 1992-1997.
- University of Cantabria. Industrial Engineering. Honor Award.
- Derivados del Flúor. Research Award. 1996.
- Official College of Industrial Engineering. Academic Project Award 'Francisco Mirapeix'. 1998.

DOCTORATE COURSES (320 HOURS)

- Tecnologías Avanzadas en el Tratamiento de Aguas. "*Advanced Technologies on Wastewater Treatment*" 1997-98.
- Caracterización y Gestión de Residuos. "*Characterization and Management of Solid Waste*" 1997-1998.
- Tecnologías de Control de Partículas. "*Particle Control Technologies*" 1997-1998.
- Análisis del Ciclo de Vida. "*Life Cycle Analysis*" 1997-1998.
- Tecnologías de Reutilización de Contaminantes. "Reuse Technologies of Pollutants" 1997-1998.
- Minimización de Efluentes Contaminantes. "*Waste Minimization*" 1997-1998.
- Desulfuración de Gases. "*Gas Desulfurization*" 1998-1999.
- Caracterización de Partículas. "*Particle Characterization*" 1998-1999.
- Tecnologías de Membranas. Ultra y Microfiltración. "*Membrane Technologies. Ultra and Microfiltration*" 1998-1999.
- Simulación y Optimización de Procesos Químicos. "*Simulation and Optimization of Chemical Processes*" 1998-1999.

OTHER COURSES

- Curso de verano. La basura convertida en música: luthería, reciclaje y creación musical. Universidad de Cantabria, Noja, 2019.
- Curso de verano. Cómo escribir en los nuevos tiempos para los nuevos medios. Curso de creación literaria de la mano de Espido Freire. Universidad de Cantabria, Laredo, 2018.
- Cursos Escritura Creativa. Escuela de Escritores, on-line, Madrid. 2017
- Curso Microrrelatos. Escuela de Escritores, on-line, Madrid. 2017
- Curso Quiero ser youtuber. Escuela Bitácoras, on-line, 2017
- Curso plataformas y medios sociales para la investigación. Universidad de Cantabria, Santander. 2017.
- Curso Crea tu web con WordPress. Escuela Bitácoras, on-line. 2017.
- Curso Curación de contenidos. Escuela Bitácoras, on-line. 2017.
- Curso de Verano. Contar la ciencia. Técnicas escénicas y de narración oral para la comunicación escrita. Universidad de la Rioja, Logroño, 2016.
- Taller: escribiendo propuestas europeas. "Workshop: writing european proposals". Santander. 2015.
- Leaching Assessment and LeachXS, Course of the 4th International Conference on Industrial and Hazardous Waste Management. Chania, Greece. Dr. Hans Van der Sloot. 2014.
- Geochemical Modeling Workshop, K.U.Leuven, Belgium. Dr. Geert Cornelis. 2011.
- Curso de formación del profesorado: WebCT para profesores y asistentes de profesor. "Faculty's formation course: WebCT for teachers and teacher assistants". 2004.
- Curso de formación del profesorado: el arte de hablar. Prevención de riesgos de voz. "Faculty's formation course: the art of speaking. Prevention of voice risks" 2004.
- Perspectivas de la ciencia y la tecnología en España y en Europa. "Perspectives of Science and Technology in Europe and Spain". 2004.
- Tratamiento de bases cartográficas - MicroStation. "Treatment of Cartographic Bases - MicroStation". 2003.
- Curso de formación de profesorado: recursos de información electrónica. "Faculty's formation course: resources of electronic information". 2002.
- Seguridad en Laboratorios. "Security in Laboratories". 2001.
- Programación Matemática en Ingeniería y Ciencia. "Mathematical Programming for Engineering and Science". 2001.
- Síntesis y optimización de Procesos Químicos. "Synthesis and optimization of chemical processes". Prof. Ignacio Grossman (University Carnegie Mellon). 2001.
- Metalurgia Básica. "Basic Metallurgy". 1999.
- Curso de Verano: Aguas Residuales Industriales. "Summer Course: Industrial Wastewater". 1999.

PROGRAMMING LANGUAGES

Operative Systems:	DOS, UNIX, Windows.
Programming languages:	BASIC, Fortran, LISP, GAMS, gPROMS.
Aplications:	Office, BBDDs, Corel Draw, AutoCAD, MicroStation.
Simulation and optimisation:	GAMS, gPROMS.
Geo-chemical and leaching:	Visual Minteq, Leach XS, Phreeqc.

PROFESSIONAL EXPERIENCE

September 10-present: Associate Professor. Department of Chemistry and Resource & Process Engineering. University of Cantabria.

March 06-September 10: Lecturer. Department of Chemical Engineering and Inorganic Chemistry. University of Cantabria.

October 00-March 06: Teaching Assistant. Department of Chemical Engineering and Inorganic Chemistry. University of Cantabria.

Industrial Engineering Bachelor and Master: Chemical Engineering Fundamentals; Environmental Pollution; Industrial Chemistry; Industrial Eco-innovation: Waste and Resource Efficiency.

Chemical Engineering Bachelor and Master: Experiments for Chemical Engineers; Waste Management; Environmental Aspects in Industrial Activities.

Naval Engineering Bachelor: Chemistry; Marine Chemistry; Analysis of Water, Fuel and Lubricant; Effect of Waste on Marine Environment.

Chemical Engineering Doctorate: Characterization, Control and Management of Industrial Waste;

Senior program: Chemistry in our life, Chemistry for Criminal Investigation, Ecology and Environment.

February-September 05 and June-September 06: Post-doctoral Research Fellowship. Project "Physico-chemical and toxicological characterization of marine sediments and their mathematical modeling". Technical University of Crete. Greece.

March 99-October, 00: Research Fellowship. Project: "Development of waste/binder formulations for the solidification/stabilization of foundry sludge". Cantabria University. Fundimotor-Mecobusa, S.A.

November 97-March 99: Research Grant. Department of Chemistry. Cantabria University. "Characterization and Management of Industrial Waste".

July-November 98: Research Grant. Talca University. Chile.

November-December 97: Training in a foundry company. Fundimotor-Mecobusa S.A.
November 96-June 97: Research Grant. Department of Chemistry. University of Cantabria.
June-October 96: Research Trainee Grant. Department of Chemistry. University of Cantabria.
January-June 95: Practice of Management Administration: Directivos'95.

PUBLICATIONS

Summary

Number of special issues edited in peer-reviewed journals:	1
Number of papers published in peer-reviewed journals:	50 (20 with International Collaboration)
Number of citations:	624
h Index:	16
Number of conference publications:	126
Number of conference publications on teaching innovation:	2
Other publications (papers, books and chapters):	12
Number of patents	1

Editor of special issues in peer-reviewed journals

1. WASCON 2015: Resource Efficiency in Construction. Editors: C. Vandecastelle, A. Andrés, A. Coz. *Waste and Biomass Valorization*, 8, 1379-1530, **2017**. I.I.: 1.337 (2016). Q2

Papers in peer-reviewed journals

1. Use of green solvents as pre-treatment of dissolving pulp to decrease CS₂ consumption from viscose production. C. Arce, T. Llano, S. González, A. Coz. *Cellulose*, in press, **2020**. I.I.: 4.210 (2019). Q1
2. Technical and environmental improvement of the bleaching sequence of dissolving pulp for fibre production. C. Arce, T. Llano, P. García, A. Coz. *Cellulose*, 27, 4079-4090, **2020**. I.I.: 4.210 (2019). Q1
3. Modelling and Optimization of the Last Two Stages of an Environmentally-Compatible TCF Bleaching Sequence. T. Llano, C. Arce, G. Ruiz, N. Chenna, A. Coz. *Bioresources*, 13(3): 6642-6662, **2018**. I.I.: 1.409 (2019). Q2
4. Sugar, acid and furfural quantification in a sulphite pulp mill: feedstock, product and hydrolysate analysis by HPLC/RID. T. Llano, N. Quijorna, A. Andrés, A. Coz. *Biotechnology Reports*, 15, 75-83, **2017**. Open Access: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5503906/>
5. Detoxification of a Lignocellulosic Waste from a Pulp Mill to Enhance Its Fermentation Prospects. T. Llano, N. Quijorna, A. Coz. *Energies*, 10(3), 348, **2017**. I.I.: 2.262 (2016). Q2 Open Access: <http://www.mdpi.com/1996-1073/10/3/348>
6. Physico-Chemical Alternatives in Lignocellulosic Materials in Relation to the Kind of Component for Fermenting Purposes. A. Coz, T. Llano, E. Cifrián, J. Viguri, E. Maican, H. Sixta. *Materials*, 9(7), 574, **2016**. I.I.: 2.654 (2016). Q2 Open Access: <http://www.mdpi.com/1996-1944/9/7/574/>
7. Technoeconomic assessment of different liquor biorefinery approaches for a spent sulfite. C. Rueda, M. Marinova, J. Paris, G. Ruiz, A. Coz. *Journal of Chemical Technology and Biotechnology*, in press, DOI 10.1002/jctb.4868, **2016**. I.I.: 3.135 (2016). Q1
8. Liquid-liquid extraction of phenolic compounds from spent sulphite liquor. T. Llano, M. Alexandri, A. Koutinas, Chr. Gardeli, H. Papapostolou, A. Coz, N. Quijorna, A. Andres, M. Komaitis. *Waste and Biomass Valorization*, 6, 1149-1159, **2015**. I.I.: 1.337 (2015) Q3
9. Hydrolysis and separation of lignocellulosic biomass in a sulphite process to valorise the main fractions within the biorefinery concept. A. Coz, T. Llano, C. Rueda, N. Quijorna, E. Maican. *INMATEH-Agricultural Engineering*, ISSN 2344 – 4118, October, 223-228, **2015**.
10. Energy efficient technologies for lignocellulosic ethanol production. E. Maican, J.A. Teixeira, M. Ferdeş, A. Coz. *INMATEH-Agricultural Engineering*, ISSN 2344 – 4118, October, 435-446, **2015**.
11. Spent sulfite liquor fractionation into lignosulfonates and fermentable sugars by ultrafiltration. J. Fernández-Rodríguez, A. García, A. Coz, J. Labidi. *Separation and Purification Technology*, 152, 172-179, **2015**. I.I.: 3.299 (2015). Q1
12. Evolution of lignocellulosic macrocomponents in the wastewater streams of a sulfite pulp mill: a preliminary biorefining approach. T. Llano, N. García-Quevedo, N. Quijorna, J.R. Viguri, A. Coz. *Journal of Chemistry*, vol. 2015, Article ID 102534, 10 pages, **2015**. I.I.: 0.996 (2015). Q3 Open Access: <http://www.hindawi.com/journals/jchem/2015/102534/>
13. Biorefinery options to valorize the spent liquor from sulfite pulping. C. Rueda, P.A. Calvo, G. Moncalián, G. Ruiz, A. Coz. *Journal of Chemical Technology and Biotechnology*, 90(12), 2218-2226, **2015**. I.I.: 2.738 (2015). Q1
14. Influence of input variables over the wood digestion in a sulfite pulp mill for biorefinery purposes. C. Rueda, C. Tejedor, N. Quijorna, A. Andrés, A. Coz. *Journal of Biology and Life Sciences*, Vol. 2(2), **2015**. Open Access: <http://www.macrothink.org/journal/index.php/jbls/article/view/8015>
15. Metal Release from Contaminated Estuarine Sediment Under pH Changes in the Marine Environment. M.C. Martín-Torre, M.C. Payán, B. Verbinen, A. Coz, G. Ruiz, C. Vandecasteele, J.R. Viguri. *Archives of Environmental Contamination and Toxicology*, 68 (3), 577-587, **2015**. I.I.: 2.039 (2015). Q2
16. Monosaccharide production in an acid sulfite process: Kinetic modeling. C. Rueda, J. Fernández-Rodríguez, G. Ruiz, T. Llano, A. Coz. *Carbohydrate Polymers*, 116,18-25, **2015**. I.I.: 4.219 (2015). Q1

17. *Fractionation of spent sulphite liquor into monomeric sugars and lignosulphonates by an ultrafiltration series system.* J. Fernández-Rodríguez, A. García, A. Coz, J. Labidi. *Chemical Engineering Transactions*, 45, 553-558, **2015**. Open Access: <http://www.aidic.it/cet/15/45/093.pdf>
18. *The use of leaching tests to assess metal release from contaminated marine sediment under CO₂ leakages from CCS.* M.C. Martín-Torre, M.C. Payán, B. Galán, A. Coz, J.R. Viguri. *Energy Procedia*, 51, 40-47, **2014**.
19. *Pb and Zn release from intertidal marine sediment in contact with acidified CO₂ seawater: mathematical model for column leaching tests.* M.C. Payán, B. Galán, G. Ruiz, A. Coz, J.R. Viguri. *Chemical engineering Science*, 95, 85-93, **2013**. I.I.: 2.613. **Q1**
20. *Study of the delignification of hardwood chips in a pulping process for sugar production.* T. Llano, C. Rueda, N. Quijorna, A. Blanco, A. Coz. *Journal of Biotechnology*, 162(4), 422-429, **2012**. I.I.: 3.183. **Q2**
21. *Evaluation through column leaching tests of metal release from contaminated estuarine sediment subject to CO₂ leakages from Carbon Capture and Storage sites.* M.C. Payán, B. Galán, A. Coz, C. Vandecasteele, J.R. Viguri. *Environmental Pollution*, 171, 174-184, **2012**. I.I.: 3.730. **Q1**
22. *Recycling of Waelz slag and waste foundry sand in red clay bricks.* N. Quijorna, A. Coz, A. Andrés, C. Cheeseman. *Resources, Conservation and Recycling*, 65, 1-10, **2012**. I.I.: 2.319. **Q1**
23. *Potential influence of CO₂ release from a carbon capture storage site on release of trace elements from marine sediments.* M.C. Payán, B. Verbinen, B. Galán, A. Coz, C. Vandecasteele, J.R. Viguri. *Environmental Pollution*, 162, 29-36, **2012**. I.I.: 3.730. **Q1**
24. *Recycling of foundry by-products in the ceramic industry: Green and core sand in clay bricks.* R. Alonso-Santurde, A. Coz, J.R. Viguri, A. Andrés. *Construction and Building Materials*, 27(1), 97-106, **2012**. I.I.: 2.293. **Q1**
25. *Management scenarios for olive oil mill waste based on characterization and leaching tests.* A. Coz, M. Villegas, A. Andrés, J.R. Viguri, D. Mantzavinos, N.P. Xekoukoulotakis. *Journal of Chemical Technology and Biotechnology*, 86(12), 1542-1547, **2011**. I.I.: 2.168. **Q1**
26. *Biomarker responsiveness in different tissues of caged *Ruditapes philippinarum* and its use within an integrated sediment quality assessment.* J. Ramos-Gómez, A. Coz, J.R. Viguri, A. Luque, M.L. Martín-Díaz, T.A. DelValls. *Environmental Pollution*, 159(7), 1914-1922, **2011**. I.I.: 3.746. **Q1**
27. *Estimation of construction and demolition waste (C&DW) generation and multicriteria analysis of C&DW management alternatives: A case study in Spain.* M. Coronado, E. Dosal, A. Coz, J.R. Viguri, A. Andrés. *Waste and Biomass Valorization*, 2(2), 209-225, **2011**.
28. *Indicators for Valorisation of Municipal Solid Waste and Special Waste.* E. Cifrian, A. Coz, J.R. Viguri, A. Andrés. *Waste and Biomass Valorization*, 1(4), 479-486, **2010**.
29. *Peracetic acid-enhanced photocatalytic and sonophotocatalytic inactivation of *E. coli* in aqueous suspensions.* C. Drosou, A. Coz, N.P. Xekoukoulotakis, A. Moya, Y. Vergara, D. Mantzavinos. *Journal of Chemical Technology and Biotechnology*, 85(8), 1049-1053, **2010**. I.I.: 1.818. **Q1**
30. *Stabilization/solidification of an alkyd paint waste by carbonation of waste-lime based formulations.* R. Arce, B. Galán, A. Coz, A. Andrés, J. R. Viguri. *Journal of Hazardous Materials*, 177(1-3), 428-436, **2010**. I.I.: 3.723. **Q1**
31. *Valorization of Foundry Sand in Clay Bricks at Industrial Scale.* R. Alonso-Santurde, A. Coz, N. Quijorna, J.R. Viguri, A. Andrés. *Journal of Industrial Ecology*, 14(2), 217-230, **2010**. I.I.: 2.446. **Q1**
32. *Influence of commercial and residual sorbents and silicates as additives on the stabilisation/solidification of organic and inorganic industrial waste.* A. Coz, A. Andrés, S. Soriano, J. R. Viguri, M.C. Ruiz, J.A. Irabien. *Journal of Hazardous Materials*, 164 (2-3), 755-761, **2009**. I.I.: 4.144. **Q1**
33. *Physico-chemical characterisation of bricks all through the manufacture process in relation to efflorescence salts.* A. Andrés, M.C. Díaz, A. Coz, M.J. Abellán, J. R. Viguri. *Journal of the European Ceramic Society*, 29, 1869-187, **2009**. I.I.: 2.090.
34. *Sustainable management options and beneficial uses for contaminated sediments and dredged material.* M. Alvarez-Guerra, E. Alvarez-Guerra, R. Alonso-Santurde, A. Andrés, A. Coz, J. Soto, J. Gómez-Arozamena, J. R. Viguri. *Fresenius Environmental Bulletin*, 17(10A), 1539-1553, **2008**. I.I.: 0.463.
35. *Toxicity bioassays in core sediments from the Bay of Santander, northern Spain.* A. Coz, O. Rodríguez-Obeso, R. Alonso-Santurde, M. Álvarez-Guerra, A. Andrés, J.R. Viguri, D. Mantzavinos, N. Kalogerakis. *Environmental Research*, 106(3), 304-312, **2008**. I.I.: 3.038. **Q1**
36. *Physico-chemical and toxicological characterization of the historic estuarine sediments: A multidisciplinary approach.* J.R. Viguri, M.J. Irabien, I. Yusta, J. Soto, J. Gómez, P. Rodriguez, M. Martinez-Madrid, J.A. Irabien, A. Coz. *Environment International*, 33, 436-444, **2007**. I.I.: 2.797. **Q1**
37. *Physico-chemical and environmental characterisation of sediments from Cantabrian estuaries (northern Spain).* A. Coz, C. González-Piñuela, A. Andrés, J. R. Viguri. *Aquatic Ecosystem Health & Management*, 10(1), 41-46, **2007**. I.I.: 0.237.
38. *Influence of the organic compounds on the ecotoxicity in the treatment of foundry sludge and olive mill waste.* A. Coz, D. Mantzavinos, P. Karageorgos, N. Kalogerakis, A. Andrés, J.R. Viguri, A. Irabien. *Annali di Chimica*, 96(9-10), 505-514, **2006**. I.I.: 0.516.
39. *Environmental quality control in portland cement: raw materials, clinker and mortars.* P. Beltran, A. Coz, A. Andrés, A. Irabien, M. Larrion, C. Gutierrez-Cañas and J. A. Legarreta. *Fresenius Environmental Bulletin*, 15(9A), 1081-1086, **2006**. I.I.: 0.452.
40. *PAHs composition and sources in surface and core sediments from the Santander Bay (northern Spain).* C. González-Piñuela, A. Coz, A. Andrés and J. Viguri. *Fresenius Environmental Bulletin*, 15(9A), 1031-1036, **2006**. I.I.: 0.452.
41. *Management of scientific and technical knowledge: the spanish sediment network "intersed".* O. Rodríguez-Obeso, P. Gutiérrez-Perojo, C. González-Piñuela, A. Coz, A. Andrés, J. Viguri, M. J. Belzunce and A. Del Valls. *Fresenius Environmental Bulletin*, 15(8A), 816-821, **2006**. I.I.: 0.452.

42. *Electrochemical treatment of textile dyes and dyehouse effluents*. E. Chatzisyneon, N. P. Xekoukoulotakis, A. Coz, N. Kalogerakis, D. Mantzavinou. *Journal of Hazardous Materials* 137(2), 998-1007, **2006**. I.I.: 1.855. Q1
 43. *Ozonation of weathered olive mill wastewater*. P. Karageorgos, A. Coz, M. Charalabaki, N. Kalogerakis, D. Mantzavinou. *Journal of Chemical Technology and Biotechnology*, 81, 1570-1576, **2006**. I.I.: 1.276. Q1
 44. *Environmental behaviour of stabilised foundry sludge*. A. Coz, A. Andrés, S. Soriano, A. Irabien. *Journal of Hazardous Materials*, 109(1-3), 95-104, **2004**. I.I.: 1.433. Q1
 45. *Ecotoxicity assessment of stabilized/solidified foundry sludge*. A. Coz, A. Andrés, A. Irabien. *Environmental Science & Technology*, 38(6), 1897-1900, **2004**. I.I.: 3.557. Q1
 46. *Tratamiento de efluentes fenólicos procedentes de la industria de la celulosa mediante procesos de oxidación avanzada*. A. Coz, J. Villaseñor. *Ingeniería Química*, 35(397), 104-114, **2003**. I.I.: 0.094.
 47. *Lagooning of waste from iron activities: characterisation and evaluation*. C. Ruiz, J. Viguri, A. Andrés, A. Coz, J. A. Irabien. *Fresenius Environmental Bulletin*, 11(10B), 921-926, **2002**. I.I.: 0.309.
 48. *Environmental characterisation of mixed organic/inorganic wastes: leaching behavior*. A. Andrés, R. Aldaco, A. Coz, C. Ruiz, J. R. Viguri, J. A. Irabien. *Fresenius Environmental Bulletin*, 11(10B), 844-848, **2002**. I.I.: 0.309.
 49. *Treatment of foundry sludges by stabilization/solidification with cement and siliceous binders*. A. Andrés, M. Fdez. de Velasco, A. Coz, C. Ruiz, J. R. Viguri, J. A. Irabien. *Fresenius Environmental Bulletin*, 11(10B), 849-853, **2002**. I.I.: 0.309.
 50. *Vertical distribution of organic matter (TOC, LOI) and PAHs in marine sediments*. J. Viguri, A. Andrés, C. Leiva, A. Coz, A. Irabien. *Fresenius Environmental Bulletin*, 10(2), 150-154, **2001**. I.I.: 0.297.
- (I.I.: Impact Index)

Conference Proceedings

1. *Cellulose reactivity enhancement by TCF bleaching and DES treatment for viscose production*. C. Arce, T. Llano, A. Coz. 1st International Conference on Cellulose Fibres. Cologne, **2020**.
2. *Time to the coffee break: Can coffee waste materials be used in a circular economy?* A. Coz, C.L. Burgos, V. Bárcena, C. Arce, T. Llano, R.F. Colmenares-Quintero, L.F. La Torre, G. Maestre-Gongora. II International Congress on Biorefineries and Renewable Energies supported on ICT BRESICT, Bucaramanga, Colombia. 14-16, **2020**.
3. *Acid depolymerization of cell wall polysaccharides from Ulvan-rich extracts of green seaweeds*. T. Llano, C. Macías, A. Trancho, J. Robles, N.L. Arroyo, A. Coz. II International Congress on Biorefineries and Renewable Energies supported on ICT BRESICT, Bucaramanga, Colombia. 51-54, **2020**.
4. *Depolymerization of sulfate polysaccharides obtained from green algae to study the extraction of the ulvan bioproduct*. C. Macías, R. Arce, A. Coz, J. Robles, N.L. Arroyo, T. Llano. International Solid Waste Association ISWA 2019 World Congress. Bilbao, España, **2019**.
5. *Deep Eutectic Solvent Treatment of Industrial Dissolving Pulp for Viscose Production*. C. Arce, T. Llano, A. Coz. 1st International Meeting on Deep Eutectic Systems, Lisbon, Portugal, **2019**.
6. *Molecular weight distribution of waste fish hydrolysates through HPLC-DAD*. T. Llano, A.I. Portilla, J. Viguri, L. Ariztegi, I. Aramburu, A. Coz. 4º Congreso Iberoamericano sobre Biorrefinerías. CIAB, Jaén, España, **2018**.
7. *Lignocellulosic waste pretreatment with deep eutectic solvents*. C. Arce, E. Maican, T. Llano, M. Ferdes, A. Coz. 4º Congreso Iberoamericano sobre Biorrefinerías. CIAB, Jaén, España, **2018**.
8. *Case study of R&D&I in a pulp mill to be integrated as a forest biorefinery*. A. Coz, T. Llano, C. Rueda, C. Arce, G. Ruiz. Biorefineries and renewable energies supported in ITC: business opportunities based on technologies and innovation. Medellín, Colombia, **2018**.
9. *Alternatives of waste valorisation of a sulphite pulp mill in construction materials*. C. Arce, T. Llano, J. Dacuba, A. Andrés, A. Coz. Tenth International Conference on the Environmental and Technical Implications of Construction with Alternative Materials, WASCON 2018. Tampere, Finland, **2018**.
10. *Optimisation of a dissolving pulp bleaching sequence towards its valorisation*. C. Arce, T. Llano, G. Ruiz, N. Chenna, A. Coz. 7th International Conference on Engineering for Waste and Biomass Valorisation WasteEng. Prague, Czech Republic, **2018**.
11. *Lignocellulosic materials used as art surfaces: cellulose fibres*. B. Fernández-Secadas, C. Arce, I. Rodríguez-Díaz, A. Coz. Fourth Workshop & Fifth MC Meeting of the FP1306 COST Action, Thessaloniki, Greece, **2018**.
12. *Transformación de una fábrica de pasta celulósica en una biorrefinería: caracterización, fraccionamiento y vías de valorización del licor gastado*. T. Llano, C. Rueda, A. Coz. VII Simposio Iberoamericano en ingeniería de residuos: hacia una economía circular, Santander, **2017**.
13. *Sugar substrate production from pulp mill waste*. A. Coz, T. Llano, C. Rueda, G. Ruiz, C. Arce, H. Sixta. Third Workshop & Fourth MC Meeting of the FP1306 COST Action, Torremolinos, Spain, **2017**.
14. *Dissolving pulp quality during alkaline extraction and peroxide bleaching steps*. T. Llano, C. Arce, A. Coz. Characterization of Nanocellulose. COST Action FP1205 – Innovative applications of regenerated wood cellulose fibres, Potsdam, Germany, **2017**.
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113. *Procesos de estabilización/solidificación de lodos de fundición de carácter mixto (orgánico-inorgánico). Parte I: parámetros físicos y biológicos*. A. Coz, A. Andrés, C. Ruiz, J. Viguri, A. Irabien. CIMA 2001. Chile. **2001**.
114. *Procesos de estabilización/solidificación de lodos de fundición de carácter mixto (orgánico-inorgánico). Parte II: parámetros químicos*. A. Coz, A. Andrés, C. Ruiz, J. Viguri, A. Irabien. CIMA 2001. Chile. **2001**.
115. *Lagooning of waste from iron activities: characterisation and evaluation*. C. Ruiz, J. Viguri, A. Andrés, A. Coz, J. A. Irabien. MESAEP & SECOTOX 2001. Cyprus. **2001**.
116. *Environmental characterisation of mixed organic/inorganic wastes: leaching behavior*. A. Andrés, R. Aldaco, A. Coz, C. Ruiz, J. R. Viguri, J. A. Irabien. MESAEP & SECOTOX 2001. Cyprus. **2001**.

117. *Treatment of mixed organic/inorganic wastes using cement/siliceous additives based stabilisation/solidification*. A. Andrés, M. Fdez. de Velasco, A. Coz, C. Ruiz, J. R. Viguri, J. A. Irabien. MESAEP & SECOTOX 2001. Cyprus. **2001**.
118. *Optimum leachability of stabilisation/solidification of foundry sludges using cement and different siliceous materials*. A. Andrés, M. Fdez de Velasco, A. Coz, C. Ruiz, J. R. Viguri, J. A. Irabien. VARIREI 2001. Italy. **2001**.
119. *Tecnologías de control de la contaminación atmosférica por SO₂ procedente de centrales térmicas de combustión de carbón*. J. A. Marqués, M. C. Ruiz, A. Coz. INGENA 2001. Spain. **2001**.
120. *Tratamiento de compuestos orgánicos con óxido de calcio con fines de vertido*. M. C. Ruiz, A. Coz, A. Andrés, A. Irabien. Reunión Científico-Técnica sobre Contaminación del Suelo y Subsuelo por Productos Orgánicos: Aspectos Legales y Técnicos. Spain. **2000**.
121. *Utilización de distintos procesos de oxidación avanzada y estudio de variables en la degradación de fenol*. J. Villaseñor, A. Coz. XXIII Jornadas Chilenas de Química. Chile. **1999**.
122. *Phenol removal by O₃/TiO₂ advanced oxidation process*. A. Coz, J. Villaseñor. 8º Congreso Mediterráneo de Ingeniería Química. Spain. **1999**.
123. *Vertical distribution of organic matter (TOC, LOI) and PAHs in marine sediments*. J. Viguri, A. Andrés, C. Leiva, A. Coz, A. Irabien. MESAEP. Spain. **1999**.
124. *Biotreatment of foundry sludges: study of feasibility*. A. Andrés, A. Coz, C. Ruiz, C. De Miguel, A. Irabien. EMChIE'99. Poland. **1999**.
125. *Evaluation of Portland cement-electric arc furnace dust waste forms on base of physical properties*. A. Andrés, A. Coz, I. Somarriba, J. Viguri, A. Irabien. MATERIAIS'99. Portugal. **1999**.
126. *Comparison of extraction technologies in hollow fibre modules trough process simulation*. A. I. Alonso, A. Coz, A. M. Urriaga, I. Ortiz. CHISA'98. Czech Republic. **1998**.

Conference Proceedings on Teaching Innovation

1. *Desarrollo de una asignatura de Proyecto de Diseño de Producto*. B. Galan, G. Ruiz, A. Andrés, A. Coz y J.R. Viguri. II Congreso de Innovación Docente en Ingeniería Química. Valencia, Spain, **2014**.
2. *Casos Prácticos Industriales de Modelado, Simulación y Optimización de Procesos Químicos*. G. Ruiz, A. Andrés, A. Coz, B. Galán y J. Viguri. II Congreso de Innovación Docente en Ingeniería Química. Valencia, Spain, **2014**.

Other publications not included in Conference Proceedings:

1. *Book of abstracts of the 9th International conference on the environmental and technical implications of construction with alternative materials. WASCON 2015. Resource efficiency in construction*, Ed. A. Andrés, A. Coz, M. Arm, J. Heynen, J. Stegemann, C. Vandecasteele. ISBN: 978-84-606-8422-0. Tratamiento Gráfico del Documento, Santander, 158 pp., **2015**.
2. *Book of extended abstracts of the 9th International conference on the environmental and technical implications of construction with alternative materials. WASCON 2015. Resource efficiency in construction*, Ed. A. Andrés, A. Coz, M. Arm, J. Heynen, J. Stegemann, C. Vandecasteele. ISBN: 978-84-606-8423-7. Tratamiento Gráfico del Documento, Santander, 432 pp., **2015**.
3. *El Punto Focal de Residuos de Cantabria: un ejercicio de transparencia en la gestión y divulgación de los datos obtenidos en materia de residuos en nuestra región*. A. Andrés, E. Cifrián, M.L. Coronado, A. Coz, E. Dosal, J.R. Viguri. Medio Ambiente Cantabria Informa, 32, 11-18, **2011**.
4. *Colaboración en las Guías Académicas de Ingeniería Técnica Naval y Diplomatura en Máquinas Navales*. (ISBN: 978-84-690-5959-3). Escuela Técnica Superior de Náutica. 2007, **2008**.
5. *Colaboración en las Guías Académicas de Diplomatura en Navegación Marítima*. (ISBN: 978-84-690-5957-9). Escuela Técnica Superior de Náutica. 2007, **2008**.
6. *Libro de resúmenes de las II Jornadas INTERSED. Caracterización y gestión de sedimentos y dragados*. Eds: A. Andrés, M. J. Belzunce, A. Coz, A. Del Valls, J. R. Viguri. (ISBN 84-690-0395-X). Tratamiento Gráfico del Documento. Universidad de Cantabria. **2006**.
7. *Evaluación ambiental de lodos de fundición estabilizados/solidificados*. A. Coz, On line http://www.tdr.cesca.es/index_tdx_cs.html (ISBN 84-8102-407-4). TDR. **2005**.
8. *Red de intercambio de conocimiento sobre sedimentos "INTERSED"*. P. Gutiérrez-Perojo, A. Andrés, M.J. Belzunce, A. Coz, T.A. del Valls, C. González-Piñuela, O. Rodríguez-Obeso, J. Viguri. Medio Ambiente RETEMA, Noviembre-Diciembre, 30-36, **2005**.
9. *Pretratamiento al vertido de residuos industriales orgánicos e inorgánicos: procesos de estabilización/solidificación con cal*. A. Coz, C. Ruiz, A. Andrés, J. Viguri, A. Irabien. Acidificación de suelos y aguas: problemas y soluciones, 133-140 (ISBN: 84-7840-586-0). Instituto Geológico y Minero de España. **2005**.
10. *Estabilización/solidificación de residuos con cal o cemento*. A. Coz, A. Andrés, C. Ruiz, J. Viguri, A. Irabien. Medio Ambiente RETEMA. **2002**.
11. *Procesos de estabilización/solidificación de lodos de fundición de carácter mixto (orgánico-inorgánico)*. Medio Ambiente RETEMA. **2002**.
12. *Los indicadores de calidad en Ingeniería Química*. I. Ortiz, J.A. Irabien, A. Urriaga, J. Viguri, A. Andrés, A. Ayerbe, A. Coz, I. Fernández, B. Galán, A. Garea, R. Ibáñez, O. Oliván, M.F. San Román. XIX Jornadas de Ingeniería Química, (ISBN: 84-699-5497-0). **2001**.

PATENTS

1. Procedimiento de inertización de lodos que contienen contaminantes orgánicos e inorgánicos. A. Andrés, A. Coz, A. Irabien, J. Viguri, C. Ruiz. P200101115. 2001.

Ph D THESIS SUPERVISION

1. **Cristina Rueda Ruiz.** Biorrefinería Forestal Integrada a partir del proceso al sulfito ácido. Simulación y vías de valorización "Integrated forest biorefinery from acid sulfite pulping process. Simulation and valorization opportunities". March, **2016**.
2. **Tamara Llano Astuy.** Mejoras en un proceso de pasteado al sulfito para el aprovechamiento de carbohidratos dentro del concepto de biorrefinería, "Developments in a sulphite pulping process for the valorisation of its carbohydrate resources within the biorefinery concept". February, **2016**. Extraordinary prize
3. **Begoña Ruiz Labrador.** Comportamiento Ambiental de Residuos Metálicos Estabilizados mediante un Sistema Integral de Ensayos de Lixiviación "Environmental Behavior of Stabilized Metallic Waste by an Integral Procedure of Leaching Tests", October, **2013**.
4. **María Cruz Payán Fraile.** Análisis y modelado de la lixiviación de metales de sedimentos contaminados en contacto con fugas de CO₂ procedentes de sistemas CAC "Analysis and modelling of the metal release from contaminated sediment subject to CO₂ leakages from Carbon Capture and Storage (CCS) sites", July, **2013**.

RESEARCH STAYS

1. Jefatura de Investigación en Ingeniería. Prof. Fernando Colmenares. **Universidad Cooperativa de Colombia**, Medellín, Bogotá y Villavicencio, Colombia, 1 month (April, 2018).
2. Department of Mechanical Engineering. Dr. Paul Hellier. **UCL University College London**, London, UK 1 month (April, 2016).
3. Department of Forest Products technology. Prof. H. Sixta. **Aalto University**, Espoo, Finland. 2 months (February – April, 2014).
4. Department of Civil and Environmental Engineering. Prof. C. Cheeseman. **Imperial College London**. UK. 4 months (May-August, 2011).
5. Department of Environmental Engineering. Prof. D. Mantzavinos, Dr. N. Xekoukoulotakis. **Technical University of Crete**. Greece. 11 months (February-September, 2005 and June-September, 2006).
6. Institute of Chemistry and Natural Resources. Prof. J. Villaseñor. **Talca University**. Talca. Chile. 4 months (July – November, 1998).

RESEARCH PROJECTS

Research projects as PI:

1. *Caracterización y propiedades técnicas del tratamiento por hidrólisis y procesado mecánico de sauco para la obtención de papel tipo japones y revestimientos* "Characterisation and technical properties of hydrolysis and mechanical processing of Elderberry in order to obtain Japanese paper and lining panels". Besarte Fibra Natural. **9 months** (April-December, 2015).
2. "New tailor-made biopolymers produced from lignocellulosic sugars waste for highly demanding fire-resistant applications" BRIGIT. European Commission. 7th Framework Program KBBE.2012.3.4-02. **4 years** (August, 2012 – July, 2016).
3. *Estudio de viabilidad de procesos alternativos de digestión de maderas duras para la obtención de pasta dissolving* "Study of feasibility of hardwood digestion alternative processes to obtain dissolving pulp". Green Source (SNIACE group). Industrial projects SODERCAN.
4. *Desarrollo de la iniciativa para la identificación, monitorización, biotecnología y conversión-valorización de cultivos energéticos (EUCAFUEL).* "Development of the initiative for the identification, monitoring, biotechnology and valorisation-conversion of energetic cultivation (EUCAFUEL)". Plan E del Gobierno de España. **2 years** (2010-2011).

Research projects as collaborator:

5. *Estudio de viabilidad del proceso de extracción y caracterización de polisacáridos sulfatados de macroalgas (POLIEXTRALGA).* Investalga AHTI, S.L. **8 months** (October, 2018-May 2019).
6. *Comportamiento bajo cargas permanentes y dinámicas de hormigones incorporando árido y cemento reciclados con bajo contenido en clínker (SODERCAN/FEDER).* SODERCAN, S.A. **1 year** (September, 2018-August-2019).
7. *Obtención, tratamiento y difusión de datos en materia de producción y gestión de residuos y adaptación del sistema de indicadores existente al nuevo plan de residuos de Cantabria.* Gobierno de Cantabria; Consejería de Universidades e Investigación, Medio Ambiente y Política Social. **3 years** (November, 2017-December, 2020).
8. *Análisis e hidrólisis proteica de espinas de pescado para alimentación humana (HIDPROTEC).* HARINAS DEL CANTABRICO S.L., SODERCAN, S.A. **7 months** (November, 2017-June, 2018).
9. *Residuos de incineración en la formulación de materiales activados alcalinamente para su uso en construcción y obra civil: requerimientos técnicos y medioambientales (SODERCAN/FEDER).* SODERCAN, S.A. **1 year** (October, 2017-October, 2018).
10. *Modelos de evaluación integrada de los efectos asociados con la acidificación de CO₂ sobre la especiación y biodisponibilidad de contaminantes en agua (SODERCAN/FEDER).* SODERCAN, S.A. **1 year** (October, 2017-October, 2018).

11. *Desarrollo experimental de productos cerámicos de arcilla cocida incorporando residuos de la industria de la fundición.* RECICLADOS DE CABEZÓN S.L. **1 year** (December, 2016-December, 2017).
12. *Valorization of fly ash in ceramic products and fly ash based products.* Solvay Química. **1 year** (June, 2015-May, 2016).
13. *Obtencion de recursos para la habitabilidad humana en entornos extremos extraterrestres mediante bioestimulacion optica "Resource obtaining for human habitability over extreme extra-terrestrial environment by means of optical bioestimulation".* Cantabria Explora Proposals. **2 years** (April, 2015-April, 2017).
14. *Comportamiento ambiental de escorias de fundición, acería y ferroaleaciones para su valorización en diferentes aplicaciones. "Environmental behavior of foundry and steel slag and ferroalloy for the valorisation in different applications".* Fundacion Servicios Empresariales CEOE-CEPYME. **6 months** (April – October, 2014).
15. *Comportamiento ambiental de la deposición de residuos inorgánicos estabilizados en vertederos sostenibles. "Environmental behaviour of stabilised inorganic waste on sustainable landfill".* Tradebe Valdilecha, S.L. **8 months** (October, 2013 – May, 2014).
16. *Investigación y desarrollo en el ámbito de la valorización de los recursos, la gestión de información medioambiental y herramientas de toma de decisiones (IDiGER). "R&D in resources valorisation, environmental information management and decision support tools".* Universidad de Cantabria. **2 years** (March, 2013 – March, 2015).
17. *Efectos de fugas de CO₂ almacenado en formaciones geológicas marinas: cinética de movilidad de metales en sedimentos marinos. "Effects of CO₂ leakages in geological marine areas: Kinetic and metal mobility in marine sediments".* Plan Nacional I+D+i. **3 years** (January, 2012 – December, 2014).
18. *Análisis de resultados y creación de modelos de electrodiálisis-ElectroModel "Analysis of results and creation of Electrolysis models- ElectroModel".* Solvay Química. **10 months** (July, 2012-April, 2013).
19. *Modelado matemático e interpretación de resultados de valorización de materiales residuales, arenas de fundición y escorias férricas, en productos cerámicos "Mathematical modelling and interpretation of results of residual materials valorisation, foundry sand and ferric slag, in ceramic products".* Movilidad José Castillejo JC2010-0086, **4 months** (May – August, 2011).
20. *Establecimiento del sistema de indicadores para el Flujo Sostenible de Recursos y Residuos en la Comunidad Autónoma de Cantabria "Establishment of an indicators system for the sustainable flow of resources and residues in Cantabria region".* Gobierno Regional de Cantabria. **2 years** (March, 2011 – March, 2013).
21. *Reutilización de arenas de fundición y escorias férricas en el sector cerámico de arcilla cocida: análisis y modelado de las propiedades tecnológicas y medioambientales de los productos finales. "Reutilisation of foundry sand and ferric slag in the ceramic sector of fired clay: analysis and modelling of the environmental and technological properties of final products".* Plan Nacional I+D+i. **3 years** (January, 2010 – December, 2012).
22. *Bases para el desarrollo de un proyecto en el ámbito de la sostenibilidad en el sector industrial mediante la aplicación de herramientas de gestión ambiental basadas en Mejoras Tecnologías Disponibles Europeas.* Programas de Cooperación Interuniversitaria e Investigación Científica. Agencia Española de Cooperación Internacional para el Desarrollo (AECID) -PCI Secretaría de Estado de Cooperación Internacional. Ministerio de Asuntos Exteriores y Cooperación. AECID/PCI-C/025830/09. **1 year** (2010).
23. *Análisis y modelado del comportamiento de lixiviación en condiciones dinámicas de la movilidad de metales de sedimentos marinos en contacto con fugas de CO₂ de procesos CS-SSGS. "Analysis and modelling of the leaching behaviour in dynamic conditions for the metal mobility of marine sediments in contact with CO₂ leakages of CS-SSGS processes".* Plan Nacional I+D+i. **3 years** (January, 2009 – December, 2011).
24. *Prueba industrial de utilización de Ferrosita (Escoria Waelz) en la obtención de productos cerámicos: Evaluación técnica y valorización ambiental "Industrial proof about the utilisation of Ferrosita (Waelz slag) to obtain ceramic products".* Befesa Zinc Aser, S.A. **1 year** (April, 2008 – April, 2009).
25. *Sistema de indicadores para el flujo sostenible de recursos y residuos -punto focal de residuos de Cantabria. "System of indicators about the sustainable flow of waste and resources – Focal point of Cantabria Waste"* Gobierno de Cantabria. **2 years and 9 months** (April, 2008 – December, 2010).
26. *Red de intercambio de conocimiento en el sector marítimo (INTERCOMAR). "Network about the exchange of the knowledge of the maritime sector"* Plan Nacional I+D+i. MEC. **1 year** (November, 2007 – October, 2008).
27. *Desarrollo de un proceso de obtención de productos cerámicos mediante la utilización de arenas de fundición residuales y material dragado: evaluación técnica y valorización ambiental (SANDBRICK). "Development of a process of obtainig ceramic products by means of the utilization of foundry sand and dredged material: technical evaluation and environmental valorisation (SANDBRICK)."* Plan Nacional I+D+i. **3 years** (November, 2006- October, 2009).
28. *Desarrollo de un proceso de obtención de productos cerámicos mediante la utilización de ferrosita (escoria Waelz). "Development of a process of obtainig ceramic products by means of the utilization of ferrosite (Waelz slag)"* BEFESA, S.A. **1 year** (December 2006 - December 2007).
29. *Red de conocimiento científico-técnico ambiental para el desarrollo sostenible y la protección de la contaminación y sus efectos en el medio marino costero (PROMAR). "Network about the environmental scientific and technical knowledge for the sustainable development and the protecton of the pollution and its effects on the coastal marine medium".* Plan Nacional I+D+i. MEC. CTM2006-28144-E/TECNO. **1 year** (2007-2008).
30. *Análisis de la producción científica española relacionada con el conocimiento del estado medioambiental del medio marino "análisis of the spanish scientific production related to the knowledge of environmental marine area".* MEC. MARCOCIENCIA. Ref. EA2006-0067. **1 year** (December, 2005 – December, 2006).
31. *Disinfection of wastewater using titanium dioxide asisted photocatalysis.* Greek Institution. **4 months** (June – September, 2006).

32. *Aplicación de redes neuronales para el cálculo de criterios de calidad de sedimento y de tejido biológico* "Application of neuronal nets for criteria estimations of sediment quality and biological tissue". Plan Nacional I+D+I (2004-2007) MCYT. CTM2005-07282-C03-03/TECNO. **3 years** (November, 2005 – November, 2008).
33. *Viabilidad de aditivos alternativos y valorización ambiental de nuevos productos cerámicos* "Feasibility of alternative additives and environmental valorisation of new ceramic products". Plan Nacional I+D+I, MYCT, PETRI 95-0797.OP. **2 years** (May, 2004 – May, 2006).
34. Valoración ambiental de los polvos de acería solidificados/estabilizados (con y sin aditivos alternativos) en base a un sistema integral de evaluación. "Environmental valorisation of stabilised/solidified electric arc furnace dust (with or without alternative additives) based on an integral system of evaluation". SODERCAN-INESNOVA 2005. **1 year** (2006).
35. *Comportamiento de lixiviación a tiempos largos de ferrosita (escoria Waelz)*. "long-term leaching behaviour of ferrosite (Waelz slag)". BEFESA, S.A. **3 months** (April-June, 2006).
36. *Caracterización físico-química y toxicológica de sedimentos marinos y su modelado matemático* "Physico-chemical and toxicological characterisation of marine sediments and their mathematical modelling". Fundación Marcelino Botín. **2 years** (October, 2004 – September, 2006).
37. *Punto focal de residuos del observatorio de sostenibilidad de Cantabria*. "Focal point Cantabria Waste – Cantabria Observatory of sustainability". **2 years and a half** (July, 2005 – December, 2007).
38. *Red Nacional de intercambio de Conocimiento sobre Sedimentos (INTERSED)*. "National network about the exchange of the knowledge of sediments". Plan Nacional I+D+I. MEC. CTM2004-21977-E. **1 year** (Sep, 2005 – Oct, 2006).
39. *Microcontaminantes orgánicos en sedimentos marinos de Cantabria: evaluación ambiental* "Organic Micro-pollutants on Marine Sediments of Cantabria: Environmental Evaluation". Cantabria University. Plan Nacional I+D+I (2000-2003) MCYT. **3 years** (November, 2002 - November, 2005).
40. *Red Española sobre Sedimentos* "Spanish network about sediments". Plan Nacional I+D+I. MCYT. REN 2002-11937-E. **1 year** (April, 2004 – April, 2005).
41. *Desarrollo de Indicadores de Calidad basados en la caracterización de sedimentos y dragados: Aplicación al estuario de Santander* "Development of Quality Parameters based on the Characterisation of sediments and dredged sediments: Application to the Santander estuarine". Cantabria University. País Vasco University. Marcelino Botín Foundation, IV Convocatoria de Proyectos de Investigación Aplicada (Coordinated Project). Medio Ambiente y Desarrollo Sostenido en Cantabria. **2 years** (February, 2002 - February, 2004).
42. *Desarrollo de un nuevo proceso para la mejora de calidad de productos cerámicos* "Development of a new process for the improvement of quality of ceramic products". Cantabria University. Cerámica de Cabezón, S.A. **9 months** (October, 2002 - June, 2003).
43. *Desarrollo de formulaciones residuo/aglomerante sol-proceso para solidificación/estabilización de lodos de fundición* "Development of waste/binder formulations for the solidification/stabilisation of foundry sludges". Department of Chemistry. Fundimotor–Mecobusa S.A. Fund FEDER of the European Union. **2 years** (February, 1999 - February, 2001).
44. *Degradación fotocatalizada de compuestos organoclorados por semiconductores y tratamiento de efluentes de la industria celulosa* "Photocatalytic degradation of organochlorinated compounds by semiconductors and wastewater treatment of the cellulose industry". Talca University. Fond FONDECYT. **4 months** (July – November, 1998).
45. *Utilización de bacterias para destruir residuos industriales* "Bacteria utilisation for the destruction of industrial waste". Department of Chemistry. Fundimotor–Mecobusa S.A. **1 year** (August, 97–July, 98).

INTERNATIONAL COLLABORATIONS

- Prof. Fernando Colmenares, Universidad Cooperativa de Colombia, Jefatura Nacional Investigación en Ingeniería, Medellín, Colombia.
- Dr. Paul Hellier, University College London UCL, Department of Mechanical Engineering, London, UK.
- Assoc. Prof. Edi Maican, Politehnica University of Bucharest, Faculty of Biotechnical Systems Engineering, Romania.
- Prof. H. Sixta, Department of Forest Products Technology, Aalto University, Finland.
- Prof. J. Paris and Dr. M. Miranova, Department of Chemical Engineering, University of Montreal, Canada.
- Prof. A. Koutinas, Department of Food Science and Technology, Agricultural University of Athens, Greece.
- Prof. C. Cheeseman, Department of Civil and Environmental Eng., Imperial College London, UK.
- Prof. C. Vandecasteele, Department of Chemical Eng., Université Catholique de Louvain, Belgium.
- Prof. I. Grossmann, Chemical Engineering Department, Carnegie Mellon University, Pittsburgh, USA
- Prof. M. Segadaes. Center for Research in Ceramics & Composite Materials. Universidade de Aveiro, Portugal.
- Prof. J. Villaseñor, Instituto de Química de Recursos Naturales, University of Talca, Chile.
- Prof. D. Mantzavinou, Chemical Engineering Department, University of Patras, Greece.
- Prof. N. Xekoukoulotakis, Environmental Eng. Department, Technical University of Crete, Greece.

PARTICIPATION IN SCIENTIFIC MEETINGS

Congresses participation:

Expoquimia and 8º Congreso Mediterráneo de Ingeniería Química. 1 Poster. Spain. 1999; INGENA 2001. 1 Poster. Spain. 2001; CIMA 2001. 2 Oral Communications and 2 Posters. Chile. 2001; Reunión científico-técnica sobre acidificación de suelos y aguas. 1 Oral Comm. Spain. 2002; VARIREI 2003. 2 Oral Communications. Italy. 2003; 6th SQA. 1 Poster. Belgium. 2004; 10th Eu-Che-MS-DCE. 1 Poster. Italy. 2005; 13th MESAEP. 1 Oral Communication and 2 Posters. Greece. 2005; VIII PRE. 1 Poster. Greece. 2006; II Jornadas INTERSED. 2

Posters. Spain. 2006; Water Resources Management: New Approaches and Technologies. 1 Poster. Greece. 2007; 2nd WasteEng. 1 Oral Communication Oral. Greece. 2008; SECOTOX CEMEPE. 2 Oral Communications. Greece. 2009; 3th WasteEng. 1 Oral Communication and 1 Poster. China. 2010; VENICE 2010 3rd International Symposium on Energy from Biomass and Waste. 2010; 8th ECCE, ECAB 2011. 1 Oral Communication and 1 Poster. Germany, 2011; WASCON 2012, 1 Poster. Sweden, 2012; 4th WasteEng, 1 Oral Communication and 2 Posters. Portugal, 2012; Forest Biorefinery Symposium. Montreal, Canada, 2013; SARDINIA 2013, 1 oral Communication, Italy, 2013; WORKSHOP on Cellulose dissolution and regeneration, Cost Action FP1205, 1 Poster. Sweden, 2013; 4th International Conference on Industrial and Hazardous Waste Management, 2 Oral Communications. Chania, Greece, 2014; 1st Workshop FP1306 COST Action, Serbia, 2015; WASCON 2015-Resource Efficiency in Construction. Co-chair. 2 Oral presentations. Spain, 2015; ISB-INMA-TEH International Symposium. 1 Oral presentation, 1 Plenary session. Romania, 2015; 2nd Workshop FP1306 COST Action, Dubrovnik, Croatia, 2016; Bioenergy-2016 Conference, Rome, Italy, 2016; 3rd Workshop FP1306 COST Action, Torremolinos, Spain, 2017; I Congreso Nacional sobre Bioeconomía Forestal, Santander, Spain, 2017; 4th Workshop FP1306 COST Action, Tesalónica, Greece, 2018; BERSTIC, WASCON 2018, Tampere, Finland, 2018; Medellín, Colombia, 2018; 4th CIAB, Jaén, Spain, 2018. BRESICT, Bucaramanga, Colombia, 2020.

Participation as Plenary session in Congresses:

- ISB-INMA-TEH International Symposium, Romania, **2015**.

Conference Invitation:

- Biorefineries and renewable energies supported in ITC: business opportunities based on technologies and innovation. Medellín, Colombia, **2018**.

Participation as Chairman in Congresses:

- 13th MESAEP. Session 7: Environmental management, planning and policy II. Greece, **2005**.
- 4th WasteEng, Session A5: Feedstocks for biofuels and bio-based products (III). Portugal, **2012**
- 4th International Conference on Industrial and Hazardous Waste Management, Session C1: Hazardous Waste Sludge - Solidification. Greece, **2014**.
- ISB-INMA-TEH International Symposium, Section 2: Ecology and Environment. Romania, **2015**.
- WASCON 2018. Session 1d: Circularity in Cement Products I. Tampere, Finland, **2018**.

MANAGEMENT PARTICIPATION

- International Relations Manager. School of Nautical Studies. University of Cantabria. February, 2014-March, 2020.
- Vice-Dean of International Relations. School of Nautical Studies. University of Cantabria. March, 2011-December, 2013 and from March, 2020-Present.
- Academic responsible for the Chemical Engineering Degree. University of Cantabria. January-May, 2006.
- Member and Secretary of the Union Representatives' Committee. University of Cantabria. February, 2003-2020.
- Member of the Board of ISCOWA. "The International Society for the Environmental and Technical Implications of Construction with Alternative Materials". May, 2012-Present.
- Member of PAPTAC and ASPAPEL(CEPI) Associations related to Pulp and Paper Industry.
- Member of the Management Committee of COST Actions FP1205 "Innovative applications of regenerated wood cellulose fibres" and FP1407 "Understanding wood modification through an integrated scientific and environmental impact approach (ModWoodLife)". Member substitute in FP1306 "Valorisation of lignocellulosic biomass side streams for sustainable production of chemicals, materials & fuels using low environmental impact technologies" and CA17128 "Establishment of a Pan-European Network on the Sustainable Valorisation of Lignin (LignoCOST)".
- Summer Courses Management. Industrial Biotechnology. UC/UIMP. Santander. 2011. Biorefinery and Industrial Applications. UC. Santander. 2014. Biorefinery: utilization of biomass against oil. UC: Santander. 2015.

Participation as Committee Member in Conferences/Workshops:

- Secretary of the Committee: XIX Jornadas de Ingeniería Química. "XIX Congress of Chemical Engineering". Santander, Spain. **2001**.
- Participation as local Committee: 1^{as} Jornadas INTERSED. Santander, Spain. **2004**. 2^{as} Jornadas INTERSED. Santander, Spain. **2006**.
- Direction of 1st Workshop - BRIGIT European Project. Santander, Spain. **2014**.
- Co-chair of the WASCON 2015 International Conference on Resource Efficiency in Construction, Santander, Spain. **2015**.
- Participation as Scientific Committee: 1st Workshop FP1306 COST Action, Serbia. **2015**. Wastes Conference, Portugal. **2015**. ISB-INMA-TEH Conference, Romania, **2015**. 2nd Workshop FP1306 COST Action, Dubrovnik, Croatia, **2016**. Wastes Conference, Portugal. **2017**. WASCON 2018, Tampere, Finland, **2018**. 4th CIAB Conference, Jaen, Spain, **2018**. ISB-INMA-TEH Conference, Romania, **2018**. BERSTIC Conference, Colombia, **2018**. Wastes Conference, Portugal. **2019**.

SOME ADDITIONAL AND INTERESTING INFORMATION

- Reviewer of International Journals. Baltic Forestry; Bioresource Technology; Biotechnology for Biofuels; Ceramics International; Chemosphere; CIT Centro de Información Tecnológica –Chile; Desalination and Water Treatment; Ecotoxicology and Environmental Safety; Ecotoxicology; Environmental Engineering and Management Journal; Environmental Science & Technology; International Journal of Environmental Analytical Chemistry; Journal of Chemical Engineering and Materials Science; Journal of Chemical Technology and Biotechnology; Journal of Cleaner Production; Journal of Environmental Chemical Engineering; Journal of Hazardous Materials; Journal of the Taiwan Institute of Chemical Engineers; Journal of Solid Waste Technology and Management; Journal of Wood Chemistry and Technology; Journal of Zhejiang University Science; Recent Patents on Material Science; Separation Science & Technology; Resource, Conservation and Recycling; Waste and Biomass Valorization; Waste Management & Research; Waste Management; Water Research.
- Supervisor of 38 final thesis of decree (Bachelor and Master).
- Participation as a member of the board in final thesis of decree, secretary of the board in two Ph.D. Theses, Santander, Spain, and president off the board in one Ph.D. Thesis, Jaen, Spain.