

## Publications

01. "Formic acid pulping of rice straw", *Industrial Crops and products*, 2001, vol. 14, 65.
  
02. "A new procedure for the destructuring of vegetable matter at atmospheric pressure by a catalyst/solvent system of formic acid/acetic acid applied to the pulping of triticale straw", *Industrial Crops and products*, 2001, vol. 14, 139.
  
03. "A new non-wood pulping process for high silicon content raw materials. Application to rice straw", *Appita Journal*, 2003, vol. 56 (2), 102.
  
04. "Structural elucidation of the wheat straw lignin polymer by atmospheric pressure chemical ionization tandem mass spectrometry and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry", *Journal of Mass Spectrometry*, 2003, vol. 38, 900.
  
05. "Production of paper grade pulp from bagasse by a novel pulping process", *Appita Journal*, 2004, vol. 57 (1), 26.
  
06. "Location and composition of silicon derivatives in rice straw pulp obtained by organic acid pulping", *Appita Journal*, 2005, vol.58 (3), 214.
  
07. "Bleaching of solvent delignified wheat straw pulp", *Appita Journal*, 2005, vol. 58 (2), 135.
  
08. "Delignification of wheat straw using a mixture of carboxylic acids and peroxyacids", *Industrial Crops and products*, 2005, vol. 21, 9.

09. "Formic acid/acetic acid pulping of banana stem", *Appita Journal*, 2005, vol. 58 (5), 393.
10. "Elucidation of the complex molecular structure of wheat straw lignin polymères by atmospheric pressure photoionization quadrupole time-of-flight tandem mass spectrometry", *Rapid Communication in Mass Spectrometry*, 2007, vol. 21, 2867.
11. *Chemical Engineering & Technologies*, 2008, vol. 31 (5), 792.
12. "Functionality of wheat straw lignin extracted in organic acid media", *Journal of Applied Polymer Science*, 2011, vol. 121, 491–501.
13. "Low Formaldehyde Emitting Biobased Wood Adhesives Manufactured from Mixtures of Tannin and Glyoxylated Lignin", *Journal of Adhesion Science and Technology* 2012, vol 26, 1667–1684.
14. "Biolignin based epoxy resins", *Journal of Applied Polymer Science*, 2012, DOI : 10.1002/APP.37921.
15. "Biorefining of wheat straw using an acetic and formic acid based organosolv fractionation process" *Biores. Techn.* : 156, 2014, 275–282.
16. "Esterification of organosolv lignin under supercritical conditions" *Ind. Crops and products*, v 58, 287-297, 2014.
17. "A critique on the structural analysis of lignins and application of novel tandem mass spectrometric strategies to determine lignin sequencing", *J. Mass Spectrom.*, 50, 5–48, 2015.
18. "Organosolv Wheat Straw Lignin as Phenol Substitute for Green Resins", *Bioresources* 11 (3), 2016.

19. "Organic Acid Lignin\_based Polyurethane Films Synthesis optimization", *Bioresources* 11 (3), 2016, 6320-6330.
  
20. "A Study on the Endogenous Symbiosis of First and Second Generation Biorefineries: Towards a systematic methodology", *Proceedings of the 26th European Symposium on Computer Aided Process Engineering – ESCAPE 26*, June 12th-15th, 2016, Portorož, Slovenia – Elsevier.
  
21. "Integrated Waste Management in Multiproduct Biorefineries: Systems Optimization and Analysis of a Real-Life Industrial Plant", DOI: 10.1021/acs.iecr.5b03431 *Ind. Eng. Chem. Res.*, 2016.
  
22. "Extraction process of silica from lignocellulosic plant material", 6th International Conference on Engineering for Waste and Biomass Valorization – May 23–26, 2016 – Albi, France.
  
23. "Biolignin based polymers", 6th International Conference on Engineering for Waste and Biomass Valorization -May 23–26, 2016 – Albi, France.
  
24. "Biorefinery process: an advanced technology to produce 2G biofuel and Biolignin", 6th International Conference on Engineering for Waste and Biomass Valorization -May 23–26, 2016 – Albi, France.
  
25. 6th International Conference on Engineering for Waste and Biomass Valorization, May 23–26, 2016 – Albi, France.
  
26. The Case of Xylitol and its Integration with an Organosolv Process." *Waste and Biomass Valorization*, 1-18. January 2017.
  
27. 11th Panhellenic Chemical Engineering Scientific Conference (11PESXM), Thessaloniki 24-27 May 2017, Greece.

28. "Evaluation of the particle size of organosolv Lignin in the synthesis of resol resins for plywood and their performance on fire spreading", Tappi Journal 16(7):409-416, (2017)

29. « Kinetic study of 5-hydroxymethylfurfural synthesis from fructose in high pressure CO<sub>2</sub>-water two-phase system », Industrial & Engineering Chemistry Research, American Chemical Society, 2019, 58 (1), pp.92-100

30. Kinetic of Xylan hydrolysis using an acetic and formic acid-based organosolv pre-treatment, Bioresources Technology reports, 2021, Vol. 14