# Florbela Carvalheiro

List of Publications by Year
in descending order

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|---|---|---|---|
| 63 papers | 3,728 citations | 201674 27 h-index | 138484 58 g-index |
| 66 all docs | 66 docs citations | 66 times ranked | 3883 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Hemicelluloses for fuel ethanol: A review. Bioresource Technology, 2010, 101, 4775-4800. | 9.6 | 1,249 |
| 2 | Production of oligosaccharides by autohydrolysis of brewery's spent grain. Bioresource Technology, 2004, 91, 93-100. | 9.6 | 238 |
| 3 | Hydrothermally treated xylan rich by-products yield different classes of xylo-oligosaccharides. Carbohydrate Polymers, 2002, 50, 47-56. | 10.2 | 205 |
| 4 | Wheat Straw Autohydrolysis: Process Optimization and Products Characterization. Applied Biochemistry and Biotechnology, 2009, 153, 84-93. | 2.9 | 193 |
| 5 | In vitro fermentation of xylo-oligosaccharides from corn cobs autohydrolysis by Bifidobacterium and Lactobacillus strains. LWT - Food Science and Technology, 2007, 40, 963-972. | 5.2 | 166 |
| 6 | Evaluation of the detoxification of breweryâ€™s spent grain hydrolysate for xylitol production by Debaryomyces hansenii CCMI 941. Process Biochemistry, 2005, 40, 1215-1223. | 3.7 | 141 |
| 7 | Hydrolysis of Oligosaccharides Over Solid Acid Catalysts: A Review. ChemSusChem, 2014, 7, 1010-1019. | 6.8 | 100 |
| 8 | Characterisation and hydrothermal processing of corn straw towards the selective fractionation of hemicelluloses. Industrial Crops and Products, 2013, 50, 145-153. | 5.2 | 77 |
| 9 | Production, purification and characterisation of oligosaccharides from olive tree pruning autohydrolysis. Industrial Crops and Products, 2012, 40, 225-231. | 5.2 | 70 |
| 10 | Hydrothermal production and gel filtration purification of xylo-oligosaccharides from rice straw. Industrial Crops and Products, 2014, 62, 460-465. | 5.2 | 68 |
| 11 | Mannitol production by lactic acid bacteria grown in supplemented carob syrup. Journal of Industrial Microbiology and Biotechnology, 2011, 38, 221-227. | 3.0 | 63 |
| 12 | Production and purification of xylooligosaccharides from oil palm empty fruit bunch fibre by a non-isothermal process. Bioresource Technology, 2014, 152, 526-529. | 9.6 | 63 |
| 13 | Kinetic Modeling of Breweryapos;s Spent Grain Autohydrolysis. Biotechnology Progress, 2008, 21, 233-243. | 2.6 | 62 |
| 14 | Assessment of the bifidogenic effect of substituted xylo-oligosaccharides obtained from corn straw. Carbohydrate Polymers, 2016, 136, 466-473. | 10.2 | 59 |
| 15 | Comparison of Two Posthydrolysis Processes of Brewery's Spent Grain Autohydrolysis Liquor to Produce a Pentose-Containing Culture Medium. Applied Biochemistry and Biotechnology, 2004, 115, 1041-1058. | 2.9 | 55 |
| 16 | Biorefining strategy for maximal monosaccharide recovery from three different feedstocks: Eucalyptus residues, wheat straw and olive tree pruning. Bioresource Technology, 2015, 183, 203-212. | 9.6 | 54 |
| 17 | Effects of Aliphatic Acids, Furfural, and Phenolic Compounds on <I>Debaryomyces hansenii </I>CCMI 941. Applied Biochemistry and Biotechnology, 2005, 121, 0413-0426. | 2.9 | 52 |
| 18 | Fractionation of Hemicelluloses and Lignin from Rice Straw by Combining Autohydrolysis and Optimised Mild Organosolv Delignification. BioResources, 2015, 10, . | 1.0 | 42 |

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|---|---|---|---|
| 19 | Hydrothermal pretreatment of several lignocellulosic mixtures containing wheat straw and two hardwood residues available in Southern Europe. Bioresource Technology, 2015, 183, 213-220. | 9.6 | 39 |
| 20 | Dilute Acid Hydrolysis of Wheat Straw Oligosaccharides. Applied Biochemistry and Biotechnology, 2009, 153, 116-126. | 2.9 | 38 |
| 21 | Xylitol production by Debaryomyces hansenii in brewery spent grain dilute-acid hydrolysate: effect of supplementation. Biotechnology Letters, 2007, 29, 1887-1891. | 2.2 | 36 |
| 22 | Optimization of Brewery's Spent Grain Dilute-Acid Hydrolysis for the Production of Pentose-Rich Culture Media. Applied Biochemistry and Biotechnology, 2004, 115, 1059-1072. | 2.9 | 33 |
| 23 | Detoxification of hemicellulosic hydrolysates from extracted olive pomace by diananofiltration. Process Biochemistry, 2014, 49, 173-180. | 3.7 | 32 |
| 24 | Bifidobacterial growth stimulation by oligosaccharides generated from olive tree pruning biomass. Carbohydrate Polymers, 2017, 169, 149-156. | 10.2 | 32 |
| 25 | Technoâ€economic and lifeâ€cycle assessments of smallâ€scale biorefineries for isobutene and xyloâ€oligosaccharides production: a comparative study in Portugal and Chile. Biofuels, Bioproducts and Biorefining, 2019, 13, 1321-1332. | 3.7 | 31 |
| 26 | Response to oxidative stress induced by cadmium and copper in tobacco plants (Nicotiana tabacum) engineered with the trehalose-6-phosphate synthase gene (AtTPS1). Acta Physiologiae Plantarum, 2014, 36, 755-765. | 2.1 | 29 |
| 27 | Selective recovery of phenolic compounds and carbohydrates from carob kibbles using water-based extraction. Industrial Crops and Products, 2015, 70, 443-450. | 5.2 | 29 |
| 28 | Membrane separation and characterisation of lignin and its derived products obtained by a mild ethanol organosolv treatment of rice straw. Process Biochemistry, 2018, 65, 136-145. | 3.7 | 29 |
| 29 | Supplementation requirements of breweryâ€™s spent grain hydrolysate for biomass and xylitol production by Debaryomyces hansenii CCMI 941. Journal of Industrial Microbiology and Biotechnology, 2006, 33, 646-654. | 3.0 | 27 |
| 30 | Nanofiltration and reverse osmosis as a platform for production of natural botanic extracts: The case study of carob by-products. Separation and Purification Technology, 2015, 149, 389-397. | 7.9 | 23 |
| 31 | Autohydrolysis of Annona cherimola Mill. seeds: Optimization, modeling and products characterization. Biochemical Engineering Journal, 2015, 104, 2-9. | 3.6 | 22 |
| 32 | Bioethanol production from extracted olive pomace: dilute acid hydrolysis. Bioethanol, 2016, 2, . | 1.2 | 22 |
| 33 | Interactive effects of sodium chloride and heat shock on trehalose accumulation and glycerol production bySaccharomyces cerevisiae. Food Microbiology, 1999, 16, 543-550. | 4.2 | 21 |
| 34 | Yeast Biomass Production in Breweryâ€™s Spent Grains Hemicellulosic Hydrolyzate. Applied Biochemistry and Biotechnology, 2008, 148, 119-129. | 2.9 | 21 |
| 35 | Distillery Residues from Cistus ladanifer (Rockrose) as Feedstock for the Production of Added-Value Phenolic Compounds and Hemicellulosic Oligosaccharides. Bioenergy Research, 2019, 12, 347-358. | 3.9 | 19 |
| 36 | Biological conversion of tomato pomace by pure and mixed fungal cultures. Process Biochemistry, 1994, 29, 601-605. | 3.7 | 18 |

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|---|---|---|---|
| 37 | Removal of inhibitory compounds from olive stone auto-hydrolysis liquors by nanofiltration. Desalination and Water Treatment, 2011, 27, 90-96. | 1.0 | 18 |
| 38 | Assessment of the effect of autohydrolysis treatment in bananaâ€™s pseudostem pulp. Waste Management, 2021, 119, 306-314. | 7.4 | 18 |
| 39 | Pulp properties resulting from different pretreatments of wheat straw and their influence on enzymatic hydrolysis rate. Bioresource Technology, 2014, 169, 206-212. | 9.6 | 17 |
| 40 | Delignification of Cistus ladanifer Biomass by Organosolv and Alkali Processes. Energies, 2021, 14, 1127. | 3.1 | 17 |
| 41 | Recovery of Bioactive Compounds from Industrial Exhausted Olive Pomace through Ultrasound-Assisted Extraction. Biology, 2021, 10, 514. | 2.8 | 17 |
| 42 | Bioproducts from forest biomass II. Bioactive compounds from the steam-distillation by-products of Cupressus lusitanica Mill. and Cistus ladanifer L. wastes. Industrial Crops and Products, 2020, 158, 112991. | 5.2 | 16 |
| 43 | The Combined Effects of Acetic Acid, Formic Acid, and Hydroquinone on Debaryomyces hansenii Physiology. Applied Biochemistry and Biotechnology, 2006, 130, 461-475. | 2.9 | 15 |
| 44 | Biotechnological valorization potential indicator for lignocellulosic materials. Biotechnology Journal, 2007, 2, 1556-1563. | 3.5 | 15 |
| 45 | Acid-modified clays as green catalysts for the hydrolysis of hemicellulosic oligosaccharides. Catalysis Science and Technology, 2015, 5, 4072-4080. | 4.1 | 14 |
| 46 | Low Indirect Land Use Change (ILUC) Energy Crops to Bioenergy and Biofuelsâ€”A Review. Energies, 2022, 15, 4348. | 3.1 | 14 |
| 47 | Deconstruction of the Hemicellulose Fraction from Lignocellulosic Materials into Simple Sugars. , 2012, , 3-37. | | 13 |
| 48 | Hydrothermal Treatments of Cistus ladanifer Industrial Residues Obtained from Essential Oil Distilleries. Waste and Biomass Valorization, 2019, 10, 1303-1310. | 3.4 | 12 |
| 49 | Cistus ladanifer as a source of chemicals: structural and chemical characterization. Biomass Conversion and Biorefinery, 2020, 10, 325-337. | 4.6 | 12 |
| 50 | Selective single-stage xylan-to-xylose hydrolysis and its effect on enzymatic digestibility of energy crops giant reed and cardoon for bioethanol production. Industrial Crops and Products, 2017, 95, 104-112. | 5.2 | 11 |
| 51 | D-Lactic acid production from Cistus ladanifer residues: Co-fermentation of pentoses and hexoses by Escherichia coli JU15. Industrial Crops and Products, 2022, 177, 114519. | 5.2 | 11 |
| 52 | Combined Extraction and Ethanol Organosolv Fractionation of Exhausted Olive Pomace for Bioactive Compounds. Advanced Sustainable Systems, 0, , 2100361. | 5.3 | 8 |
| 53 | Combination of Autohydrolysis and Catalytic Hydrolysis of Biomass for the Production of Hemicellulose Oligosaccharides and Sugars. Reactions, 2022, 3, 30-46. | 2.1 | 8 |
| 54 | An overview of lignin pathways of valorization: from isolation to refining and conversion into value-added products. Biomass Conversion and Biorefinery, 2024, 14, 3183-3207. | 4.6 | 8 |

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| 55 | Oligosaccharides production by enzymatic hydrolysis of banana pseudostem pulp. Biomass Conversion and Biorefinery, 2023, 13, 10677-10688. | 4.6 | 5 |
| 56 | Separation of olive tree pruning oligomers from liquid hot water hydrolyzates using preparative gel filtration chromatography. New Biotechnology, 2009, 25, S249. | 4.4 | 4 |
| 57 | The use of flow cytometry to assess Rhodosporidium toruloides NCYC 921 performance for lipid production using Miscanthus sp. hydrolysates. Biotechnology Reports (Amsterdam, Netherlands), 2021, 30, e00639. | 4.4 | 4 |
| 58 | D-lactic acid production from hydrothermally pretreated, alkali delignified and enzymatically saccharified rockrose with the metabolic engineered Escherichia coli strain JU15. Biomass Conversion and Biorefinery, 0, , 1. | 4.6 | 4 |
| 59 | Development of an innovative macroalgae biorefinery: Oligosaccharides as pivotal compounds. Fuel, 2022, 320, 123780. | 6.4 | 4 |
| 60 | Exhausted Olive Pomace Phenolic-Rich Extracts Obtention: A First Step for a Biorefinery Scheme Proposal. Proceedings (mdpi), 2021, 70, 10. | 0.2 | 2 |
| 61 | The Combined Effects of Acetic Acid, Formic Acid, and Hydroquinone on Debaryomyces hansenii Physiology. , 2006, , 461-475. | | 1 |
| 62 | Yeast Biomass Production in Breweryâ€™s Spent Grains Hemicellulosic Hydrolyzate. , 2007, , 637-647. | | 1 |
| 63 | Effective Production of Bioactive Phenolic Compounds from Olive Stones. , 2021, 6, . | | 0 |