

Olive Mill Wastewater Anaerobically Digested Phenolic

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Olive Mill Wastewater Anaerobically Digested The recovery of phenolic compounds, present in the olive fruits and its by-products, has been intensively studied by the antioxidant properties. Olive mill wastewater (OMW) is a phenolic-rich industrial effluent that can be advantageously valorized by the anaerobic digestion to the methane and agricultural fertilizer productions. Olive Mill Wastewater Anaerobically Digested: Phenolic ... Olive mill wastewater (OMW) is a phenolic-rich industrial effluent that can be advantageously valorized by the anaerobic digestion to the methane and agricultural fertilizer productions. Olive Mill Wastewater Anaerobically Digested: Phenolic ... Olive mill wastewater (OMW) was digested in its original composition (100% v/v) in an anaerobic hybrid. High concentrations (54–55kg COD m⁻³), acid pH... Anaerobic digestion challenge of raw olive mill wastewater ... Olive mill wastewater (OMW) was digested in its original composition (100% v/v) in an anaerobic hybrid. High concentrations (54–55 kg COD m⁻³), acid pH (5.0) and lack of alkalinity and nitrogen are some OMW adverse characteristics. Loads of 8 kg COD m⁻³ d⁻¹ provided 3.7–3.8 m³ biogas m⁻³ d⁻¹ (63–64% CH₄) and 81–82% COD removal. An effluent with basic pH (8.1) and high alkalinity was obtained. Anaerobic digestion challenge of raw olive mill wastewater ... BACKGROUND: The combined treatment of olive mill wastewater (OMWW) by applying the anaerobic digestion process and further treatment in a system consisting of filters and membranes is presented. (PDF) Anaerobic digestion of

olive mill wastewater Olive mill wastewater (OMW) is a phenolic-rich industrial effluent that can be advantageously valorized by the anaerobic digestion to the methane and agricultural fertilizer productions. The objective of this work was to evaluate the antiradical activity of OMW after anaerobic digestion in order to maximize the valorization of this type of effluents. Olive mill wastewater anaerobically digested - CORE A novel approach was developed for the energetic valorisation and treatment of olive mill wastewater (OMW), combining anaerobic digestion and electrochemical oxidation. Electrochemical mineralization of anaerobically digested ... Electrooxidation is a feasible final treatment for Olive Mill Wastewater disposal. The mineralization of OMW anaerobically digested was obtained over RuO₂ DSA. IrO₂ based anode promoted a selective oxidation of phenols and colour removal. The electrooxidation was effectively performed in the presence of the solids. The electrochemical treatment was performed without using a supporting electrolyte. Electrochemical mineralization of anaerobically digested ... Olive mill wastewater (OMW) is the aqueous effluent of olive oil producing processes. Given its high COD and content of phenols, it has to be decontaminated before being discharged. Anaerobic digestion is one of the most promising treatment process for such an effluent, as it combines high decontamination efficiency with methane production. Performances and microbial features of an aerobic packed ... As an example, olive mill wastewater (OMW) is known for its environmental impact and treatment/valorization difficulties [23-25]. Anaerobic digestion is a promising technology for the

treatment of the organic effluents and for the simultaneous recovery of its energetic potential through methane production [26 , 27]. Energetic and biochemical valorization of cork boiling ... Olive mill wastewater (OMW) is characterized as a high-strength effluent due to the high organic load, low biodegradability, and presence of phytotoxic compounds. Most of the OMW treatment methods proposed, including adsorption, focus mainly on the reduction of chemical oxygen demand and recovery of polyphenols. Calcium-modified clinoptilolite as a recovery medium of ... Algal biomass cultivated in effluent (domestic or from the brewing industry) in combination with olive mill wastewater was anaerobically digested, without any pre-treatment or correction of the... Alberto REIS | Deputy Head | PhD | Laboratório Nacional de ... Algal biomass cultivated in effluent (domestic or from the brewing industry) in combination with olive mill wastewater was anaerobically digested, without any pre-treatment or correction of the substrate, allowing stability of the process and improvement of the digestion unit performance. Complementarity of Substrates in Anaerobic Digestion of ... In comparison to this study, higher methane content (67%) was achieved in Maragkaki et al. study, in which sewage sludge was co-digested with mixed cheese whey, food waste and olive mill wastewater. Also, Habiba et al. [42] assessed anaerobic co-digestion of waste activated sludge with fruit and vegetable waste, in which methane content ... Enhancing methane production using anaerobic co-digestion ... A kinetic study on the anaerobic digestion of olive mill wastewater (OMW)

was carried out in a semicontinuous, well-stirred fermenter with microorganisms immobilized on clayey supports. Substrate ... Inhibition kinetics of overall substrate and phenolics ... Olive mill wastewater (OMW) is a phenolic-rich industrial effluent that can be advantageously valorized by the anaerobic digestion to the methane and agricultural fertilizer productions. Biodegradation of Polyphenolic Compounds from Olive Mill ... A laboratory experiment was performed during a 120-day incubation period in order to evaluate changes in the properties of soil amended with the same waste water from olive-oil processing, either untreated (UVW) or anaerobically digested (ADVW). Decomposition in soil of anaerobically digested olive mill ... A novel approach was developed for the energetic valorisation and treatment of olive mill wastewater (OMW), combining anaerobic digestion and electrochemical oxidation. The electrochemical treatment was proposed as the final step to mineralize the remaining OMW fraction from the anaerobic reactor. Electrochemical mineralization of anaerobically digested ... As an example, olive mill wastewater (OMW) is known for its environmental impact and treatment/valorization difficulties [23–25]. Anaerobic digestion is a promising technology for the treatment of the organic effluents and for the simultaneous recovery of its energetic potential through methane production [26 , 27]. Energetic and biochemical valorization of cork boiling ... Aerobic Post-treatment of Different Anaerobically Digested Palm Oil Mill Effluent (POME). International Journal of Environmental Science and Development 2016, 7 (7) , 511-515. DOI: 10.18178/ijesd.2016.7.7.830. Yijing

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