A Bibliometric Analysis on the Reuse of Olive Oil Mill Wastewater

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Abstract:

The reuse of Olive Oil Mill Wastewaters, generated during the olive milling process, presents a sustainable approach to managing waste and enhancing resource efficiency in olive oil production. These waters, rich in organic compounds, pose environmental challenges if not properly treated. This study explores the potential applications of these by-products, focusing on their use in different sector. By utilizing the Scopus database along with the VOSviewer software, a bibliometric analysis was assessed to uncover trends and focal points in the management and valorization of olive oil mill wastewater. The bibliometric analysis indicated an increasing interest in their reuse to obtain innovative products to enhance sustainability and minimize environmental impact. Recent research has particularly focused on its reuse in sectors such as food, due to its high polyphenol content, and as a substitute for water in processes that do not require pre-treatment. The findings suggest that these waters can contribute to sustainable agricultural practices, reduce environmental impact, and support circular economy initiatives in the agro-food sector. This research underscores the importance of integrating waste management solutions within olive oil production, paving the way for more eco-friendly practices in the industry.

Keywords:

Olive Oil Mill Wastewater; Bibliometric analysis; Circular economy.