

Accepted Manuscript

Title: Codigestion of sludge and citrus peel wastes: Evaluating the effect of biochar addition on microbial communities

Authors: E. Judith Martínez, Jose Guillermo Rosas, Ana Sotres, Antonio Moran, Jorge Cara, Marta Elena Sánchez, Xiomar Gómez



PII: S1369-703X(18)30193-1
DOI: <https://doi.org/10.1016/j.bej.2018.06.010>
Reference: BEJ 6974

To appear in: *Biochemical Engineering Journal*

Received date: 1-2-2018
Revised date: 16-5-2018
Accepted date: 8-6-2018

Please cite this article as: Martínez EJ, Rosas JG, Sotres A, Moran A, Cara J, Sánchez ME, Gómez X, Codigestion of sludge and citrus peel wastes: Evaluating the effect of biochar addition on microbial communities, *Biochemical Engineering Journal* (2018), <https://doi.org/10.1016/j.bej.2018.06.010>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Codigestion of sludge and citrus peel wastes: Evaluating the effect of biochar addition on microbial communities

E. Judith Martínez^(a), Jose Guillermo Rosas^(b), Ana Sotres^(a), Antonio Moran, Jorge Cara^(a),
Marta Elena Sánchez^(a), Xiomar Gómez^{(a)*}

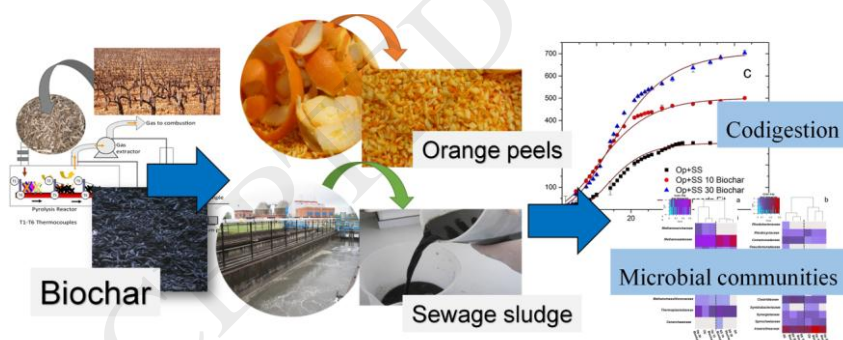
^(a)Chemical and Environmental Bioprocess Engineering Group, Natural Resources Institute (IRENA), University of León, Av. de Portugal 41, 24009, Leon, Spain

^(b)Department of electric engineering, School of Industrial Engineering and Informatics, University of León, Campus de Vegazana, 24009, León, Spain.

**E-mail of the corresponding author: xagomb@unileon.es Telephone number: +34 987 29*

5349

Graphical abstract



Highlights

- Biochar had a positive influence on digestion of sludge and orange peels waste
- Eubacterial populations were more sensitive than archaeal to biochar addition
- Biochar provides higher surface area favoured adhesion and growth of microorganisms

Download English Version:

<https://daneshyari.com/en/article/6483911>

Download Persian Version:

<https://daneshyari.com/article/6483911>

[Daneshyari.com](https://daneshyari.com)