

Accepted Manuscript

Title: Microcosm incubation study for monitoring the mid-term effects of different biochars on acidic sandy soil applying a multiparameter approach

Authors: Éva Farkas, Viktória Feigl, Katalin Gruiz, Emese Vaszita, Éva Ujaczki, Ildikó Fekete-Kertész, Mária Tolner, Csongor Márk Horváth, Zsófia Berkl, Nikolett Uzinger, Márk Rékási, Mónika Molnár

PII: S0957-5820(18)30728-6
DOI: <https://doi.org/10.1016/j.psep.2018.08.027>
Reference: PSEP 1497

To appear in: *Process Safety and Environment Protection*

Received date: 27-2-2018
Revised date: 20-8-2018
Accepted date: 20-8-2018

Please cite this article as: Farkas É, Feigl V, Gruiz K, Vaszita E, Ujaczki É, Fekete-Kertész I, Tolner M, Horváth CM, Berkl Z, Uzinger N, Rékási M, Molnár M, Microcosm incubation study for monitoring the mid-term effects of different biochars on acidic sandy soil applying a multiparameter approach, *Process Safety and Environmental Protection* (2018), <https://doi.org/10.1016/j.psep.2018.08.027>

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.



Microcosm incubation study for monitoring the mid-term effects of different biochars on acidic sandy soil applying a multiparameter approach

Éva Farkas^{1*}, Viktória Feigl¹, Katalin Gruiz¹, Emese Vaszita¹, Éva Ujaczki¹, Ildikó Fekete-Kertész¹, Mária Tolner¹, Csongor Márk Horváth², Zsófia Berkl¹, Nikolett Uzinger³, Márk Rékási³, Mónika Molnár¹

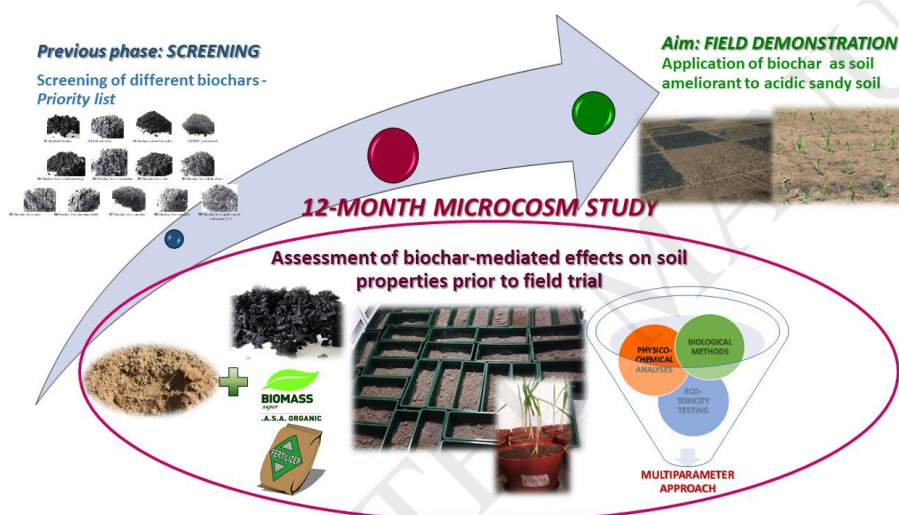
¹ Budapest University of Technology and Economics, Department of Applied Biotechnology and Food Science, Faculty of Chemical Technology and Biotechnology; Budapest, Műegyetem rkp. 3., HUNGARY

² Budapest University of Technology and Economics, Department of Mechatronics, Optics and Mechanical Engineering Informatics, Faculty of Mechanical Engineering; Budapest, Műegyetem rkp. 3., HUNGARY

³ Institute for Soil Sciences and Agricultural Chemistry, Centre for Agricultural Research, Hungarian Academy of Sciences Budapest, Herman Ottó street 15., HUNGARY

*Corresponding author's full address, phone and e-mail: 1111, Budapest, Műegyetem rkp. 3., HUNGARY, +36309737366, farkas.eva@mail.bme.hu

Graphical abstract



HIGHLIGHTS

- Effects of biochars on soil properties were different in terms of extent and time.
- Multiparameter approach supported the selection of the most optimal treatment.
- 1% grain husk - paper fibre sludge biochar improved efficiently soil characteristics.
- 0.5% woodscreenings biochar with fertilizer was the most effective after 12 months.

Download English Version:

<https://daneshyari.com/en/article/8960248>

Download Persian Version:

<https://daneshyari.com/article/8960248>

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