

ERRATUM

Open Access



Erratum to: Characterization of biochars produced from peanut hulls and pine wood with different pyrolysis conditions

James W. Lee^{1,4*}, Bob Hawkins², Michelle K. Kidder¹, Barbara R. Evans¹, Sokwon Paik¹, A. C. Buchanan¹ and Danny Day³

Erratum to: *Bioresour. Bioprocess.* (2016) 3:15 DOI 10.1186/s40643-016-0092-x

After the publication of this work (Lee et al. 2016), the authors noticed that this manuscript was published with an incomplete author list. The co-author Sokwon Paik has now been added to the author list. The new Competing interests, Authors' contributions and Acknowledgements sections are given below:

Authors' contributions

JWL conducted the overall biochar research project, analyzed data, and drafted the manuscript. BH and DD conducted the biochar production processes and co-wrote the description of biochar product samples and their associated production processes. SP performed the scanning electron microscopic (SEM) imaging of biochar samples. BRE carried out CEC assays, biochar wet sieving, and statistical analysis and co-wrote the manuscript. MKK and ACB conducted the biochar elemental analysis, BET and FTIR measurements and co-wrote the manuscript. All authors read and approved the final manuscript.

Author details

¹ Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, TN 37831, USA. ² BiocharConsulting, 375 Rumson Rd, Athens, GA 30605, USA. ³ Eprida Technologies, LLC, 4374 Shallowford Industrial Parkway, Marietta, GA 30066, USA. ⁴ Department of Chemistry and Biochemistry, Old Dominion University, Physical Sciences Building 3100, 4402 Elkhorn Ave, Norfolk, VA 23259, USA.

Acknowledgements

The authors wish to thank Charles T. Garten, Deanne J. Brice, and Tanya Bunch for their assistance in helping the measurement of cation exchange capacity; and Mac Post and Joe Katz for stimulating discussions. This research was

sponsored by the Laboratory Directed Research and Development Program of Oak Ridge National Laboratory, managed by UT-Battelle, LLC, for the US Department of Energy, by the US Department of Energy (DOE) Office of Science Young Scientist Award, by the US Presidential Early Career Award for Scientists and Engineers (to J. W. Lee), and by USDA Grant No. 68-3A75-5-233. Part of this research was conducted at the Center for Nanophase Materials Sciences, which is a DOE Office of Science User Facility. Oak Ridge National Laboratory is managed by UT-Battelle, LLC, for DOE under contract No. DE-AC05-00OR22725.

Competing interests

All the authors including Sokwon Paik (SP) here declare no competing interests.

The online version of the original article can be found under doi:10.1186/s40643-016-0092-x.

Received: 14 June 2016 Accepted: 15 June 2016

Published online: 18 July 2016

Reference

Lee JW, Hawkins B, Kidder MK, Evans BR, Paik S, Buchanan AC, Day D (2016) Characterization of biochars produced from peanut hulls and pine wood with different pyrolysis conditions. *Bioresour Bioprocess* 3:15

*Correspondence: jwlee@odu.edu

⁴ Department of Chemistry and Biochemistry, Old Dominion University, Physical Sciences Building 3100, 4402 Elkhorn Ave, Norfolk, VA 23259, USA
Full list of author information is available at the end of the article