

PRESENTATIONS at CONFERENCES

- May 2016 Gabbert S., Nendza M., Hilber I., Warwick O.; *Socio-economic analysis for REACH authorisations of PBT and vPvB chemicals: Approaches and decision criteria*. Setac, Nantes, France
- Sep. 2014 Hilber I., Schmidt H.P., and Bucheli T.D.; *Heterogene Pflanzenkohle - Folgen und Massnahmen für eine repräsentative Probenahme*. Pflanzenkohleworkshop, Bingen, Germany
- Jan. 2014 De La Rosa J.M., Blum F., Bucheli T. D., Hilber I., Knicker H.E., Miller A. Z., and Paneque M.; *Analytical characterisation and PAH assessment of four biochars and a biochar amended cambisol from Southern Spain*. 2nd Mediterranean Biochar Symposium, Palermo, Italia
- Sep. 2012 Hilber I., Blum F., Schmidt H.P., Hale S., Cornelissen G., Bürge D., and Bucheli T.D.; *Biochar: Contaminant source or sink?* Symposium des ANS, Berlin, Germany
- Sep. 2011 Younas A., Hilber I., Khwaja M., Rehman S., and Bucheli T.D.; *Crystalline DDT in soil - can activated charcoal remediate?* ICCE, Zurich, Schweiz
- May 2010 Younas A., Hilber I., Khwaja M., Khan S., and Bucheli T.D.; *Evaluation of activated carbon amendment for reclamation of a DDT contaminated site in Pakistan (ACDC)*. Setac, Sevilla, Spain
- Nov. 2009 Hilber I.; *Reduction of dieldrin uptake from contaminated soil by cucumber (*Cucumis sativus L.*) using activated charcoal*. Pacific Basin Consortium, Perth, Australia
- Nov. 2009 Younas A., Hilber I., Khwaja M., Khan S. und Bucheli T.D.; *Activated carbon amendment and DDT contaminated soil*. Pacific Basin Consortium, Perth, Australia
- Nov. 2008 Hilber I., Bucheli T.D., Wyss G.S., Mäder P. und Schulin R.; *Binding of dieldrin in soil and assessment of bioavailability*. Setac, Tampa, USA
- Sep. 2008 Hilber I.; *Nutrient uptake of cucumber plants in activated charcoal amended soil*. COST 859, Lillehammer, Norway
- Aug. 2008 Hilber I.; *Binding of organochlorine pesticides in soil and assessment of phytoavailability*. Eurosoil Congress, Wien, Austria
- Oct. 2007 Hilber I.; *Exclusion of dieldrin in cucumbers by charcoal amendment into soil*. COST 859, Sede-Boqer Campus, Israel
- Sept. 2006 Hilber I., Wyss G.S., Mäder P. und Schulin R.; *Organochlorine pesticide residues in Swiss soil and a concept of bioavailability*. COST 859, Saint-Etienne, France

Sept. 2006

Hilber I., Wyss G.S., Mäder P. und Schulin R.; *Organochlorverbindungen in Schweizer Böden und Strategien zur nachhaltigen Lebensmittelproduktion*. Schweizerische Gesellschaft für Lebensmittel und Umweltchemie (SGLUC), Solothurn, Switzerland

PEER REVIEWED PUBLICATIONS

- Hilber I., Bastos A., Loureiro S., Soja G., Marsz A., Cornelissen G., Bucheli T.D.; *The different faces of biochar: Contamination risk versus remediation tool*. Journal of Environmental Engineering and Landscape Management, accepted for publication, Oct. 2016.
- Hilber I., Schmidt H.P., Bucheli T.D.; *Sampling, storage and preparation of biochar for laboratory analysis*. Chapter 1 in the book "Biochar A GUIDE TO ANALYTICAL METHODS" by Singh B., Camps-Arbestain M., Lehmann J., CSIRO, Australia, in press, 2016.
- Madej J., Hilber I., Bucheli T.D., Oleszczuk P.; *Biochars with low polycyclic aromatic hydrocarbon concentrations achievable by pyrolysis under high carrier gas flows irrespective of oxygen content or feedstock*. Journal of Analytical and Applied Pyrolysis, in press, 2016.
- Mayer P., Hilber I., Gouliarmou, V., Hale S.E., Cornelissen G., Bucheli T.D.; *How to determine the environmental exposure of PAHs originating from biochar*. Environmental Science and Technology, 50(4), p: 1941-1948, 2016.
- Koltowski M., Hilber I., Bucheli T.D., Oleszczuk P.; *Effect of activated carbon and biochars on the bioavailability of polycyclic aromatic hydrocarbons in different industrially contaminated soils*. Environmental Science and Pollution Research, 23(11), p: 11058-11068, 2016.
- Koltowski M., Hilber I., Bucheli T.D., Oleszczuk P.; *Effect of steam activated biochar application to industrially contaminated soils on bioavailability of polycyclic aromatic hydrocarbons and ecotoxicity of soils*. Science of the Total Environment, 566567, p: 1023-1031, 2016.
- Gabbert S., Hilber I.; *Time matters: A stock-pollution approach to authorisation decision-making for PBT/vPvB chemicals under REACH*. Journal of Environmental Management, 183, p: 236-244, 2016.
- De la Rosa, J.M.; Paneque M., Hilber I., Blum F., Knicker H.E., Bucheli T.D.; *Assessment of polycyclic aromatic hydrocarbons in biochar and biochar-amended agricultural soil from Southern Spain*. Journal of Soils and Sediments, 16(2), p: 557-565, 2016.
- Bucheli T.D., Hilber I., Schmidt H.P.; *Polycyclic Aromatic Hydrocarbons and Polychlorinated Aromatic Compounds in Biochar*. Chapter 21 in the book "Biochar for Environmental Management" by Lehmann J., Joseph S., Earthscan, London, UK, p: 944, 2015
- Gosselin M.C., Neufeld E., Moser H., Huber E., Farcito S., Gerber L., Jedensjo M., Hilber I., Di Gennaro F., Lloyd B., Cherubini E., Szczerba D., Kainz W., Kuster N.; *Development of a new generation of high-resolution anatomical models for medical device evaluation: the Virtual Population 3.0* Physics in Medicine and Biology, 59(18), p: 5287-5303, 2014.

- Bucheli T.D., Bachmann H.J., Blum F., Bürge D., Giger R., Hilber I., Keita J., Leifeld J., Schmidt H.P.; *On the heterogeneity of biochar and consequences for its representative sampling*. Journal of Analytical and Applied Pyrolysis, 107(0), p: 25-30, 2014.
- Younas A., Hilber I., Rehman S., Khwaja M. und Bucheli T.D.; *Former DDT-factory revisited for remediation: Severe DDT concentrations in soils and plants from within the area*. Environmental Science and Pollution Research, 20(4), p: 1966-1976, 2013.
- Hilber I., Blum F., Leifeld J., Schmidt HP. und Bucheli T.D.; *Quantitative determination of PAHs in biochar – a prerequisite to assure its quality and safe application*. Journal of Agricultural and Food Chemistry, 60(12), p: 3042-3050, 2012
- Hilber I. und Bucheli T.D.; *Activated carbon amendment to remediate contaminated sediments and soils: A review*. Global NEST Journal, 12(3), p: 305-317, 2010.
- Hilber I., Bucheli T.D., Wyss G.S. und Schulin R.; *Assessing the phytoavailability of dieldrin residues in charcoal-amended soil using Tenax® extraction*. Journal of Agricultural and Food Chemistry, 57(10), p: 4293-4298, 2009.
- Hilber I., Bucheli T.D., Wyss G.S., Mäder P., Meier I., Vogt L. und Schulin R.; *Influence of activated charcoal amendment to contaminated soil on dieldrin and nutrient uptake by cucumbers*. Environmental Pollution, 157(8-9), p: 2224-2230, 2009.
- Hilber I., Mäder P., Schulin R. und Wyss G.S.; *Survey of organochlorine pesticides in horticultural soils and there grown Cucurbitaceae*. Chemosphere, 73(6), p: 954-961, 2008.
- Hilber I., Voegelin A., Barmettler K. und Kretzschmar R.; *Plant availability of Zinc and Copper in soil after contamination with brass foundry filter dust: Effect of four years of aging*. Journal of Environmental Quality, 36(1), p: 44-52, 2007.

PUBLICATIONS

- Thomas Bucheli, Isabel Hilber, Agroscope ART; Hans-Peter Schmidt, Delinat-Institut; *PAK in Pflanzenkohle: Nicht den Teufel mit dem Beelzebub austreiben!* compost magazine, 2/2012
- Isabel Hilber; *Entwicklungshilfe der anderen ART*. Stand der Arbeiten, 2010 FG 31.5; <http://www.agroscope.admin.ch/analytische-chemie/index.html>
- Isabel Hilber; *Pestizidbindung durch Aktivkohle*. Journal für Terroirwein, Biodiversität und Klimafarming, 13. Februar 2009; <http://www.delinat.com/ithaka/pestizidbindung-durch-aktivkohle>
- Isabel Hilber; *Reduction of dieldrin uptake by cucumber (Cucumis sativus L.) using activated charcoal amended soil*. Dissertation ETH Nr. 18167, Dezember 2008