

Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung GmbH – UFZ

Forschen für die Umwelt

Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahre 2015 erschienenen Publikationen, die von Mitarbeitern der Helmholtz-Zentrum für Umweltforschung GmbH - UFZ verfasst, mitverfasst oder herausgegeben wurden.

Redaktionsschluss für diese Publikationsliste war der 15. März 2016.

Im Unterschied zu externen Autoren sind UFZ Angehörige bei allen Publikationen durch **fette Schrift** hervorgehoben.

Das anschließende alphabetische Register verzeichnet alle UFZ Autoren mit den jeweiligen laufenden Nummern ihrer Publikationen.

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Artikel in ISI und SCOPUS gelisteten Zeitschriften

1. **Achtenhagen, J.**, Goebel, M.-O., **Miltner, A.**, Woche, S.K., **Kästner, M.** (2015):
Bacterial impact on the wetting properties of soil minerals
Biogeochemistry **122** (2-3), 269 - 280
2. **Adam, I.K.U.**, **Miltner, A.**, **Kästner, M.** (2015):
Degradation of ¹³C-labeled pyrene in soil-compost mixtures and fertilized soil
Appl. Microbiol. Biotechnol. **99** (22), 9813 - 9824
3. Ahrens, V.M., Kostelnik, K.B., Rennert, R., Böhme, D., **Kalkhof, S.**, Kosel, D.,
Weber, L., **von Bergen, M.**, Beck-Sickinger, A.G. (2015):
A cleavable cytolyisin-neuropeptide Y bioconjugate enables specific drug delivery and
demonstrates intracellular mode of action
J. Control. Release **209** , 170 - 178
4. **Albert, C.**, von Haaren, C., Vargas-Moreno, J.C., Steinitz, C. (2015):
Teaching scenario-based planning for sustainable landscape development: An evaluation
of learning effects in the Cagliari studio workshop
Sustainability **7** (6), 6872 - 6892
5. Alexander, P., Rounsevell, M.D.A., **Dislich, C.**, Dodson, R.J., Engström, K., Moran, D.
(2015):
Drivers for global agricultural land use change: The nexus of diet, population, yield and
bioenergy
Glob. Environ. Change **35** , 138 - 147
6. **Algara, C.**, Vasileiadis, S., **Wasmund, K.**, Trevisan, M., Krüger, M., Puglisi, E., **Adrian, L.** (2015):
Manganese and iron as structuring parameters of microbial communities in Arctic marine
sediments from the Baffin Bay
FEMS Microbiol. Ecol. **91** (6), fiv056
7. Algreen, M., Kalisz, M., Stalder, M., Martac, E., Krupanek, J., Trapp, S., **Bartke, S.**
(2015):
Using pre-screening methods for an effective and reliable site characterization at
megasites
Environ. Sci. Pollut. Res. **22** (19), 14673 - 14686
8. Ali, R., **Trump, S.**, **Lehmann, I.**, Hanke, T. (2015):
Live cell imaging of the intracellular compartmentalization of the contaminant
benzo[a]pyrene
J. Biophotonics **8** (5), 361 - 371

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Future water quality monitoring — Adapting tools to deal with mixtures of pollutants in water resource management
Sci. Total Environ. **512-513**, 540 - 551
10. Andersson, E., McPearson, T., Kremer, P., Gomez-Baggethun, E., **Haase, D.**, Tuvendal, M., Wurster, D. (2015):
Scale and context dependence of ecosystem service providing units
Ecosystem Services **12**, 157 - 164
11. **Anis, M.R., Rode, M.** (2015):
Effect of climate change on overland flow generation: a case study in central Germany
Hydrol. Process. **29** (11), 2478– - 2490
12. **Anis, M.R., Rode, M.** (2015):
A new magnitude category disaggregation approach for temporal high-resolution rainfall intensities
Hydrol. Process. **29** (6), 1119 - 1128
13. Šantl-Temkiv, T., Sahyoun, M., Finster, K., Hartmann, S., Augustin-Bauditz, S., Stratmann, F., Wex, H., Clauss, T., Woetmann Nielsen, N., Havskov Sørensen, J., Smith Korsholm, U., **Wick, L.Y.**, Gosewinkel Karlson, U. (2015):
Characterization of airborne ice-nucleation-active bacteria and bacterial fragments
Atmos. Environ. **109**, 105 - 117
14. Araya, K., Ugarte, A., Azócar, L., Valerio, O., **Wick, L.Y.**, Ciudad, G. (2015):
Whole cell three phase bioreactors allow for effective production of fatty acid alkyl esters derived from microalgae lipids
Fuel **144**, 25 - 32
15. Archfield, S.A., Clark, M., Arheimer, B., Hay, L.E., McMillan, H., Kiang, J.E., Seibert, J., Hakala, K., Bock, A., Wagener, T., Farmer, W.H., Andréassian, V., **Attinger, S.**, Viglione, A., Knight, R., Markstrom, S., Over, T. (2015):
Accelerating advances in continental domain hydrologic modeling
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Assessing the structural adequacy of alternative ecohydrological models using a pattern-oriented approach
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17. Ashauer, R., O'Connor, I., Hintermeister, A., **Escher, B.I.** (2015):
Death dilemma and organism recovery in ecotoxicology
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Effects of light and autochthonous carbon additions on microbial turnover of allochthonous organic carbon and community composition
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19. Bachmann, D., Gockele, A., Ravenek, J.M., **Roscher, C.**, Strecker, T., Weigelt, A., Buchmann, N. (2015):
No evidence of complementary water use along a plant species richness gradient in temperate experimental grasslands
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20. **Bahr, A.**, Fischer, A., Vogt, C., Bombach, P. (2015):
Evidence of polycyclic aromatic hydrocarbon biodegradation in a contaminated aquifer by combined application of in situ and laboratory microcosms using ¹³C-labelled target compounds
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21. **Banitz, T.**, Gras, A., Ginovart, M. (2015):
Individual-based modeling of soil organic matter in NetLogo: Transparent, user-friendly, and open
Environ. Modell. Softw. **71** , 39 - 45
22. Bao, Z., Haberer, C., **Maier, U.**, Beckingham, B., Amos, R.T., Grathwohl, P. (2015):
Modeling long-term uptake and re-volatilization of semi-volatile organic compounds (SVOCs) across the soil-atmosphere interface
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Mismatches between ecosystem services supply and demand in urban areas: a quantitative assessment in five European cities
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25. **Baroni, G.**, Oswald, S.E. (2015):
A scaling approach for the assessment of biomass changes and rainfall interception using cosmic-ray neutron sensing
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26. Barreto, A.B., Vasconcellos, G.R., von Sperling, M., **Kuschk, P.**, **Kappelmeyer, U.**, Vasel, J.L. (2015):
Field application of a planted fixed bed reactor (PFR) for support media and rhizosphere investigation using undisturbed samples from full-scale constructed wetlands
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27. Barthel, C., Sorger, D., Deuther-Conrad, W., Scheunemann, M., **Schweiger, S.**, Jäckel, P., Roghani, A., Steinbach, J., **Schüürmann, G.**, Sabri, O., Brust, P., Wenzel, B. (2015):
New systematically modified vesamicol analogs and their affinity and selectivity for the vesicular acetylcholine transporter – A critical examination of the lead structure
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28. **Bartke, S.**, **Schwarze, R.** (2015):
No perfect tools: Trade-offs of sustainability principles and user requirements in designing support tools for land-use decisions between greenfields and brownfields
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29. **Bartkowski, B.**, Lienhoop, N., Hansjürgens, B. (2015):
Capturing the complexity of biodiversity: A critical review of economic valuation studies of biological diversity
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Collaborative governance and the challenges of participatory climate change adaptation planning in Santiago de Chile
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31. **Bashir, S.**, **Hitzfeld, K.L.**, Gehre, M., Richnow, H.H., Fischer, A. (2015):
Evaluating degradation of hexachlorcyclohexane (HCH) isomers within a contaminated aquifer using compound-specific stable carbon isotope analysis (CSIA)
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32. Bastida, F., García, C., **von Bergen, M.**, Moreno, J.L., Richnow, H.H., Jehmlich, N. (2015): Deforestation fosters bacterial diversity and the cyanobacterial community responsible for carbon fixation processes under semiarid climate: a metaproteomics study
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33. **Bauer, M.**, Linsel, G., Fink, B., Offenberg, K., Hahn, A.M., Sack, U., Knaack, H., Eszlinger, M., Herberth, G. (2015): A varying T cell subtype explains apparent tobacco smoking induced single CpG hypomethylation in whole blood
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34. **Becker, J.M.**, Liess, M. (2015): Biotic interactions govern genetic adaptation to toxicants
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35. **Begg, C.**, Walker, G., **Kuhlicke, C.** (2015): Localism and flood risk management in England: the creation of new inequalities?
Environ. Plan. C-Gov. Policy **33** (4), 685 - 702
36. Bennett, E.M., Cramer, W., Begossi, A., Cundill, G., Díaz, S., Egoh, B.N., Geijzendorffer, I.R., Krug, C.B., Lavorel, S., Lazos, E., Lebel, L., Martín-López, B., Meyfroidt, P., Mooney, H.A., Nel, J.L., Pascual, U., Payet, K., Harguindeguy, N.P., Peterson, G.D., Prieur-Richard, A.-H., Reyers, B., Roebeling, P., **Seppelt, R.**, Solan, M., Tscharnert, P., Tscharntke, T., Turner, B.L. II , Verburg, P.H., Viglizzo, E.F., White, P.C.L., Woodward, G. (2015): Linking biodiversity, ecosystem services, and human well-being: three challenges for designing research for sustainability
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37. Berggren, E., Amcoff, P., Benigni, R., Blackburn, K., Carney, E., Cronin, M., Deluyker, H., Gautier, F., Judson, R.S., Kass, G.E.N., Keller, D., Knight, D., Lilienblum, W., Mahony, C., Rusyn, I., Schultz, T., Schwarz, M., **Schüürmann, G.**, White, A., Burton, J., Lostia, A.M., Munn, S., Worth, A. (2015): Chemical safety assessment using read-across: assessing the use of novel testing methods to strengthen the evidence base for decision making
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Impact of potassium on plant uptake of non-exchangeable NH₄⁺-N
Plant Soil **387** (1-2), 37 - 47
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42. Bierbaß, P., **Gutknecht, J.L.M.**, Michalzik, B. (2015):
Nest-mounds of the yellow meadow ant (*Lasius flavus*) at the “Alter Gleisberg”, Central Germany: Hot or cold spots in nutrient cycling?
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43. Bierkens, M.F.P., Bell, V.A., Burek, P., Chaney, N., Condon, L.E., David, C.H., de Roo, A., Döll, P., Drost, N., Famiglietti, J.S., Flörke, M., Gochis, D.J., Houser, P., Hut, R., Keune, J., Kollet, S., Maxwell, R.M., Reager, J.T., **Samaniego, L.**, Sudicky, E., Sutanudjaja, E.H., van de Giesen, N., Winsemius, H., Wood, E.F. (2015):
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"Everywhere and locally relevant"
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Comparison of different models predicting the phospholipid-membrane water partition coefficients of charged compounds
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46. **Bleicher, A.**, Gross, M. (2015):
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50. **Bocaniov, S.A.**, Schiff, S.L., Smith, R.E.H. (2015): Non steady-state dynamics of stable oxygen isotopes for estimates of metabolic balance in large lakes
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52. Bohu, T., Santelli, C.M., Akob, D.M., **Neu, T.R.**, Ciobota, V., Rösch, P., Popp, J., Nietzsche, S., Küsel, K. (2015): Characterization of pH dependent Mn(II) oxidation strategies and formation of a bixbyite-like phase by *Mesorhizobium australicum* T-G1
Frontiers in Microbiology **6**, art. 734
53. **Bombach, P., Nägele, N., Rosell, M., Richnow, H.H.**, Fischer, A. (2015): Evaluation of ethyl *tert*-butyl ether biodegradation in a contaminated aquifer by compound-specific isotope analysis and *in situ* microcosms
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56. **Borsdorf, H.**, Ewing, R.G. (2015): Gas phase ion chemistry: what do we know about reactions and ion formation? (Editorial)
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57. **Borsdorf, H.**, Fiedler, P., Mayer, T. (2015): The effect of humidity on gas sensing with ion mobility spectrometry
Sens. Actuator B-Chem. **218**, 184 - 190
58. Bowler, D.E., Haase, P., Kröncke, I., Tackenberg, O., Bauer, H.G., Brendel, C., Brooker, R.W., **Gerisch, M.**, Henle, K., Hickler, T., Hof, C., **Klotz, S.**, **Kühn, I.**, Matesanz, S., O'Hara, R., Russell, D., **Schweiger, O.**, Valladares, F., Welk, E., **Wiemers, M.**, Böhning-Gaese, K. (2015): A cross-taxon analysis of the impact of climate change on abundance trends in central Europe
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59. **Brack, W.** (2015): *The Challenge*: Prioritization of emerging pollutants
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Implication of evolution and diversity in arbuscular and ectomycorrhizal symbioses
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