

Veröffentlichungen

des Helmholtz-Zentrums für Umweltforschung GmbH – UFZ

Forschungsbereich Erde und Umwelt

Forschen für die Umwelt

Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahre 2014 erschienenen Publikationen des Forschungsbereichs Erde und Umwelt, die von Mitarbeitern der Helmholtz-Zentrum für Umweltforschung GmbH - UFZ verfasst, mitverfasst oder herausgegeben wurden.

Redaktionsschluss für diese Publikationsliste war der 10. März 2015.

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. Abid, K., Ammar, F.H., **Weise, S.**, Zouari, K., Chkir, N., Rozanski, K., **Osenbrück, K.** (2014):
Geochemistry and residence time estimation of groundwater from Miocene–Pliocene and Upper Cretaceous aquifers of Southern Tunisia
Quat. Int. **338** , 59 - 70
2. Adam, I.K.U., Rein, A., **Miltner, A.**, **Fulgêncio, A.C.D.**, Trapp, S., **Kästner, M.** (2014):
Experimental results and integrated modelling of bacterial growth on insoluble hydrophobic substrate (phenanthrene)
Environ. Sci. Technol. **48** (15), 8717 - 8726
3. Ahumada-Santos, Y.P., Báez-Flores, M.E., Díaz-Camacho, S.P., Uribe-Beltrán, M.J., López-Angulo, G., Vega-Aviña, R., Chávez-Duran, F.A., Montes-Avila, J., Carranza-Díaz, O., **Möder, M.**, **Kusch, P.**, Delgado-Vargas, F. (2014):
Spatiotemporal distribution of the bacterial contamination of agricultural and domestic wastewater discharged to a drainage ditch (Sinaloa, Mexico). Distribución espaciotemporal de la contaminación bacteriana del agua residual agrícola y doméstica descargada a un canal de drenaje (Sinaloa, México)
Ceinc. Mar. **40** (4), 277 - 289
4. **Aicher, C.** (2014):
Discourse practices in environmental governance: social and ecological safeguards of REDD
Biodivers. Conserv. **23** (14), 3543 - 3560
5. **Akter, S.**, Grafton, R.Q., Merritt, W.S. (2014):
Integrated hydro-ecological and economic modeling of environmental flows: Macquarie Marshes, Australia
Agric. Water Manage. **145** , 98 - 109
6. Alalouni, U., Brandl, R., **Auge, H.**, **Schädler, M.** (2014):
Does insect herbivory on oak depend on the diversity of tree stands?
Basic Appl. Ecol. **15** (8), 685 - 692
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Natural enemies of the gypsy moth (Lepidoptera: Lymantriidae) at low population density
Entomol. Gen. **35** (2), 117 - 127
8. **Albert, C.**, Aronson, J., Fürst, C., Opdam, P. (2014):
Integrating ecosystem services in landscape planning: requirements, approaches, and impacts
Landsc. Ecol. **29** (8), 1277 - 1285

9. **Albert, C., Hauck, J.,** Buhr, N., von Haaren, C. (2014):
What ecosystem services information do users want? Investigating interests and requirements among landscape and regional planners in Germany
Landscape Ecol. **29** (8), 1301 - 1313
10. **Alexandrescu, F., Bleicher, A., Weiss, V.** (2014):
Transdisciplinarity in practice: the emergence and resolution of dissonances in collaborative research on brownfield regeneration
Interdiscip. Sci. Rev. **39** (4), 307 - 322
11. **Alexandrescu, F.,** Martinát, S., Klusáček, P., **Bartke, S.** (2014):
The path from passivity toward entrepreneurship: public sector actors in brownfield regeneration processes in Central and Eastern Europe
Organ. Environ. **27** (2), 181 - 201
12. **Altdorff, D., Dietrich, P.** (2014):
Delineation of areas with different temporal behavior of soil properties at a landslide affected Alpine hillside using time-lapse electromagnetic data
Environ. Earth Sci. **72** (5), 1357 - 1366
13. Andresen, E., Kroenlein, S., **Mattusch, J.,** Wellenreuther, G., **Arroyo Abad, U., Stärk, H.-J.,** Thomas, G., Küpper, H. (2014):
Toxicity and detoxification of cadmium in the aquatic macrophyte *Ceratophyllum demersum*
J. Biol. Inorg. Chem. **19** (Suppl. 2), S774 - S774
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Sweets for the foe – effects of nonstructural carbohydrates on the susceptibility of *Quercus robur* against *Phytophthora quercina*
New Phytol. **203** (4), 1282 - 1290
15. Arnold, C., Externbrink, F., **Hackermüller, J., Reiche, K.** (2014):
CEM-Designer: Design of custom expression microarrays in the post-ENCODE era
J. Biotechnol. **189** , 154 - 156
16. Arnot, J.A., **Brown, T.N.,** Wania, F. (2014):
Estimating screening-level organic chemical half-lives in humans
Environ. Sci. Technol. **48** (1), 723 - 730

17. Aronson, M.F.J., La Sorte, F.A., Nilon, C.H., Katti, M., Goddard, M.A., Lepczyk, C.A., Warren, P.S., Williams, N.S.G., Cilliers, S., Clarkson, B., Dobbs, C., Dolan, R., Hedblom, M., **Klotz, S.**, Kooijmans, J.L., **Kühn, I.**, MacGregor-Fors, I., McDonnell, M., Mörtberg, U., Pyšek, P., Siebert, S., Sushinsky, J., Werner, P., **Winter, M.** (2014):
A global analysis of the impacts of urbanization on bird and plant diversity reveals key anthropogenic drivers
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Arsenolipids in commercial canned cod liver: an occurrence and distribution study
Eur. J. Lipid Sci. Technol. **116** (10), 1381 - 1387
19. Attermeyer, K., Hornick, T., Kayler, Z.E., **Bahr, A.**, Zwirnmann, E., Grossart, H.-P., Premke, K. (2014):
Enhanced bacterial decomposition with increasing addition of autochthonous to allochthonous carbon without any effect on bacterial community composition
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20. Augusiak, J., van den Brink, P.J., **Grimm, V.** (2014):
Merging validation and evaluation of ecological models to 'evaluation': a review of terminology and a practical approach
Ecol. Model. **280** , 117 - 128
21. Ávila, C., **Nivala, J.**, Olsson, L., Kassa, K., **Headley, T., Mueller, R.A.**, Bayona, J.M., García, J. (2014):
Emerging organic contaminants in vertical subsurface flow constructed wetlands: Influence of media size, loading frequency and use of active aeration
Sci. Total Environ. **494–495** , 211 - 217
22. **Ayllón, D.**, Nicola, G.G., Parra, I., Elvira, B., Almodóvar, A. (2014):
Spatio-temporal habitat selection shifts in brown trout populations under contrasting natural flow regimes
Ecohydrology **7** (2), 569 - 579
23. Bacelar, F.S., **Calabrese, J.M.**, Hernández-García, E. (2014):
Exploring the tug of war between positive and negative interactions among savanna trees: Competition, dispersal, and protection from fire
Ecol. Complex. **17** , 140 - 148
24. **Bahlmann, A. A., Brack, W.**, Schneider, R.J., **Krauss, M.** (2014):
Carbamazepine and its metabolites in wastewater: Analytical pitfalls and occurrence in Germany and Portugal
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25. Ballhorn, D.J., Godschalx, A.L., Smart, S.M., Kautz, S., **Schädler, M.** (2014):
Chemical defense lowers plant competitiveness
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A conceptual framework for integrated analysis of environmental quality and quality of life
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Environmental Policy and Law **44** (4), 368 - 371
29. Bartsch, S., Frei, S., Ruidisch, M., Shope, C.L., Peiffer, S., Kim, B., **Fleckenstein, J.H.** (2014):
River-aquifer exchange fluxes under monsoonal climate conditions
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30. **Baskyr, I., Weiner, B., Riedel, G., Poerschmann, J., Kopinke, F.-D.** (2014):
Wet oxidation of char–water-slurries from hydrothermal carbonization of paper and brewer's spent grains
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31. Bastida, F., **Jehmlich, N., Ondoño, S., von Bergen, M., García, C., Moreno, J.L.** (2014):
Characterization of the microbial community in biological soil crusts dominated by *Fulgensia desertorum* (Tomin) Poelt and *Squamarina cartilaginea* (With.) P. James and in the underlying soil
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35. **Beck, S.**, Borie, M., Chilvers, J., **Esguerra, A.**, **Heubach, K.**, Hulme, M., Lidskog, R., Lövbrand, E., **Marquard, E.**, **Miller, C.**, Nadim, T., **Neßhöver, C.**, **Settele, J.**, Turnhout, E., Vasileiadou, E., **Görg, C.** (2014):
Towards a reflexive turn in the governance of global environmental expertise. The cases of the IPCC and the IPBES
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36. **Beckmann, M.**, Bruelheide, H., Erfmeier, A. (2014):
Local performance of six clonal alien species differs between native and invasive regions in Germany and New Zealand
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37. **Beckmann, M.**, **Václavík, T.**, **Manceur, A.M.**, Šprtová, L., von Wehrden, H., Welk, E., **Cord, A.F.** (2014):
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On *Eulimnogammarus messerschmidtii*, sp. n. (Amphipoda: Gammaridea) from Lake Baikal, Siberia, with redescription of *E. cyanoides* (Sowinsky) and remarks on taxonomy of the genus *Eulimnogammarus*
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39. Bernt, M., **Haase, A.**, **Großmann, K.**, Cocks, M., Couch, C., Cortese, C., Krzysztofik, R. (2014):
How does(n't) urban shrinkage get onto the agenda? Experiences from Leipzig, Liverpool, Genoa and Bytom
Int. J. Urban Reg. Res. **38** (5), 1749 - 1766
40. **Bienau, M.J.**, Hattermann, D., Kröncke, M., Kretz, L., Otte, A., Eiserhardt, W.L., Milbau, A., Graae, B.J., **Durka, W.**, Eckstein, R.L. (2014):
Snow cover consistently affects growth and reproduction of *Empetrum hermaphroditum* across latitudinal and local climatic gradients
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41. **Bilke, L., Fischer, T., Helbig, C., Krawczyk, C., Nagel, T., Naumov, D., Paulick, S., Rink, K., Sachse, A., Schelenz, S., Walther, M., Watanabe, N., Zehner, B., Ziesch, J., Kolditz, O.** (2014):
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Prediction of phospholipid–water partition coefficients of ionic organic chemicals using the mechanistic model COSMOmic
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A unified classification of alien species based on the magnitude of their environmental impacts
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44. Bloem, E., Hermon, K.M., **de Rooij, G.H.**, Stagnitti, F. (2014):
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45. **Bocaniov, S.A., Smith, R.E.H., Spillman, C.M., Hipsey, M.R., Leon, L.F.** (2014):
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46. **Bocaniov, S.A., Ullmann, C., Rinke, K., Lamb, K.G., Boehrer, B.** (2014):
Internal waves and mixing in a stratified reservoir: insights from three-dimensional modeling
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47. Bocedi, G., Palmer, S.C.F., **Pe'er, G., Heikkinen, R.K., Matsinos, Y.G., Watts, K., Travis, J.M.J.** (2014):
RangeShifter: a platform for modeling spatial eco-evolutionary dynamics and species' responses to environmental changes
Methods Ecol. Evol. **5** (4), 388 - 396
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Chemocline erosion and its conservation by freshwater introduction to meromictic salt lakes
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Reduced climate sensitivity of carbon, oxygen and hydrogen stable isotope ratios in tree-ring cellulose of silver fir (*Abies alba* Mill.) influenced by background SO₂ in Franconia (Germany, Central Europe)
Environ. Pollut. **185** , 281 - 294
50. **Böhme, S., Stärk, H.-J.,** Meißner, T., Springer, A., **Reemtsma, T., Kühnel, D., Busch, W.** (2014):
Quantification of Al₂O₃ nanoparticles in human cell lines applying inductively coupled plasma mass spectrometry (neb-ICP-MS, LA-ICP-MS) and flow cytometry-based methods
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51. **Bohn, F., Frank, K., Huth, A.** (2014):
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Ecol. Model. **278** , 9 - 17
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iForest **7** , 423 - 433
53. Bonumá, N.B., Rossi, C.G., Arnold, J.G., Reichert, J.M., Minella, J.P., Allen, P.M., **Volk, M.** (2014):
Simulating landscape sediment transport capacity by using a modified SWAT model
J. Environ. Qual. **43** (1), 55 - 66
54. **Boog, J., Nivala, J., Aubron, T.,** Wallace, S., **van Afferden, M., Müller, R.A.** (2014):
Hydraulic characterization and optimization of total nitrogen removal in an aerated vertical subsurface flow treatment wetland
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55. Borie, M., Mathevet, R., Letourneau, A., **Ring, I.,** Thompson, J.D., Marty, P. (2014):
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56. **Borsdorf, H.** (2014):
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58. **Bräuer, K., Kämpf, H., Strauch, G.** (2014):
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60. Brigode, P., Bernardara, P., Paquet, E., Gailhard, J., Garavaglia, F., **Merz, R.**, Mićović, Z., Lawrence, D., Ribstein, P. (2014):
Sensitivity analysis of SCHADDEX extreme flood estimations to observed hydrometeorological variability
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Heterocyclic aromatic hydrocarbons show estrogenic activity upon metabolization in a recombinant transactivation assay
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Analysis of spectral vegetation signal characteristics as a function of soil moisture conditions using hyperspectral remote sensing
J. Indian Soc. Remote Sens. **42** (2), 311 - 324
63. **Brown, T.N.** (2014):
Predicting hexadecane–air equilibrium partition coefficients (*L*) using a group contribution approach constructed from high quality data
SAR QSAR Environ. Res. **25** (1), 51 - 71
64. **Brox, S., Ritter, A.P., Küster, E., Reemtsma, T.** (2014):
A quantitative HPLC–MS/MS method for studying internal concentrations and toxicokinetics of 34 polar analytes in zebrafish (*Danio rerio*) embryos
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65. **Brox, S., Ritter, A.P., Küster, E., Reemtsma, T.** (2014):
Influence of the perivitelline space on the quantification of internal concentrations of chemicals in eggs of zebrafish embryos (*Danio rerio*)
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66. Bruelheide, H., Nadrowski, K., Assmann, T., Bauhus, J., Both, S., **Buscot, F.**, Chen, X.-Y., Ding, B.Y., **Durka, W.**, Erfmeier, A., **Gutknecht, J.L.M.**, Guo, D.L., Guo, L.-D., Härdtle, W., He, J.-S., Klein, A.-M., Kühn, P., Liang, Y., Liu, X.J., **Michalski, S.**, Niklaus, P.A., Pei, K.Q., Scherer-Lorenzen, M., Scholten, T., Schuldt, A., Seidler, G., Trogisch, S., von Oheimb, G., Welk, E., Wirth, C., **Wubet, T.**, Yang, X.F., Yu, M.J., Zhang, S.R., Zhou, H.Z., Fischer, M., Ma, K.P., Schmid, B. (2014):
Designing forest biodiversity experiments: general considerations illustrated by a new large experiment in subtropical China
Methods Ecol. Evol. **5** (1), 74 - 89
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A new semi-quantitative tracer approach for the validation of a two-dimensional sediment transport model
J. Gt. Lakes Res. **40** (Suppl. 3), 8 - 18
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Detection of active oxalate-carbonate pathway ecosystems in the Amazon Basin: Global implications of a natural potential C sink
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71. **Campos, B., Altenburger, R.**, Gómez, C., Lacorte, S., Piña, B., Barata, C., **Luckenbach, T.** (2014):
First evidence for toxic defense based on the multixenobiotic resistance (MXR) mechanism in *Daphnia magna*
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Removal of selected organic micropollutants in planted and unplanted pilot-scale horizontal flow constructed wetlands under conditions of high organic load
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73. Cassiani, G., Binley, A., Kemna, A., Wehrer, M., Flores Orozco, A., Deiana, R., Boaga, J., Rossi, M., **Dietrich, P., Werban, U., Zschornack, L.,** Godio, A., JafarGandomi, A., Deidda, G.P. (2014):
Noninvasive characterization of the Trecate (Italy) crude-oil contaminated site: links between contamination and geophysical signals
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74. Castillo, O.S., Zaragoza, E.M., Alvarado, C.J., Barrera, M.G., **Dasgupta-Schubert, N.** (2014):
Using the conservative nature of fresh leaf surface density to measure foliar area
International Agrophysics **28** (4), 413 - 421
75. Catalán, N., von Schiller, D., Marcé, R., **Koschorreck, M.,** Gomez-Gener, L., Obrador, B. (2014):
Carbon dioxide efflux during the flooding phase of temporary ponds. Flujos de dióxido de carbono durante la fase de inundación de estanques temporales
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76. Cavalcanti, M.M., Borges, W.R., **Stollberg, R.,** Rocha, M.P., da Cunha, L.S., Seimetz, E.X., Nogueira, P.V., de Olivera e Sousa, F.R.F.R. (2014):
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Acute toxicity of the cationic surfactant C12-benzalkonium in different bioassays: How test design affects bioavailability and effect concentrations
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Chemosphere **117** , 178 - 184
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Mathematical aspects of meshless methods
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Permoserstraße 15
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Telefon 0341-235-0

Bearbeitung

Erika Schnauková

Michael Garbe

Heike Reichelt