

Veröffentlichungen 2010

des Helmholtz-Zentrums für Umweltforschung GmbH – UFZ

Forschungsbereich Erde und Umwelt

Vorbemerkung

Das vorliegende Veröffentlichungsverzeichnis umfasst die im Jahre 2010 erschienenen Publikationen des Forschungsbereichs Erde und Umwelt, die von Mitarbeitern der Helmholtz- Zentrum für Umweltforschung GmbH - UFZ verfasst, mitverfasst oder herausgegeben wurden. Außerdem sind hier die Nachmeldungen von 2009 aufgeführt.

Redaktionsschluss für diese Publikationsliste war der 28. Juni 2011.

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.

Bei den Publikationen aus Zeitschriften mit Impact Factor (IF) werden diese mit aufgeführt. Der IF wird berechnet durch Division der Anzahl der Zitate von Aufsätzen der Zeitschrift durch die Gesamtzahl an Aufsätzen der Zeitschrift in den letzten zwei Jahren. Um einen Impact Factor zu erhalten muss die Zeitschrift im Scientific Citation Index gelistet sein.

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Zeitschriften mit Impact Factor

1. **Ackermann, J., Vetterlein, D.,** Kaiser, K., **Mattusch, J.,** Jahn, R. (2010):
The bioavailability of arsenic in floodplain soils: a simulation of water saturation
Eur.J.Soil Sci. **61** (1), 84 - 96
Impact Factor: 2.131
2. Alexandrov, G.A., Ames, D., Bellocchi, C., Bruen, M., Crout, N., Erechtkhoukova, M., **Hildebrandt, A.,** Hoffmann, F., **Jackisch, C.,** Khaite, P., Mannina, G., Matsunaga, T., Purucker, S.T., Rivington, M., **Samaniego, L.** (2010):
Technical assessment and evaluation of environmental models and software: letter to the editor
Environ.Modell.Softw. **26** (3), 328 - 336
Impact Factor: 3.085
3. Allan, I.J., Booij, K., **Paschke, A., Vrana, B.,** Mills, G.A., Greenwood, R. (2010):
Short- term exposure testing of six different passive samplers for monitoring hydrophobic contaminants in water
J.Environ.Monit. **12** (3), 696 - 703
Impact Factor: 2.225
4. **Altenburger, R.,** Berns, A.E., **Bittens, M., Brack, W.,** Burauel, P., **Centler, F., Daus, B., Goss, K.- U., Harms, H., Kopinke, F.- D., Kühnel, D., Liess, M., Mackenzie, K., Miltner, A., Thullner, M., Wennrich, R., Wick, L.Y.** (2010):
Chemicals in the environment (CITE). Report of the First Annual Conference of the Helmholtz research topic CITE
UWSF- Z.Umweltchem.Ökotox. **22** (4), 502 - 506
Impact Factor: -
5. **Altenburger, R.,** Krüger, A., Eisenträger, A. (2010):
Proposing a pH stabilised nutrient medium for algal growth bioassays
Chemosphere **78** (7), 864 - 870
Impact Factor: 3.253
6. Altmöös, M., **Henle, K.** (2010):
Relevance of multiple spatial scales in habitat models: a case study with amphibians and grasshoppers
Acta Oecol. - Int. J. Ecol. **36** (6), 548 - 560
Impact Factor: 1.609

7. **Anadón, J.D.**, Giménez, A., Ballestar, R. (2010):
Linking local ecological knowledge and habitat modelling to predict absolute species abundance on large scales
Biodivers. Conserv. **19** (5), 1443 - 1454
Impact Factor: 2.066
8. **Anadón, J.D.**, Sánchez- Zapata, J.A., Carrete, M., Donázar, J.A., Hiraldo, F. (2010):
Large- scale human effects on an arid African raptor community
Animal Conservation **13** (5), 495 - 504
Impact Factor: 2.358
9. **Anton, C.**, Young, J., Harrison, P.A., **Musche, M.**, Bela, G., Feld, C.K., Harrington, R., Haslett, J.R., Pataki, G., Rounsevell, M.D.A., Skourtos, M., Sousa, J.P., Sykes, M.T., Tinch, R., **Vandewalle, M.**, Watt, A., **Settele, J.** (2010):
Research needs for incorporating the ecosystem service approach into EU biodiversity conservation policy
Biodivers. Conserv. **19** (10), 2979 - 2994
Impact Factor: 2.066
10. Arnold, J.G., Allen, P.M., **Volk, M.**, Williams, J.R., Bosch, D.D. (2010):
Assessment of different representations of spatial variability on SWAT model performance
Transactions of the ASABE **53** (5), 1433 - 1443
Impact Factor: 0.889
11. Arp, H.P.H., **Droge, S.T.J.**, **Endo, S.**, Giger, W., **Goss, K.- U.**, Hawthorne, S.B., Mabury, S.A., Mayer, P., McLachlan, M.S., Pankow, J.F., Schwarzenbach, R.P., Wania, F., Xing, B. (2010):
More of EPA's SPARC online calculator- the need for high- quality predictions of chemical properties
Environ. Sci. Technol. **44** (12), 4400 - 4401
Impact Factor: 4.63
12. Arp, H.P.H., **Droge, S.T.J.**, **Endo, S.**, **Goss, K.- U.**, Giger, W., Hawthorne, S.B., Mabury, S.A., Mayer, P., McLachlan, M.S., Pankow, J.F., Schwarzenbach, R.P., Wania, F., Xing, B. (2010):
Response to comment on "More of EPA's SPARC online calculator- the need for high quality predictions of chemical properties"
Environ. Sci. Technol. **44** (20), 7746 - 7747
Impact Factor: 4.63
13. Arp, H.P.H., **Endo, S.**, **Goss, K.- U.** (2010):
Comment on "Assessment of PDMS- Water Partition Coefficients: Implications for Passive Environmental Sampling of Hydrophobic Compounds"
Environ. Sci. Technol. **44** (22), 8787 - 8788
Impact Factor: 4.63

14. Arroyo- Abad, U., **Mattusch, J., Mothes, S., Möder, M., Wennrich, R., Elizalde-González, M.P.**, Matysik, F.- M. (2010):
Detection of arsenic- containing hydrocarbons in canned cod liver tissue
Talanta **82** (1), 38 - 43
Impact Factor: 3.29
15. Aust, M.- O., Thiele- Bruhn, S., **Seeger, J.**, Godlinski, F., **Meissner, R.**,
Leinweber, P. (2010):
Sulfonamides leach from sandy loam soils under common agricultural practice
Water Air Soil Poll. **211** (1-4), 143 - 156
Impact Factor: 1.676
16. Austin, D., **Nivala, J.** (2009):
Energy requirements for nitrification and biological nitrogen removal in
engineered wetlands
Ecol.Eng. **35** (2), 184 - 192
Impact Factor: 1.836
17. Azócar, L., Ciudad, G., **Heipieper, H.- J.**, Muñoz, R., Navia, R. (2010):
Improving fatty acid methyl ester production yield in a lipase- catalyzed process
using waste frying oils as feedstock
Journal of Bioscience and Bioengineering **109** (6), 609 - 614
Impact Factor: 1.749
18. Azócar, L., Ciudad, G., **Heipieper, H.- J.**, Navia, R. (2010):
Biotechnological processes for biodiesel production using alternative oils
Appl.Microbiol.Biotechnol. **88** (3), 621 - 636
Impact Factor: 2.896
19. Aßmann, C., Nechwatal, J., **Rinke, K.**, von Elert, E. (2010):
The impact of axenic strains of fungi and oomycetes on the preference of
Gammarus roeselii for leaf litter
Fundam.Appl.Limnol. **176** (3), 235 - 248
Impact Factor: 0.989
20. **Balin, D., Lee, H., Rode, M.** (2010):
Is point uncertain rainfall likely to have a great impact on distributed complex
hydrological modeling?
Water Resourc.Res. **46** , W11520
Impact Factor: 2.447
21. **Bandow, N., Altenburger, R., Brack, W.** (2010):
Application of nd- SPME to determine freely dissolved concentrations in the
presence of green algae and algae- water partition coefficients
Chemosphere **79** (11), 1070 - 1076
Impact Factor: 3.253

22. Barbosa, O., Marquet, P.A., Bacigalupe, L.D., Christie, D.A., Del-Val, E., **Gutiérrez, A.G.**, Jones, C.G., Weathers, K.C., Armesto, J.J. (2010): Interactions among patch area, forest structure and water fluxes in a fog-inundated forest ecosystem in semi- arid Chile
Funct.Ecol. **24** (4), 909 - 917
Impact Factor: 4.546
23. Bartumeus, F., Giuggioli, L., **Louzao, M.**, Bretagnolle, V., Oro, D., Levin, S.A. (2010): Fishery discards impact on seabird movement patterns at regional scales
Current Biology **20** (3), 215 - 222
Impact Factor: 10.992
24. **Bastida, F., Rosell, M., Franchini, A.G., Seifert, J., Finsterbusch, S., Jehmlich, N., Jechalke, S., von Bergen, M., Richnow, H.H.** (2010): Elucidating MTBE degradation in a mixed consortium using a multidisciplinary approach
FEMS Microbiol.Ecol. **73** (2), 370 - 384
Impact Factor: 3.598
25. **Bataineh, M., Lübcke- von Varel, U., Hayen, H., Brack, W.** (2010): HPLC/ APCI- FTICR- MS as a tool for identification of partial polar mutagenic compounds in effect- directed analysis
J.Am.Soc.Mass Spectrometry **21** (6), 1016 - 1027
Impact Factor: 3.391
26. **Beck, S.** (2010):
Book review: "Joseph F.C. DiMento and P. Doughman, Editors, Climate Change: What it Means for Us, Our Children, and Our Grandchildren, The MIT Press (2007) 232 pp., \$19.95. "
Futures **42** (1), 89 - 90
Impact Factor: 0.669
27. **Beck, S.** (2010):
Book review: "M. Hulme, Why we disagree about climate change: Understanding controversy, inaction and opportunity, Cambridge University Press, London (2009), 432pp."
Futures **42** (6), 648 - 650
Impact Factor: 0.669
28. **Beketov, M., Yurchenko, Y.A., Belevich, O.E., Liess, M.** (2010): What environmental factors are important determinants of structure, species richness, and abundance of mosquito assemblages?
Journal of Medical Entomology **47** (2), 129 - 239
Impact Factor: 1.921

29. **Berghöfer, A.** (2010):
Protected areas: the weakness of calls for strict protection
Gaia- Ecological Perspectives for Science and Society **19** (1), 9 - 12
Impact Factor: 0.735
30. **Berghöfer, U., Rozzi, R., Jax, K.** (2010):
Many eyes on nature: diverse perspectives in the Cape Horn Biosphere Reserve
and their relevance for conservation
Ecol. Soc. **15** (1), Art. 18
Impact Factor: 1.735
31. Bergmann, J., **Pompe, S.**, Ohlemüller, R., Freiberg, M., **Klotz, S., Kühn, I.**
(2010):
The Iberian Peninsula as a potential source for the plant species pool in Germany
under projected climate change
Plant Ecol. **207** (2), 191 - 201
Impact Factor: 2.223
32. **Bernt, M., Rink, D.** (2010):
'Not relevant to the system': the crisis in the backyards
International Journal of Urban and Regional **34** (3), 678 - 385
Impact Factor: 1.43
33. Bhattacharyya, S., **Singh, A.K.** (2009):
Augmentation of heat transfer from a solid cylinder wrapped with a porous layer
Int.J.Heat Mass Transfer **52** (7-8), 1991 - 2001
Impact Factor: -
34. Bhattacharyya, S., **Singh, A.K.** (2010):
Vortex shedding and heat transfer dependence on effective Reynolds number for
mixed convection around a cylinder in cross flow
Int.J.Heat Mass Transfer **53** (15-16), 3202 - 3212
Impact Factor: 1.947
35. Bhattacharyya, S., **Singh, A.K.** (2010):
Wake flow and heat transfer due to a spherical viscous droplet
Numerical Heat Transfer Part A- Applications **57** (2), 138 - 158
Impact Factor: 1.117
36. Bierman, S.M., Butler, A., Marion, G., **Kühn, I.** (2010):
Bayesian image restoration models for combining expert knowledge on recording
activity with species distribution data
Ecography **33** (3), 451 - 460
Impact Factor: 4.385

37. Binimelis, R., **Spangenberg, J.H.**, Martinez- Alier, J. (2009):
Special Section: The DPSIR framework for Biodiversity Assessment
Ecol. Econ. **69** (1), 9 - 75
Impact Factor: 2.422

38. Birkhofer, K., Scheu, S., **Wiegand, T.** (2010):
Assessing spatiotemporal predator- prey patterns in heterogeneous habitats
Basic Appl.Ecol. **11** (6), 486 - 494
Impact Factor: 2.422

39. **Blaschke, U., Paschke, A., Rensch, I., Schüürmann, G.** (2010):
Acute and chronic toxicity toward the bacteria *Vibrio fischeri* of organic narcotics and epoxides: structural alerts for epoxide excess toxicity
Chem.Res.Toxicol. **23** (12), 1936 - 1946
Impact Factor: 3.74

40. Blaszkowski, J.A., **Kovacs, G.M.**, Balazs, T., Orłowska, E., Sadravi, M., **Wubet, T., Buscot, F.** (2010):
Glomus africanum and G. iranicum, two new species of arbuscular mycorrhizal fungi (Glomeromycota)
Mycologia **102** (6), 1450 - 1462
Impact Factor: 1.587

41. Blaszkowski, J.A., **Wubet, T.**, Harikumar, V.S., Ryszka, P., **Buscot, F.** (2010):
Glomus indicum, a new arbuscular mycorrhizal fungus
Botany **88** (2), 132 - 143
Impact Factor: 0.904

42. **Bleicher, A., Groß, M.** (2010):
Sustainability assessment and the revitalization of contaminated sites:
operationalizing sustainable development for local problems
Int.J.Sustain.Dev.World Ecol. **17** (1), 57 - 66
Impact Factor: 0.525

43. Bloem, E., Hogervorst, F.A.N., **de Rooij, G.H.**, Stagnitti, F. (2010):
Variable- suction multicompartement samplers to measure spatiotemporal unsaturated water and solute fluxes
Vadose Zone J. **9** (1), 148 - 159
Impact Factor: 1.991

44. **Boehrer, B., Herzsprung, P., Schultze, M.**, Millero, F.J. (2010):
Calculating density of water in geochemical lake stratification models
Limnology and Oceanography: Methods **8** (11), 567 - 574
Impact Factor: 1.737

45. **Boehrer, B., Kastner, S., Ollesch, G.** (2010):
High accuracy measurements of water storage change in Mining Lake 111,
Germany
Limnologica **40** (2), 156 - 160
Impact Factor: 1.556
46. **Boettger, T., Novenko, E.Y., Velichko, A.A., Borisova, O.K., Kremenetski, K.V., Knetsch, S., Junge, F.W.** (2009):
Instability of climate and vegetation dynamics in Central and Eastern Europe
during the final stage of the Last Interglacial (Eemian, Mikulino) and Early
Glaciation
Quat.Int. **207** (1-2), 137 - 144
Impact Factor: 1.482
47. **Bombach, P., Chatzinotas, A., Neu, T.R., Kästner, M., Lueders, T., Vogt, C.**
(2010):
Enrichment and characterization of a sulfate- reducing toluene- degrading
microbial consortium by combining in situ microcosms and stable isotope probing
techniques
FEMS Microbiol.Ecol. **71** (2), 237 - 246
Impact Factor: 3.598
48. **Bombach, P., Richnow, H.H., Kästner, M., Fischer, A.** (2010):
Current approaches for the assessment of in situ biodegradation
Appl.Microbiol.Biotechnol. **86** (3), 839 - 852
Impact Factor: 2.896
49. Bosch, D.D., Arnold, J.G., **Volk, M., Allen, P.M.** (2010):
Simulation of a low- gradient coastal plain watershed using the SWAT landscape
model
Transactions o the ASABE **53** (5), 1445 - 1465
Impact Factor: 0.889
50. Bouzarovski, S., **Haase, A., Steinführer, A., Kabisch, S., Ogden, P.** (2010):
Household structure, migration trends, and residential preferences in inner- city
León, Spain: unpacking the demographics of reurbanization
Urban Geography **31** (2), 211 - 235
Impact Factor: 1.127
51. **Brack, W., Bandow, N., Schwab, K., Schulze, T., Streck, G.** (2009):
Identifizierung toxischer Verbindungen in Sedimenten: Ansätze zur Integration
von Wirkung und Bioverfügbarkeit
UWSF- Z.Umweltchem.Ökotox. **21** (3), 240 - 244
Impact Factor: -

52. Brills, J., Quevauviller, P., Slob, A., Blind, M., Davy, T., Carere, M., Amorsi, N., **Brack, W.**, Borchers, U., Thompson, C., Villessot, D. (2010):
The European Water Framework Directive beyond 2010: let actions speak louder than words
J. Environ. Monit. **12** (12), 2204 - 2206
Impact Factor: 2.225
53. Brittain, C.A., Vighi, M., Bommarco, R., **Settele, J.**, Potts, S.G. (2010):
Impacts of a pesticide on pollinator species richness at different spatial scales
Basic Appl. Ecol. **11** (2), 106 - 115
Impact Factor: 2.422
54. Bruggeman, D.J., **Wiegand, T.**, Fernández, N. (2010):
The relative effects of habitat loss and fragmentation on population genetic variation in the red- cockaded woodpecker (*Picooides borealis*)
Mol. Ecol. **19** (17), 3679 - 3691
Impact Factor: 5.96
55. **Bräuniger, C., Knapp, S., Kühn, I., Klotz, S.** (2010):
Testing taxonomic and landscape surrogates for biodiversity in an urban setting
Landscape Urban Plan. **97** (4), 283 - 295
Impact Factor: 2.17
56. **Brüggemann, L., Morgenstern, P., Wennrich, R.** (2010):
Comparison of international standards concerning the capability of detection for analytical methods
Accredit. Qual. Assur. **15** (2), 99 - 104
Impact Factor: 0.76
57. **Buanuam, J., Wennrich, R.** (2010):
Dynamic flow- through sequential extraction for assessment of fractional transformation and inter- element associations of arsenic in stabilized soil and sludge
Journal of Hazardous Materials **184** (1-3), 849 - 854
Impact Factor: 4.144
58. Buchholz, F., Wolf, A., Lerchner, J., Mertens, F, **Harms, H., Maskow, T.** (2010):
Chip calorimetry for fast and reliable evaluation of bactericidal and bacteriostatic treatments of biofilms
Antimicrobial Agents and Chemotherapy **54** (1), 312 - 319
Impact Factor: 4.802

59. Burns, K.A., Brinkmann, D.L., Brunskill, G.J., Logan, G.A., Volk, H., **Wasmund, K.**, Zagorski, I. (2010):
Fluxes and fate of petroleum hydrocarbons in the Timor Sea ecosystem with special reference to active natural hydrocarbon seepage
Mar.Chem. **118** (3-4), 140 - 155
Impact Factor: 2.726
60. **Busch, W., Kühnel, D., Schirmer, K., Scholz, S.** (2010):
Tungsten carbide cobalt nanoparticles exert hypoxia- like effects on the gene expression level in human keratinocytes
Genomics **11:65** ,
Impact Factor: 3.327
61. Butler, J.J., **Dietrich, P.**, Wittig, V., Christy, T. (2010):
Author's reply to: "Characterizing hydraulic conductivity with the direct- push permeameter. Butler,J.J.; Dietrich,P.; Wittig,V.; Christy,T. *Ground Water* 2007, 45(4), 409-419"
Ground Water **48** (6), 793 - 795
Impact Factor: 1.831
62. **Böhme, A., Thaens, D., Schramm, F., Paschke, A., Schüürmann, G.** (2010):
Thiol reactivity and its impact on the ciliate toxicity of α,β - unsaturated aldehydes, ketones, and esters
Chem.Res.Toxicol. **23** (12), 1905 - 1912
Impact Factor: 3.74
63. **Böhnhardt, A., Kühne, R., Ebert, R.- U., Schüürmann, G.** (2010):
Predicting rate constants of OH- mediated indirect photolysis - advances for oxygenated compounds through a molecular orbital HF/6-31G** approach
Theoretical Chemistry Accounts **127** (4), 355 - 367
Impact Factor: 2.584
64. Böttcher, M.E., Voss, M., Schulz- Bull, D., Schneider, R., Leipe, T., **Knöller, K.** (2010):
Environmental changes in the Pearl River Estuary (China) as reflected by light stable isotopes and organic contaminants
J.Marine Syst. **82** (Suppl. 1), S43 - S53
Impact Factor: 2.238
65. **Calabrese, J.M.**, Vazquez, F., López, C., Miguel, M.S., **Grimm, V.** (2010):
The independent and interactive effects of tree- tree establishment competition and fire on savanna structure and dynamics
Am.Nat. **175** (3), E44 - E65
Impact Factor: 4.796

66. **Carl, G., Kühn, I.** (2010):
A wavelet- based extension of generalized linear models to remove the effect of spatial autocorrelation
Geographical Analysis **42** (3), 323 - 337
Impact Factor: 1.641
67. **Carminati, A.,** Moradi, A.B., **Vetterlein, D.,** Vontobel, P., Lehmann, E., **Weller, U., Vogel, H.J., Oswald, S.E.** (2010):
Dynamics of soil water content in the rhizosphere
Plant Soil **332** (1-2), 163 - 176
Impact Factor: 2.517
68. Carmona, M.R., Aravena, J.C., Bustamante- Sánchez, M.A., Celis- Diez, J.L., Charrie, A., Díaz, I.A., Díaz- Forestier, J., Díaz, M.F., Gaxiola, A., **Gutiérrez, A.G.**, Hernandez- Pellicer, C., Ippi, S., Jaña- Prado, R., Jara- Arancico, P., Jimenez, J., Manushevich, D., Necochea, P., Nuñez- Avila, M., Papic, C., Pérez, C., Pérez, F., Reid, S., Rojas, L., Salgado, B., Smith- Ramírez, C., Troncoso, A., Vásquez, R.A., Willson, M.F., Rozzi, R., Armesto, J.J. (2010):
Estación Biológica Senda Darwin: Investigación ecológica de largo plazo en la interfase ciencia- sociedad / Senda Darwin Biological Station: Long- term ecological research at the interface between science and society
Rev.Chil.Hist.Nat. **83** , 113 - 142
Impact Factor: 0.723
69. Carroll, M.J., **Singer, A.,** Smith, G.C., Cowan, D.P., Massei, G. (2010):
The use of immunocontraception to improve rabies eradication in urban dog populations
Wildlife Research **37** (8), 676 - 678
Impact Factor: 1.222
70. **Centler, F.,** Kaleta, C., Speroni di Fenizio, P., Dittrich, P. (2010):
A parallel algorithm to compute chemical organizations in biological networks
Bioinformatics **26** (14), 1788 - 1789
Impact Factor: 4.926
71. **Centler, F., Shao, H., De Biase, C.,** Park, C.- H., Regnier, P., **Kolditz, O., Thullner, M.** (2010):
GeoSysBRNS- A flexible multidimensional reactive transport model for simulating biogeochemical subsurface processes
Computers & Geosciences **36** (3), 397 - 405
Impact Factor: 1.142
72. **Cichocka, D., Nikolausz, M.,** Haest, P.J., **Nijenhuis, I.** (2010):
Tetrachloroethene conversion to ethene by a Dehalococcoides- containing enrichment culture from Bitterfeld
FEMS Microbiol.Ecol. **72** (2), 297 - 310
Impact Factor: 3.598

73. **Cipriotti, P.A.**, Aguiar, M.R. (2010):
Resource partitioning and interactions enable coexistence in a grass- shrub
steppe
J.Arid Environ. **74** (10), 1111 - 1120
Impact Factor: 1.426
74. **Cipriotti, P.A.**, Rauber, R.B., Collantes, M.B., Braun, K., Escartín, C. (2010):
Hieracium pilosella invasion in the Tierra del Fuego steppe, Southern Patagonia
Biol.Invasions **12** (8), 2523 - 2535
Impact Factor: 3.074
75. **Das, S., Priess, J.A.**, Schweizer, C. (2010):
Biofuel options for India - perspectives on land availability, land management and
land- use change
Journal of Biobased Materials and Bioenergy **4** (3), 243 - 255
Impact Factor: 1.402
76. Dauber, J., Biesmeijer, J.C., Gabriel, D., Kunin, W.E., Lamborn, E., Meyer, B.,
Nielsen, A., Potts, S.G., Söber, V., **Settele, J.**, Steffan- Dewenter, I., Stout, J.C.,
Teder, T., Tscheulin, T., Vivareli, D., Petanidou, T. (2010):
Effects of patch size and density on flower visitation and seed set of wild plants: a
pan- European approach
J.Ecol. **98** (1), 188 - 196
Impact Factor: 4.69
77. **Daus, B., Hempel, M., Wennrich, R., Weiß, H.** (2010):
Concentrations and speciation of arsenic in groundwater polluted by warfare
agents
Environ.Pollut. **158** (11), 3439 - 3444
Impact Factor: 3.426
78. **Daus, B., Weiß, H., Altenburger, R.** (2010):
Uptake and toxicity of hexafluoroarsenate in aquatic organisms
Chemosphere **78** (3), 307 - 312
Impact Factor: 3.253
79. **de Rooij, G.H.** (2010):
Comments on "Improving the numerical simulation of soil moisture- based
Richards equation for land models with a deep or shallow water table"
Journal of Hydrometeorology **11** (4), 1044 - 1050
Impact Factor: 2.739

80. Deepthike, H.U., Tecon, R., van Kooten, G.K., van der Meer, J.R., **Harms, H., Wells, M.**, Short, J. (2010):
Response to comment on "Unlike PAHs from *Exxon Valdez* Crude Oil, PAHs from Gulf of Alaska Coals are not Readily Bioavailable"
Environ. Sci. Technol. **44** (6), 2212 - 2213
Impact Factor: 4.63
81. Dehnert, J., Leven, C., **Trabitzsch, R., Weiß, H.** (2010):
Ermittlung hochauflösender Nitratkonzentrationsprofile im Grundwasser mithilfe von Direct- Push- Sondierungen
Grundwasser **15** (4), 221 - 230
Impact Factor: 0.273
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Das UFZ bringt seine systemanalytische Kompetenz zu Energie- und Landnutzungssystemen in zwei Programmanteile ein. Im Programm Terrestrische Umwelt des FB Erde und Umwelt liegt der Fokus dabei auf Bioenergie als Teil der Landnutzung, im Programm Technologie, Innovation und Gesellschaft (TIG) des FB Energie steht das Thema Bioenergie im Gesamtenergiesystem im Mittelpunkt. Diese Arbeiten nehmen dabei eine Brückenfunktion zwischen den Forschungsbereichen ein mit dem Ziel einer verbesserten Gesamtsystembewertung. Die daraus entstandenen interdisziplinären ISI- Publikationen wurden den o.g. Schwerpunkten entsprechend den Programmanteilen zugeordnet, sind aber inhaltlich eng mit den in den jeweils anderen Programmen gemeldeten ISI- Publikationen verbunden. Mit Bezug auf das Programm Terrestrische Umwelt handelt es sich um 6 ISI- Publikationen im Bereich der Bioenergieforschung, die im Programm TIG gemeldet wurden und 2 im Programm Erneuerbare Energien.

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