
Publications (11.01.2012)

In peer-reviewed journals

1. Kiss, A., **Fries, E.** (2012) Seasonal source influence on river mass flows of benzotriazoles. *Journal of Environmental Monitoring*, DOI: 10.1039/C2EM10826G.
 2. Galgani, F., Ellerbrake, K., **Fries, E.**, Goreux, C. (2011) Marine pollution: let us not forget beach sand. *Environmental Sciences Europe*, 23. DOI:10.1186/2190-4715-23-40.
 3. Seeland, A., Oetken, M., Kiss, A., **Fries, E.**, Oehlmann, J. (2011) Acute and chronic toxicity of benzotriazoles to aquatic organisms. *Environmental Science and Pollution Research*. DOI: DOI: 10.1007/s11356-011-0705-z.
 4. **Fries, E.**, Zarfl, C. (2011) Sorption of polycyclic aromatic hydrocarbons (PAHs) to low and high density polyethylene (PE). *Environmental Science and Pollution Research*. DOI: 10.1007/s11356-011-0655-5
 5. **Fries, E.**, Mihajlović, I. (2011) Pollution of soils with organophosphorus flame retardants and plasticizers. *Journal of Environmental Monitoring*, 13, 2692-2694.
 6. **Fries, E.**, Klasmeier, J., Gocht, T. (2011) Occurrence and distribution of benzothiazole in the Schwarzbach watershed (Germany). *Journal of Environmental Monitoring*, 13, 2838-2843.
 7. Zarfl, C., Fleet, D., **Fries, E.**, Galgani, F., Gerdts, G., Hanke, G., Matthies, M. (2011) Microplastics in oceans. *Marine Pollution Bulletin*, 62, 1589–1591.
 8. Starokozhev, E., Sieg, K., **Fries, E.**, Püttmann, W. (2011) Investigation of partitioning mechanisms for volatile organic compounds in a multiphase system. *Chemosphere*, 82, 1482-1488
 9. Mihajlović, I., Vojinović Miloradov, M., **Fries, E.** (2011) Application of Twisselmann extraction, SPME and GC-MS to assess input sources for organophosphate esters into soil. *Environmental Science and Technology*, 45, 2264–2269.
 10. **Fries, E.** (2011) Determination of benzothiazole (BT) in untreated waste water using polar phase stir bar sorptive extraction (SBSE) and GC-MS. *Analytica Chimica Acta*, 689, 65-68.
 11. Zheng, C., Focks, A., Ellerbrake, K., Eggers, T., **Fries, E.** (2011) Sorption of ortho-phenylphenol to soils. *Clean – Soil, Air, Water*, 39, 116–120
 12. Kukučka, P. Lammel, G., Dvorská, A., Klánová, J., Möller, A., **Fries, E.** (2010) Contamination of Antarctic snow by polycyclic aromatic hydrocarbons dominated by combustion sources in the polar region. *Environmental Chemistry*, 7, 504–513.
 13. Kiss, A., **Fries, E.** (2009) Occurrence of Benzotriazoles in the Rivers Main, Hengstbach and Hegbach (Germany). *Environmental Science and Pollution Research*, Special Series: Chemical and Biological Environmental Monitoring, 16, 702-710.
 14. **Fries, E.**, Klasmeier, J. (2009) Analysis of potassium formate in airport storm water runoff by headspace solid-phase microextraction and gas chromatography-mass spectrometry. *Journal of Chromatography A*, 1216, 879–881.
 15. Starokozhev, E., **Fries, E.**, Cycura, A. and Püttmann, W. (2008): Distribution of VOCs between air and snow at the Jungfraujoch high alpine research station, Switzerland, during CLACE 5 (winter 2006). *Atmospheric Chemistry and Physics*, 9, 3197–3207.
 16. Winterhalter, R., Kippenberger, M., Williams, J., **Fries, E.**, Sieg, K., Moortgat, G.K. (2008), Concentrations of higher dicarboxylic acids (C5-C13) in fresh snow samples collected at the High Alpine Research Station Jungfraujoch during CLACE 5 and 6. *Atmospheric Chemistry and Physics*, 9, 2097-2112.
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17. **Fries, E.**, Sieg, K., Jaeschke W., Püttmann, W., Winterhalter, R., Williams, J., Moortgat, G. (2008): Occurrence of VOC in snow and ice in spring at Jungfrauoch (46.6°N, 8.0°E) in 2005 and 2006 during CLACE 4 and 5. Special Issue "Research at Jungfrauoch: Top of Science" in *Science of the Total Environment*, 391, 269-277.
 18. Sieg, K., **Fries, E.**, Püttmann, W. (2008): Analysis of BTEX and Aldehydes with solid phase dynamic extraction from melted snow water. *Journal of Chromatography A*, 1178, 178-186.
 19. **Fries, E.**, Haunold W., Starokozhev, E., Jaeschke, W., Subir K. Mitra, Borrmann, S. (2007) Laboratory studies on the uptake of aromatic hydrocarbons by ice crystals during vapour depositional crystal growth. *Atmospheric Environment*, 41, 6156-6166.
 20. Kohlmaier, G., Kohlmaier, L., **Fries, E.**, Jaeschke, W. (2008): Carbon stocks and Greenhouse gas balance of Harvested Wood Products: Focus on the Asia-Pacific Partnership countries vis-à-vis the European Union. *European Journal of Forest Research* 127 (2): 133-147.
 21. Kohlmaier, G., Kohlmaier, L., **Fries, E.**, Jaeschke, W. (2007) Application of the stock change and the production approach to Harvested Wood Products in the EU-15 countries: a comparative analysis. *European Journal of Forest Research* 126 (2): 209-223.
 22. **Fries, E.**, Haunold, W., Jaeschke, W., Hoog, I., Mitra, S.K., Borrmann, S. (2006) Uptake of gaseous aromatic hydrocarbons by non-growing ice crystals. *Atmospheric Environment*, 40, 5476-5485.
 23. **Fries, E.**, Püttmann, W. (2006) Improvement of HS-SPME for the analysis of volatile organic compounds (VOC) in water samples by simultaneous direct fibre cooling and freezing of analyte solution. *Analytical and Bioanalytical Chemistry*, 386, 1497-1503.
 24. **Fries, E.**, Püttmann, W. (2004) Monitoring of the Antioxidant BHT and its metabolite BHT CHO in German river water and ground water. *Science of the Total Environment*, 319, 269-282.
 25. **Fries, E.**, Püttmann, W. (2004) Occurrence of 4-Nonylphenol in rain and snow. *Atmospheric Environment*, 38, 2013-2016.
 26. **Fries, E.**, Püttmann W. (2003) Monitoring of the organophosphate esters TBP, TCEP and TBEP in river water and ground water (Oder, Germany). *Journal of Environmental Monitoring*, 5, 346-352
 27. **Fries, E.**, Püttmann W. (2003) Occurrence and behaviour of 4-nonylphenol in river water of Germany. *Journal of Environmental Monitoring*, 5, 598-603.
 28. **Fries, E.**, Püttmann, W. (2002) Analysis of the antioxidant butylated hydroxytoluene (BHT) in water by means of solid phase extraction combined with GC/MS. *Water Research*, 36, 2319-2327.
 29. **Fries, E.**, Püttmann, W. (2001) Occurrence of organophosphate esters in surface water and ground water of Germany. *Journal of Environmental Monitoring*, 3, 621-626.

Invited contributions

- Fries, E.** (2011) Kurz vorgestellt. Juniorprofessur "Angewandte Umweltsystemanalyse", Universität Osnabrück. Mitteilungen der Fachgruppe Umweltchemie und Ökotoxikologie der GDCh, 17. Jahrg. 2011/ Nr. 1.
- Fries, E.**, Ernesti, S., Klasmeier, J. Fletemeyer, H. (2010) Nachweis von Flugzeug- und Betriebsflächenenteisungsmitteln im Oberflächenabfluss des Flughafens Hannover-Langenhagen mittels Festphasenmikroextraktion *Mitteilungen der Fachgruppe Umweltchemie und Ökotoxikologie der GDCh*, 16. Jahrg. 2010/ Nr. 1.
- Fries, E.**, Ernesti, S. Analysis of propylene glycol in airport surface runoff by solid-phase micro extraction (SPME) and gas chromatography/mass spectrometry (GC/MS). In: Toma J.
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Quintin, Ed: Chromatography: Types, Techniques and Methods. Publisher: Nova Science Publishers, Inc., NY. 2010. ISBN: 978-1-60876-316-0.

Fries, E., Kiss, A. (2009) Korrosionsinhibitoren in der aquatischen Umwelt: Benzotriazole in Main, Hengstbach und Hegbach. *Mitteilungen der Fachgruppe Umweltchemie und Ökotoxikologie der GDCh*, 15. Jahrg. 2009/ Nr. 1.

Fries, E. (2008) Interactions of gaseous hydrocarbons with snow and ice, in: Recent Developments of Chemistry and Photochemistry in Ice'. Editor: Takenaka, N., Transworld Research Network 37/661 (1), Kerala, India, 137-162, 2008 (ISBN: 978-81-7895-331-1)

Patents

Fries, E., Püttmann, W. (Erfinder) Verbessertes Verfahren zur qualitativen und/oder quantitativen Bestimmung geringer Konzentrationen an organischen Spurenstoffen in wässrigen Systemen und eine Analysevorrichtung zur Durchführung dieses Verfahrens. J.W. Goethe-Universität Frankfurt, Patent Nr. 102006021333. Deutsches Patent- und Markenamt, München, 19.02.2009.

Others

Fries, E. (2009) Propylenglykol aus Flugzeugenteisungsmitteln im Oberflächenablauf und Flugzeug-Enteisungs-Abwasser am Flughafen Hannover/Langenhagen. Abschlussbericht.

Fries, E. (2007) Umweltzonenabhängige Besteuerung von Fahrzeugen zur Minderung der NO₂-Problematik in Städten. Diplomarbeit an der Fakultät für Wirtschaftswissenschaft, Fernuniversität Hagen.

Fries, E., Sieg, K., Starokozhev, E., Jaeschke, W., Püttmann W. (2006) Volatile organic compounds (VOC) in air, snow and ice crystals at high alpine research station Jungfraujoch during CLACE 4. International Foundation HFSJG Activity Report 2006.

Fries, E., Jaeschke, W., Püttmann, W., Starokozhev, E., Auras, S., Sieg, K. (2005) Volatile organic compounds (VOC) in air, snow and ice crystals and super-cooled droplets at high alpine research station Jungfraujoch during CLACE 4. International Foundation HFSJG Activity Report 2005, 93-95.

Fries, E., Püttmann, W. (2002) Eintrag von Nonylphenol und Bisphenol A aus der Oder in den anaeroben Grundwasserleiter des Oderbruchs. In: Bilitewski, B., Weltin, D. & Werner, P. [Hrsg] Endokrin wirksame Substanzen in Abwasser und Klärschlamm - Neueste Ergebnisse aus Wissenschaft und Technik. Beiträge zu Abfallwirtschaft/Altlasten, Bd 23.- Dresden.

Fries, E., Püttmann, W. (2002) Transport and biodegradation of the antioxidant butylated hydroxytoluene (BHT) during infiltration of river water to ground water. In: Proceedings of the 3rd. International Conference on Water Resources and Environmental Research (ICWRER), 22.-26.-July 2002 in Dresden, (Ed. G.H. Schmitz). Vol. II, pp. 367-372.

Fries, E. (2000) Hydrogeologische und Hydrochemische Untersuchungen im Einzugsgebiet der Schwarzach. Naturwissenschaftliches Jahrbuch Schweinfurt, Band 18, 1-65.
