

## Publications in Peer-Reviewed Journals

- Linden, L., K.U. Goss, and S. Endo, (2016):  
Exploring 3D structural influences of aliphatic and aromatic chemicals on alpha-cyclodextrin binding  
*Journal of Colloid and Interface Science* **468**, 42-50
- Henneberger, L., K.U. Goss, and S. Endo, (2016):  
Equilibrium Sorption of Structurally Diverse Organic Ions to Bovine Serum Albumin  
*Environ. Sci. Technol.* **50(10)**, 5119-5126
- Henneberger, L., K.U. Goss, and S. Endo, (2016):  
Partitioning of Organic Ions to Muscle Protein: Experimental Data, Modeling, and Implications for in Vivo Distribution of Organic Ions  
*Environ. Sci. Technol.* **50(13)**, 7029-7036
- Goss, K.U. and S. Endo, (2016):  
Comment on "Application of the Activity Framework for Assessing Aquatic Ecotoxicology Data for Organic Chemicals"  
*Environ. Sci. Technol.* **50(7)**, 4139-4140
- Bittermann, K., S. Spycher, and K.U. Goss, (2016):  
Comparison of different models predicting the phospholipid-membrane water partition coefficients of charged compounds  
*Chemosphere* **144**, 382-391
- Wania, F., et al., (2015):  
Using the chemical equilibrium partitioning space to explore factors influencing the phase distribution of compounds involved in secondary organic aerosol formation  
*Atmospheric Chemistry and Physics* **15(6)**, 3395-3412
- Wang, C., et al., (2015):  
Calculating Equilibrium Phase Distribution during the Formation of Secondary Organic Aerosol Using COSMOtherm  
*Environ. Sci. Technol.* **49(14)**, 8585-8594
- Geisler, A., et al., (2015):  
Predicting Storage-Lipid Water Partitioning of Organic Solutes from Molecular Structure  
*Environ. Sci. Technol.* **49(9)**, 5538-5545
- Endo, S., T.N. Brown, and K.-U. Goss, (2015):  
Comments on "A simple method for estimating in vitro air-tissue and in vivo blood-tissue partition coefficients" by Abraham, Gala, Ibrahim, Acree and Liu  
*Chemosphere* **120**, 793-796
- Wania, F., et al., (2014):  
Novel methods for predicting gas-particle partitioning during the formation of secondary organic aerosol  
*Atmos. Chem. Phys.* **14(23)**, 13189-13204
- Stenzel, A., K.-U. Goss, and S. Endo, (2014):  
Prediction of partition coefficients for complex environmental contaminants: Validation of COSMOtherm, ABSOLV, and SPARC  
*Environmental Toxicology and Chemistry* **33(7)**, 1537-1543
- Schoon, A., et al., (2014):  
Using dogs to detect hidden corrosion  
*Applied Animal Behaviour Science* **153**, 43-52
- Praetorius, A., et al., (2014):  
The road to nowhere: equilibrium partition coefficients for nanoparticles  
*Environmental Science Nano* **1**, 317-323

- Oemisch, L., K.-U. Goss, and S. Endo, (2014):  
Ion exchange membranes as novel passive sampling material for organic ions: Application for the determination of freely dissolved concentrations  
*J Chromatogr. A* **1370**, 17-24
- Endo, S., et al., ():  
UFZ-LSER database v 2.1 2014 [cited 2014 17.04.2014]  
Available from: <http://www.ufz.de/LSERD> ,
- Endo, S. and K.-U. Goss, (2014):  
Predicting Partition Coefficients of Polyfluorinated and Organosilicon Compounds using Polyparameter Linear Free Energy Relationships (PP-LFERs)  
*Environ. Sci. Technol.* **48(5)**, 2776-2784
- Endo, S. and K.-U. Goss, (2014):  
Applications of Polyparameter Linear Free Energy Relationships in Environmental Chemistry  
*Environ. Sci. Technol.* **48**, 12477-12491
- Bittermann, K., et al., (2014):  
Prediction of phospholipid-water partition coefficients of ionic organic chemicals using the mechanistic model COSMOmic  
*J. Phys. Chem. B* **118(51)**, 14833-14842
- Stenzel, A., K.-U. Goss, and S. Endo, (2013):  
Experimental Determination of Polyparameter Linear Free Energy Relationship (pp-LFER) Substance Descriptors for Pesticides and Other Contaminants: New Measurements and Recommendations  
*Environ. Sci. Technol.* **47(24)**, 14204-14214
- Stenzel, A., M. Endo, and K.U. Goss, (2013):  
Determination of Polyparameter Linear Free Energy Relationship (pp-LFER) Substance Descriptors for Established and Alternative Flame Retardants  
*Environ. Sci. Technol.* **47(3)**, 1399-1406
- Schneider, M., S. Endo, and K.U. Goss, (2013):  
Volatilization of Pesticides from the Bare Soil Surface: Evaluation of the Humidity Effect  
*Journal of Environmental Quality* **42(3)**, 844-851
- Oemisch, L., S. Endo, and K.U. Goss, (2013):  
Determination of oil-water partition coefficients of polar compounds: silicone membrane equilibrators vs. SPME passive sampler  
*Anal. Bioanal. Chem.* **405**, 2567-2574
- Goss, K.U., T.N. Brown, and S. Endo, (2013):  
Elimination half-life as a metric for the bioaccumulation potential of chemicals in aquatic and terrestrial food chains  
*Environ. Toxic. Chem.* **32(7)**, 1663-1671
- Endo, S., T.N. Brown, and K.-U. Goss, (2013):  
A General Model for Estimating Partition Coefficients to Organisms and their Tissues using the Biological Compositions and Polyparameter Linear Free Energy Relationships  
*Environ. Sci. Technol.* **47(12)**, 6630-6639
- Droge, S.T.J. and K.U. Goss, (2013):  
Ion-exchange affinity of organic cations to natural organic matter: influence of amine type and nonionic interactions at two different pHs  
*Environ. Sci. Technol.* **47(2)**, 798-806
- Droge, S.T.J. and K.-U. Goss, (2013):  
Development and Evaluation of a New Sorption Model for Organic Cations in Soil:

Contributions from Organic Matter and Clay Minerals

*Environ. Sci. Technol.* **47(24)**, 14233-14241

- Droge, S.T.J. and K.-U. Goss, (2013):  
Sorption of Organic Cations to Phyllosilicate Clay Minerals: CEC-Normalization, Salt Dependency, and the Role of Electrostatic and Hydrophobic Effects  
*Environ. Sci. Technol.* **47(24)**, 14224-14232
- Stenzel, A., M. Endo, and K.U. Goss, (2012):  
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*J Chromatogr. A* **1220**, 132-142
- Schneider, M. and K.U. Goss, (2012):  
Prediction of water retention curves for dry soils from an established pedotransfer function: Evaluation of the Webb model  
*Water Resources Research* **48**, W06603
- Schneider, M. and K.U. Goss, (2012):  
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*Geoderma* **170**, 64-69
- Schneider, M. and K.U. Goss, (2012):  
Volatilization Modeling of Two Herbicides from Soil in a Wind Tunnel Experiment under Varying Humidity Conditions  
*Environ. Sci. Technol.* **46(22)**, 12527–12533
- Schenzel, J., et al., (2012):  
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- Goss, K.-U., (2011):  
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*Chemosphere* **82**, 210-214
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