



Martin Reinhard

Professor (Research) of Civil and Environmental Engineering, Emeritus

Bio

BIO

Reinhard studies the fate of organic substances in the subsurface environment and develops technologies for the remediation of groundwater contaminated with chlorinated and non-chlorinated hydrocarbon compounds. His research is concerned with mechanistic aspects of chemical and biological transformation reactions in soils, natural waters, and treatment systems.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Civil and Environmental Engineering

HONORS AND AWARDS

- CH2M-Hill and the Association of Environmental Engineering Professors, Faculty Advisor Award (1994)
- Jack Edward McKee Medal, Water Environment Federation (1997)
- Highly Cited Researcher in Ecology and the Environment, ISI (2002)
- Wright Brothers Medal, SAE (2005)
- Arch T. Colwell Merit Award, SAE (2006)
- Alexander von Humboldt Research Prize, Alexander von Humboldt Foundation (2012)

PROFESSIONAL EDUCATION

- Dr.Tech.Sc., E.T.H. Zurich (1977)

Publications

PUBLICATIONS

- **Quantification of cylindrospermopsin, anatoxin-a and homoanatoxin-a in cyanobacterial bloom freshwater using direct injection/SPE coupled with UPLC-MS/MS.** *The Science of the total environment*
Tran, N. H., Li, Y. n., Reinhard, M. n., Goh, K. C., Sukarji, N. H., You, L. n., He, Y. n., Gin, K. Y.
2020; 731: 139014
- **A sensitive and accurate method for simultaneous analysis of algal toxins in freshwater using UPLC-MS/MS and 15N-microcystins as isotopically labelled internal standards.** *The Science of the total environment*
Tran, N. H., Li, Y. n., Reinhard, M. n., He, Y. n., Gin, K. Y.
2020; 738: 139727
- **Quantitative assessment of the iron-catalyzed degradation of a polyamide nanofiltration membrane by hydrogen peroxide** *JOURNAL OF MEMBRANE SCIENCE*
Yu, L., Ling, R., Chen, J., Reinhard, M.

2019; 588

- **Emerging contaminants in wastewater, stormwater runoff, and surface water: Application as chemical markers for diffuse sources** *SCIENCE OF THE TOTAL ENVIRONMENT*
Ngoc Han Tran, Reinhard, M., Khan, E., Chen, H., Viet Tung Nguyen, Li, Y., Goh, S., Nguyen, Q. B., Saeidi, N., Gin, K.
2019; 676: 252–67
- **Multi-compartment distribution of perfluoroalkyl and polyfluoroalkyl substances (PFASs) in an urban catchment system** *WATER RESEARCH*
Chen, H., Reinhard, M., Yin, T., Tung Viet Nguyen, Ngoc Han Tran, Gin, K.
2019; 154: 227–37
- **Iron catalyzed degradation of an aromatic polyamide reverse osmosis membrane by free chlorine** *JOURNAL OF MEMBRANE SCIENCE*
Ling, R., Shao, J., Chen, J., Reinhard, M.
2019; 577: 205–11
- **Multi-compartment distribution of perfluoroalkyl and polyfluoroalkyl substances (PFASs) in an urban catchment system.** *Water research*
Chen, H., Reinhard, M., Yin, T., Nguyen, T. V., Tran, N. H., Yew-Hoong Gin, K.
2019; 154: 227–37
- **Emerging contaminants in wastewater, stormwater runoff, and surface water: Application as chemical markers for diffuse sources.** *The Science of the total environment*
Tran, N. H., Reinhard, M. n., Khan, E. n., Chen, H. n., Nguyen, V. T., Li, Y. n., Goh, S. G., Nguyen, Q. B., Saeidi, N. n., Gin, K. Y.
2019; 676: 252–67
- **Biotransformation of Sulfluramid (N-ethyl perfluorooctane sulfonamide) and dynamics of associated rhizospheric microbial community in microcosms of wetland plants** *CHEMOSPHERE*
Yin, T., Te, S., Reinhard, M., Yang, Y., Chen, H., He, Y., Gin, K.
2018; 211: 379–89
- **Degradation of organic compounds during the corrosion of ZVI by hydrogen peroxide at neutral pH: Kinetics, mechanisms and effect of corrosion promoting and inhibiting ions** *WATER RESEARCH*
Ling, R., Chen, J., Shao, J., Reinhard, M.
2018; 134: 44–53
- **Occurrence and fate of emerging contaminants in municipal wastewater treatment plants from different geographical regions-a review** *WATER RESEARCH*
Ngoc Han Tran, Reinhard, M., Gin, K.
2018; 133: 182–207
- **Occurrence and Fate of Benzophenone-Type UV Filters in a Tropical Urban Watershed** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Mao, F., You, L., Reinhard, M., He, Y., Gin, K.
2018; 52 (7): 3960–67
- **Catalytic effect of iron on the tolerance of thin-film composite polyamide reverse osmosis membranes to hydrogen peroxide** *JOURNAL OF MEMBRANE SCIENCE*
Ling, R., Yu, L., Thi Phuong Thuy Pham, Shao, J., Chen, J., Reinhard, M.
2018; 548: 91–98
- **Effects of monochloramine and hydrogen peroxide on the bacterial community shifts in biologically treated wastewater** *CHEMOSPHERE*
Yang, Y., Cheng, D., Li, Y., Yu, L., Gin, K., Chen, J., Reinhard, M.
2017; 189: 399–406
- **Perfluoroalkyl and polyfluoroalkyl substances removal in a full-scale tropical constructed wetland system treating landfill leachate** *WATER RESEARCH*
Yin, T., Chen, H., Reinhard, M., Yi, X., He, Y., Gin, K.
2017; 125: 418–26
- **Occurrence and removal of multiple classes of antibiotics and antimicrobial agents in biological wastewater treatment processes** *WATER RESEARCH*
Ngoc Han Tran, N. H., Chen, H., Reinhard, M., Mao, F., Gin, K. Y.
2016; 104: 461–472
- **Simultaneous analysis of multiple classes of antimicrobials in environmental water samples using SPE coupled with UHPLC-ESI-MS/MS and isotope dilution** *TALANTA*

Ngoc Han Tran, N. H., Chen, H., Thanh Van Do, T. V., Reinhard, M., Huu Hao Ngo, H. H., He, Y., Gin, K. Y.
2016; 159: 163-173

- **High activity and regenerability of a palladium-gold catalyst for chloroform degradation** *JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY*
Velazquez, J. C., Leekumjorn, S., Hopkins, G. D., Heck, K. N., McPherson, J. S., Wilkens, J. A., Nave, B. S., Reinhard, M., Wong, A. S.
2016; 91 (10): 2590-2596
- **Using *Pseudomonas aeruginosa* PAO1 to evaluate hydrogen peroxide as a biofouling control agent in membrane treatment systems.** *Letters in applied microbiology*
Yang, Y., Kitajima, M., Pham, T. P., Yu, L., Ling, R., Gin, K. Y., Reinhard, M.
2016
- **Fate and transport of perfluoro- and polyfluoroalkyl substances including perfluorooctane sulfonamides in a managed urban water body** *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*
Nguyen, T. V., Reinhard, M., Chen, H., Gin, K. Y.
2016; 23 (11): 10382-10392
- **3D visualization of the internal nanostructure of polyamide thin films in RO membranes** *JOURNAL OF MEMBRANE SCIENCE*
Pacheco, F., Sougrat, R., Reinhard, M., Leckie, J. O., Pinnau, I.
2016; 501: 33-44
- **Reversible and irreversible sorption of perfluorinated compounds (PFCs) by sediments of an urban reservoir** *CHEMOSPHERE*
Chen, H., Reinhard, M., Viet Tung Nguyen, V. T., Gin, K. Y.
2016; 144: 1747-1753
- **Investigation of pharmaceuticals, personal care products and endocrine disrupting chemicals in a tropical urban catchment and the influence of environmental factors** *SCIENCE OF THE TOTAL ENVIRONMENT*
You, L., Viet Tung Nguyen, V. T., Pal, A., Chen, H., He, Y., Reinhard, M., Gin, K. Y.
2015; 536: 955-963
- **Emerging contaminants of public health significance as water quality indicator compounds in the urban water cycle.** *Environment international*
Pal, A., He, Y., Jekel, M., Reinhard, M., Gin, K. Y.
2014; 71: 46-62
- **Emerging contaminants of public health significance as water quality indicator compounds in the urban water cycle** *ENVIRONMENT INTERNATIONAL*
Pal, A., He, Y., Jekel, M., Reinhard, M., Gin, K. Y.
2014; 71: 46-62
- **Environmental and Health Impacts of Artificial Turf: A Review** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Cheng, H., Hu, Y., Reinhard, M.
2014; 48 (4): 2114-2129
- **Chloroform Hydrodechlorination Behavior of Alumina-supported Pd and PdAu Catalysts** *AICHE JOURNAL*
Velazquez, J. C., Leekumjorn, S., Nguyen, Q. X., Fang, Y., Heck, K. N., Hopkins, G. D., Reinhard, M., Wong, M. S.
2013; 59 (12): 4474-4482
- **Critical Review of Desalination Concentrate Management, Treatment and Beneficial Use** *ENVIRONMENTAL ENGINEERING SCIENCE*
Xu, P., Cath, T. Y., Robertson, A. P., Reinhard, M., Leckie, J. O., Drewes, J. E.
2013; 30 (8): 502-514
- **Rate laws and kinetic modeling of N-ethyl perfluorooctane sulfonamidoethanol (N-EtFOSE) transformation by hydroxyl radical in aqueous solution** *WATER RESEARCH*
Tung Viet Nguyen, T. V., Reinhard, M., Gin, K. Y.
2013; 47 (7): 2241-2250
- **Effects of Chlorine Exposure Conditions on Physicochemical Properties and Performance of a Polyamide Membrane-Mechanisms and Implications** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Van Thanh Do, V. T., Tang, C. Y., Reinhard, M., Leckie, J. O.
2012; 46 (24): 13184-13192

- **Recycled water for stream flow augmentation: Benefits, challenges, and the presence of wastewater-derived organic compounds** *SCIENCE OF THE TOTAL ENVIRONMENT*
Plumlee, M. H., Gurr, C. J., Reinhard, M.
2012; 438: 541-548
- **Effects of hypochlorous acid exposure on the rejection of salt, polyethylene glycols, boron and arsenic(V) by nanofiltration and reverse osmosis membranes** *WATER RESEARCH*
Van Thanh Do, V. T., Tang, C. Y., Reinhard, M., Leckie, J. O.
2012; 46 (16): 5217-5223
- **Effects of hypochlorous acid exposure on the rejection of salt, polyethylene glycols, boron and arsenic(V) by nanofiltration and reverse osmosis membranes.** *Water research*
Do, V. T., Tang, C. Y., Reinhard, M., Leckie, J. O.
2012; 46 (16): 5217-5223
- **Fate of Endocrine-Disrupting and Pharmaceutically Active Substances in Sand Columns Fed with Secondary Effluent** *JOURNAL OF ENVIRONMENTAL ENGINEERING-ASCE*
Ke, J., Gin, K. Y., Tan, L. H., Reinhard, M.
2012; 138 (10): 1067-1076
- **Critical Review of Pd-Based Catalytic Treatment of Priority Contaminants in Water** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Chaplin, B. P., Reinhard, M., Schneider, W. F., Schueth, C., Shapley, J. R., Strathmann, T. J., Werth, C. J.
2012; 46 (7): 3655-3670
- **Degradation of Polyamide Nanofiltration and Reverse Osmosis Membranes by Hypochlorite** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Van Thanh Do, V. T., Tang, C. Y., Reinhard, M., Leckie, J. O.
2012; 46 (2): 852-859
- **Occurrence, fate, and fluxes of perfluorochemicals (PFCs) in an urban catchment: Marina Reservoir, Singapore** *WATER SCIENCE AND TECHNOLOGY*
Nguyen, V. T., Gin, K. Y., Reinhard, M., Liu, C.
2012; 66 (11): 2439-2446
- **Novel Perspectives on the Bioaccumulation of PFCs - the Concentration Dependency** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Liu, C., Gin, K. Y., Chang, V. W., Goh, B. P., Reinhard, M.
2011; 45 (22): 9758-9764
- **Photodegradation kinetics of p-tert-octylphenol, 4-tert-octylphenoxy-acetic acid and ibuprofen under simulated solar conditions in surface water** *CHEMOSPHERE*
Xu, Y., Tung Viet Nguyen, T. V., Reinhard, M., Gin, K. Y.
2011; 85 (5): 790-796
- **Occurrence of emerging organic contaminants in a tropical urban catchment in Singapore** *CHEMOSPHERE*
Xu, Y., Luo, F., Pal, A., Gin, K. Y., Reinhard, M.
2011; 83 (7): 963-969
- **Biotransformation of Halogenated Nonylphenols with Sphingobium Xenophagum Bayram and a Nonylphenol-Degrading Soil-Enrichment Culture** *ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY*
Li, Y., Montgomery-Brown, J., Reinhard, M.
2011; 60 (2): 212-219
- **Occurrence and source characterization of perfluorochemicals in an urban watershed** *CHEMOSPHERE*
Nguyen, V. T., Reinhard, M., Karina, G. Y.
2011; 82 (9): 1277-1285
- **Effects of surface coating process conditions on the water permeation and salt rejection properties of composite polyamide reverse osmosis membranes** *JOURNAL OF MEMBRANE SCIENCE*
Louie, J. S., Pinnau, I., Reinhard, M.
2011; 367 (1-2): 249-255
- **Impacts of emerging organic contaminants on freshwater resources: Review of recent occurrences, sources, fate and effects** *SCIENCE OF THE TOTAL ENVIRONMENT*

- Pal, A., Gin, K. Y., Lin, A. Y., Reinhard, M.
2010; 408 (24): 6062-6069
- **Characterization of isolated polyamide thin films of RO and NF membranes using novel TEM techniques** *JOURNAL OF MEMBRANE SCIENCE*
Pacheco, F. A., Pinnau, I., Reinhard, M., Leckie, J. O.
2010; 358 (1-2): 51-59
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Cheng, H., Reinhard, M.
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 - **Occurrence of Herbicides and Pharmaceutical and Personal Care Products in Surface Water and Groundwater around Liberty Bay, Puget Sound, Washington** *Symposium on Emerging Trace Contaminants in Surface and Ground Water Generated from Waste Water and Solid Waste Application*
Dougherty, J. A., Swarzenski, P. W., Dinicola, R. S., Reinhard, M.
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 - **Effects of Sorption on the Rejection of Trace Organic Contaminants During Nanofiltration** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Steinle-Darling, E., Litwiller, E., Reinhard, M.
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 - **Indirect Photolysis of Perfluorochemicals: Hydroxyl Radical-Initiated Oxidation of N-Ethyl Perfluorooctane Sulfonamido Acetate (N-EtFOSAA) and Other Perfluoroalkanesulfonamides** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Plumlee, M. H., McNeill, K., Reinhard, M.
2009; 43 (10): 3662-3668
 - **Controlled field studies on soil aquifer treatment in a constructed coastal sandfill** *WATER SCIENCE AND TECHNOLOGY*
Chua, L. H., Leong, M. C., Lo, E. Y., Reinhard, M., Robertson, A. P., Lim, T. T., Shuy, E. B., Tan, S. K.
2009; 60 (5): 1283-1293
 - **Implementing Heterogeneous Catalytic Dechlorination Technology for Remediating TCE-Contaminated Groundwater** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Davie, M. G., Cheng, H., Hopkins, G. D., Lebron, C. A., Reinhard, M.
2008; 42 (23): 8908-8915
 - **Gas and liquid permeation properties of modified interfacial composite reverse osmosis membranes** *JOURNAL OF MEMBRANE SCIENCE*
Louie, J. S., Pinnau, I., Reinhard, M.
2008; 325 (2): 793-800
 - **NP1EC degradation pathways under oxic and microoxic conditions** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Montgomery-Brown, J., Li, Y., Ding, W., Mong, G. M., Campbell, J. A., Reinhard, M.
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 - **Perfluorochemicals in water reuse** *CHEMOSPHERE*
Plumlee, M. H., Larabee, J., Reinhard, M.
2008; 72 (10): 1541-1547
 - **Nanofiltration for trace organic contaminant removal: Structure, solution, and membrane fouling effects on the rejection of perfluorochemicals** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Steinle-Darling, E., Reinhard, M.
2008; 42 (14): 5292-5297
 - **The rate of 2,2-dichloropropane transformation in mineral micropores: Implications of sorptive preservation for fate and transport of organic contaminants in the subsurface** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Cheng, H., Reinhard, M.
2008; 42 (8): 2879-2885
 - **Palladium-indium catalyzed reduction of N-nitrosodimethylamine: Indium as a promoter metal** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Davie, M. G., Shih, K., Pacheco, F. A., Leckie, J. O., Reinhard, M.
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- **N-nitrosodimethylamine (NDMA) removal by reverse osmosis and UV treatment and analysis via LC-MS/MS** *WATER RESEARCH*
Plumlee, M. H., Lopez-Mesas, M., Heidlberger, A., Ishida, K. P., Reinhard, M.
2008; 42 (1-2): 347-355
- **Evaluating the impacts of membrane type, coating, fouling, chemical properties and water chemistry on reverse osmosis rejection of seven nitrosoalkylamines, including NDMA** *WATER RESEARCH*
Steinle-Darling, E., Zedda, M., Plumlee, M. H., Ridgway, H. F., Reinhard, M.
2007; 41 (17): 3959-3967
- **Photochemical attenuation of N-nitrosodimethylamine (NDMA) and other Nitrosamines in surface water** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Plumlee, M. H., Reinhard, M.
2007; 41 (17): 6170-6176
- **Palladium-catalyzed aqueous hydrodehalogenation in column reactors: Modeling of deactivation kinetics with sulfide and comparison of regenerants** *APPLIED CATALYSIS B-ENVIRONMENTAL*
Munakata, N., Reinhard, M.
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- **Potential for 17 beta-estradiol and estrone degradation in a recharge aquifer system** *JOURNAL OF ENVIRONMENTAL ENGINEERING-ASCE*
Lim, T. H., Gin, K. Y., Chow, S. S., Chen, Y. H., Reinhard, M., Tay, J. H.
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- **Characterization of estrogen-degrading bacteria isolated from an artificial sandy aquifer with ultrafiltered secondary effluent as the medium** *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*
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- **Sorption and inhibited dehydrohalogenation of 2,2-dichloropropane in micropores of dealuminated Y zeolites** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Cheng, H., Reinhard, M.
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- **Natural attenuation potential of downwelling streams for perfluorochemicals and other emerging contaminants** *WATER SCIENCE AND TECHNOLOGY*
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2007; 56 (11): 59-64
- **Sorption of trichloroethylene in hydrophobic micropores of dealuminated Y zeolites and natural minerals** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
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- **Metal-catalyzed reduction of N-nitrosodimethylamine with hydrogen in water** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Davie, M. G., Reinhard, M., Shapley, J. R.
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- **Effects of polyether-polyamide block copolymer coating on performance and fouling of reverse osmosis membranes** *JOURNAL OF MEMBRANE SCIENCE*
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- **Bioremediation of cis-DCE at a sulfidogenic site by amendment with propionate** *GROUND WATER MONITORING AND REMEDIATION*
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- **Natural attenuation of pharmaceuticals and alkylphenol polyethoxylate metabolites during river transport: Photochemical and biological transformation** *ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY*
Lin, A. Y., Plumlee, M. H., Reinhard, M.
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- **EDTA, NTA, alkylphenol ethoxylate and DOC attenuation during soil aquifer treatment** *JOURNAL OF ENVIRONMENTAL ENGINEERING-ASCE*
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- **Measuring hydrophobic micropore volumes in geosorbents from trichloroethylene desorption data** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Cheng, H., Reinhard, M.
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- **Harnessing natural attenuation of pharmaceuticals and hormones in rivers** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Gurr, C. J., Reinhard, M.
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- **Reductive hydrodechlorination of trichloroethylene by palladium-on-alumina catalyst: C-13 solid-state NMR study of surface reaction precursors** *LANGMUIR*
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Reinhard, M., Hopkins, G. D., Steinle-Darling, E., Lebron, C. A.
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Lin, A. Y., Reinhard, M.
2005; 24 (6): 1303-1309
- **Complete biological dehalogenation of chlorinated ethylenes in sulfate containing groundwater** *BIODEGRADATION*
Hoelen, T. P., Reinhard, M.
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- **Hydraulics of recirculating well pairs for ground water remediation** *GROUND WATER*
Cunningham, J. A., Hoelen, T. P., Hopkins, G. D., Lebron, C. A., Reinhard, M.
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- **Hydraulics of recirculating well pairs for ground water remediation.** *Ground water*
Cunningham, J. A., Hoelen, T. P., Hopkins, G. D., Lebrón, C. A., Reinhard, M.
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- **Occurrence and fate of pharmaceuticals and alkylphenol ethoxylate metabolites in an effluent-dominated river and wetland** *ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY*
Gross, B., Montgomery-Brown, J., Naumann, A., Reinhard, M.
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- **Behavior of alkylphenol polyethoxylate metabolites during soil aquifer treatment** *WATER RESEARCH*
Montgomery-Brown, J., Drewes, J. E., Fox, P., Reinhard, M.
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- **Comparing microfiltration-reverse osmosis and soil-aquifer treatment for indirect potable reuse of water** *WATER RESEARCH*
Drewes, J. E., Reinhard, M., Fox, P.
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- **Occurrence and behavior of alkylphenol polyethoxylates in the environment** *ENVIRONMENTAL ENGINEERING SCIENCE*
Montgomery-Brown, J., Reinhard, M.
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- **From effluent to new water: Performance evaluation and quality assurance** *CHIMIA*
Reinhard, M., Montgomery-Brown, J., Louie, J. S., Gross, B.
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- **Injection-extraction treatment well pairs: An alternative to permeable reactive barriers** *GROUND WATER*
Cunningham, J. A., Reinhard, M.
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- **Enhanced in situ bioremediation of BTEX contaminated groundwater by combined injection of nitrate and sulfate** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
Cunningham, J. A., Rahme, H., Hopkins, G. D., Lebron, C., Reinhard, M.
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- **Coupling of toluene oxidation with PCE dechlorination under sulfidogenic conditions** *6th International In Situ and On-Site Bioremediation Symposium*
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Schaefer, C. E., Schuth, C., Werth, C. R., Reinhard, M.
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- **Pd-catalyzed hydrodehalogenation of chlorinated compounds: Spectroscopic analysis** *2nd International Conference on Remediation of Chlorinated and Recalcitrant Compounds*
Munakata, N., Lowry, G., Sriwatanapongse, W., Reinhard, M.
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