Stanford



Martin Reinhard

Professor (Research) of Civil and Environmental Engineering, Emeritus

CONTACT INFORMATION

- **Alternate Contact**

  Diana Lin - Faculty Affairs & Staffing Manager

  Email lindiana@stanford.edu

  Tel 650-507-7473

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

- **Effect of repeated sorption-desorption on irreversible and reversible absorption of hydrophobic perfluoroalkyl acids to freshwater sediment** *ENVIRONMENTAL TECHNOLOGY & INNOVATION*

  Chen, H., Reinhard, M., You, L., Gin, K.

  2022; 28

- **One planet: one health. A call to support the initiative on a global science-policy body on chemicals and waste.** *Environmental sciences Europe*
  Brack, W., Barcelo Culleres, D., Boxall, A. B., Budzinski, H., Castiglioni, S., Covaci, A., Dulio, V., Escher, B. I., Fantke, P., Kandie, F., Fatta-Kassinos, D., Hernandez, F. J., Hilscherova, et al
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- **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.
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  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.
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- **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.
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- **Effects of Chlorine Exposure Conditions on Physiochemical 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.
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- **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.
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- **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.
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- **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.
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- **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.
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- **Novel Perspectives on the Bioaccumulation of PFCs - the Concentration Dependency** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
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- **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.
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- **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.
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- **Occurrence and source characterization of perfluorochemicals in an urban watershed** *CHEMOSPHERE*
  Nguyen, V. T., Reinhard, M., Karina, G. Y.
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- **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.
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- **Impacts of emerging organic contaminants on freshwater resources: Review of recent occurrences, sources, fate and effects** *SCIENCE OF THE TOTAL ENVIRONMENT*
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- **Characterization of isolated polyamide thin films of RO and NF membranes using novel TEM techniques** *JOURNAL OF MEMBRANE SCIENCE*
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- **In-line gas chromatographic apparatus for measuring the hydrophobic micropore volume (HMV) and contaminant transformation in mineral micropores** *JOURNAL OF HAZARDOUS MATERIALS*
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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.
  2010; 44 (7): 2592-2598

- **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.
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- **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*
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  Louie, J. S., Pinnau, I., Reinhard, M.
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  Plumlee, M. H., Larabee, J., Reinhard, M.
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- **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.
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- **Palladium-indium catalyzed reduction of N-nitrosodimethylamine: Indium as a promoter metal** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
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- **Evaluating the impacts of membrane type, coating, fouling, chemical properties and water chemistry on reverse osmosis rejection of seven nitrosoalklyamines, including NDMA** *WATER RESEARCH*
  Steinle-Darling, E., Zedda, M., Plumlee, M. H., Ridgway, H. F., Reinhard, M.
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- **Photochemical attenuation of N-nitrosodimethylamine (NDMA) and other Nitrosamines in surface water** *ENVIRONMENTAL SCIENCE & TECHNOLOGY*
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- **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.
  2007; 133 (8): 819-826
- **Characterization of estrogen-degrading bacteria isolated from an artificial sandy aquifer with ultrafiltered secondary effluent as the medium** *APPLIED MICROBIOLOGY AND BIOTECHNOLOGY*
  Ke, J., Zhuang, W., Gin, K. Y., Reinhard, M., Hoon, L. T., Tay, J.
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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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- **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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  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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  Cheng, H., Reinhard, M.
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