

EAWAG/ETH Dissertations with Chemical Emphasis 1990–1997

The research institute EAWAG is closely associated with ETH-Zürich which is reflected in the sizeable number of dissertations which have been carried out at EAWAG. The following list contains the EAWAG/ETH dissertations from 1990 to 1997 which have either a chemical subject or use chemical methods for other environmental disciplines.

		Diss. ETH No.	
Aeschbach, Werner	Helium and Tritium als Tracer für physikalische Prozesse in Seen	10714	1994
Altenbach, Beat	Determination of Substituted Benzene- and Naphthalenesulfonates in Waste Water, and Their Behaviour in Sewage Treatment	11437	1996
Bally, Matthias	Physiology and Ecology of Nitrilotriacetate Degrading Bacteria in Pure Culture, Activated Sludge and Surface Waters	10821	1994
Baumann, Barbara	Dynamics of Denitrification in <i>Paracoccus denitrificans</i>	12096	1997
Baumgartner, Stefan M.M.	Kosmogene Radioisotope im Pleistozän des Summit-GRIP-Eiskerns	11264	1995
Biber, Madeleine V.	Carboxylic Acids on Metal Oxides in Water: An <i>In Situ</i> FTIR Study	9918	1992
Bondiotti, Gianluca C.	Einfluss ausgewählter Liganden auf die Auflösungskinetik von Lepidokrokit (γ -FeOOH)	9723	1992
Brüschweiler, Beat J.	Cytotoxicity and Interactions of Organotins and Heavy Metals with Cytochrome P4501A in Fish Hepatoma Cells	11413	1996
Bucheli, Thomas	Occurrence and Behaviour of Pesticides During Storm Water Infiltration	12414	1997
Deng, Yiwei	Formation and Dissolution of Aquatic Iron(III)(hydro)oxides – Implications for Redox Cycling of Iron in Natural Waters	9724	1992
Eberhard, Jürg	Kinetics and Mechanisms of the OH Radical Initiated Oxidation of Volatile Organic Compounds under Simulated Tropospheric Conditions	10889	1994
Escher, Beate	The Relationship between Membrane-Water Partitioning, Uncoupling, and Inhibitory Activity of Substituted Phenols in Chromatophores of <i>Rhodobacter Sphaeroides</i>	11283	1995
Fesch, Claudia	Transport of Organic Pollutants in Aggregated Porous Media: Effects of Nonlinear and Competitive Sorption under Saturated and Unsaturated Conditions	12225	1997
Friedl, Gabriela	Die Mineralogie des Mangankreislaufs in eutrophen Seen: eine Untersuchung mit EXAFS-Spektroskopie	10987	1995
Furger, Georg	Von der Geologie zum Stofftransportmodell	9356	1990
Glod, Guy	Cobalamin-Mediated Reductive Dehalogenation of Chlorinated Ethenes	12053	1997
Haderlein, Stefan B.	Die Bedeutung mineralischer Oberflächen für die Mobilität von substituierten Nitrophenolen und Nitrobenzolen in Böden und Grundwasser	9744	1992
Häner, Andreas	Aerobic Thermophilic Biodegradation of Bacterial Cells: Physiological Aspects	9885	1992
Hajdas-Skowronek, Irena	Extension of the Radiocarbon Calibration Curve by AMS Dating of Laminated Sediments of Lake Soppensee and Lake Holzmaar	10157	1993

Heijman, Cornelis G.	Reductive Transformation of Nitroaromatic Compounds under Iron-Reducing Conditions	11164	1995
Heitzer, Armin	Kinetic and Physiological Aspects of Bacterial Growth at Superoptimum Temperatures	9217	1990
Höhener, Patrick	Der Stickstoffhaushalt von Seen, illustriert am Beispiel des Sempachersees	9157	1990
Ibric, Slavica	Zur Adsorption von Metallkationen an Oxidoberflächen – die Wechselwirkung von Chrom(III) mit δ -Al ₂ O ₃	9216	1990
Jans, Urs	Radikalbildung aus Ozon in atmosphärischen Wassern – Einfluss von Licht, gelösten Stoffen und Russpartikeln	11841	1996
Jenal-Wanner, Ursula	Anaerobic Degradation of Nitrilotriacetate in a Denitrifying Bacterium: Purification and Characterization of the Nitrilotriacetate Dehydrogenase/Nitrate Reductase Enzyme Complex	9531	1991
Jucker, Barbara	Polymer Interactions and Bacterial Adhesion	12447	1997
Kari, Franz Günter	Umweltverhalten von Ethylendiamintetraacetat (EDTA) unter spezieller Berücksichtigung des photochemischen Abbaus	10698	1994
Kemmler, Judith	Biochemistry of Nitrilotriacetate Degradation in the Facultatively Denitrifying Bacterium TE11	9983	1992
Kiefer, Elke	Die Bindung von Kupfer an die Algenarten <i>Cyclotella cryptica</i> (Bacillariophyceae) und <i>Chlamydomonas reinhardtii</i> (Chlorophyceae)	10786	1994
Kipfer, Rolf	Primordiale Edelgase als Tracer für Fluide aus dem Erdmantel	9463	1991
Klausen, Jörg	Abiotic Redox Transformations of Aromatic Nitro and Amino Compounds in Suspensions of Soil Minerals: Laboratory Studies in Batch and Flow-Through Systems	11206	1995
Knauer, Katja	Interactions of Trace Metals (Cu, Nn, and Mn) with Freshwater Phytoplankton	11802	1996
Knobel, Hans-Rudolf	Genetic Study of Bacterial Nitrilotriacetate Degrading Enzymes	12146	1997
Kovarova, Karin	Growth Kinetics of <i>Escherichia coli</i> : Effect of Temperature, Mixed Substrate Utilization, and Adaption to Carbon-Limited Growth	11727	1996
Kramer, Johannes B.	Photodegradation of Fluorescent Whitening Agents in Sunlit Natural Waters	11934	1996
Kuhn, Annette	Arsen im eutrophen See: Eine Studie der saisonalen Redoxprozesse	9783	1992
Lendenmann, Urs	Growth Kinetics of <i>Escherichia coli</i> with Mixtures of Sugars	10658	1994
Lukadsczyk, Christian E.	³⁶ Chlor im Grönlandeis	10688	1994
Mason, Yael	Natural Manganese Oxides Associated with Metallogenium-like Particles as Scavengers of Metals in Lakes	11393	1996
Mengis, Martin	Nitrogen Elimination in Lakes by N ₂ and N ₂ O Emission	11927	1996
Nowack, Bernd	Behavior of EDTA in Groundwater – a Study of the Surface Reactions of Metal-EDTA Complexes	11392	1996
Ochs, Michael	Coordinative and Hydrophobic Interaction of Humic Substances with Aquatic Surfaces	9571	1991
Omlin, Daniela B.	Denitrifikation und Assimilation von Nitrat bei <i>Paracoccus denitrificans</i> : Untersuchungen zum Wechsel zwischen oxischen und anoxischen Bedingungen in kontinuierlicher Kultur	9348	1990
Perliger, Judith A.	Reduction of Polyhalogenated Alkanes by Electron Transfer Mediators in Aqueous Solution	10892	1994

Poiger, Thomas	Behavior and Fate of Detergent-Derived Fluorescent Whitening Agents in Sewage Treatment	10832	1994
Reiser, René	Occurrence and Fate of Detergent-Derived Alkylbenzenesulfonates in Recent Sediments	12098	1997
Ruf, Adrian	Reduktive Auflösung von Eisen(hydr)oxiden durch Ascorbat und Hydrochinone	9892	1992
Rutishauser Frei, Ruth	The Behaviour of the Various Cytochromes of <i>Paracoccus denitrificans</i> during Transitions between Oxidic and Anoxic Growth Conditions	9875	1992
Schäfer, Anke	Bacterial Transport and Pollutant Degradation: Influences of Air-Water Interfaces and Solid Surfaces	12416	1997
Schaller, Tobias L.	Redox-Sensitive Metals in Recent Lake Sediments Proxy-Indicators of Deep-Water Oxygen and Climate Conditions	11901	1996
Schlatter, Jürg W.	Schwefelhexafluorid als Tracer zum Studium von Mischungsprozessen in Seen	9596	1991
Schmidt, Christian	Isolation and Growth Physiology of <i>N,N</i> -Dimethylaniline and 2,4-Dimethylaniline Degrading <i>Sphingomonas</i> Species	10710	1994
Seefeld, Stephan	Laboratory Kinetic and Atmospheric Modelling Studies of the Role of Peroxyacyl Nitrates in Tropospheric Photo-Oxidant Formation	12235	1997
Semadeni, Marco	Hydroxyl Radical Reactions with Volatile Organic Compounds under Simulated Tropospheric Conditions: Tropospheric Lifetimes	10809	1994
Sinniger, Jürg	Die Inhibition der Auflösung von Eisen(III)(hydr)oxiden und ihre Beziehung zur Passivität von Eisen	9893	1992
Stoll, Jean-Marc	Fluorescent Whitening Agents in Natural Waters	12355	1997
Tien, Albert Jung	The Physiology of a Defined Four-Membered Mixed Bacterial Culture During Continuous Cultivation with Mixtures of Three Pollutants in Synthetic Sewage	11905	1997
Tremp, Josef	Sources and Fate of Nitrated Phenols in the Atmospheric Environment	9853	1992
Ütz, Thomas A.	Biochemistry of Nitrilotriacetate Degradation in Obligately Aerobic, Gram-Negative Bacteria	9722	1992
Ulrich, Markus	Modeling of Chemicals in Lakes – Development and Application of User-Friendly Simulation Software (MASAS & CHEMSEE) on Personal Computers	9632	1991
Voelker-Bartschat, Bettina	Iron Redox Cycling in Surface Waters: Effects of Humic Substances and Light	10901	1994
von Piechowski, Albertus M.J.	Der Einfluss von Kupferionen auf die Redoxchemie des atmosphärischen Wassers. Kinetische Untersuchungen	9512	1991
von Schulthess, Reto	Die Emission von Lachgas (NO ₂) in denitrifizierenden Belebungsanlagen	10790	1994
Weidenhaupt, André N.J.	Trialkylzinnverbindungen: Spezifizierung im Oktanol/Wasser-System, Sorption an Mineraloberflächen	10940	1995
Weissmahr, Kenneth	Mechanism and Environmental Significance of Electron Donor Acceptor Interactions of Nitroaromatic Compounds with Clay Minerals	11631	1996
Wersin, Paul	The Fe(II)-CO ₂ -H ₂ O System in Anoxic Natural Waters: Equilibria and Surface Chemistry	9230	1990
Zou, Yuegang	Photochemistry of Iron(III)/Iron(II) Complexes in Atmospheric Liquid Phases and its Environmental Significance – Formation of Hydrogen Peroxide and Oxidation of Oxalic Acid and Other Atmospheric Pollutants	9727	1992