PD Dr. Elisabeth Marie-Louise Janssen

Research Group Leader | DEPARTMENT OF ENVIRONMENTAL CHEMISTRY

EAWAG, Swiss Federal Institute of Aquatic Science and Technology | Überlandstrasse 133, 8600 Dübendorf, Switzerland
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Research Focus: Environmental Chemistry and Effects of Biomolecules

- Natural Toxins, Peptide-based Pharmaceuticals, Aquatic Enzymes
- Environmental fate processes, Photochemistry, Oxidative and Enzymatic Transformations
- Mass Spectrometry, Site-Specific Molecular Damage, reference data(base) curation

Current appointments

Deputy Head of Department of Environmental Chemistry, Eawag (*CH*)	**04/2023-present**
Research Group Leader in Dept. of Environmental Chemistry, Eawag (*CH*)	**07/2016-present**
Lecturer in Dept. of Environmental Systems Science, ETH Zürich (CH)	**02/2012-present**
Board Member of Water Chemistry Division of the German Chemistry Society (GDCh)	**2023-present**
Editorial Advisory Board Member for Environmental Science & Technology	**2021-present**
Vice president of the Swiss Society of Mass Spectrometry (SGMS)	**2020-present**

Past appointments

Senior Scientist	Environmental Chemistry, ETH Zürich (*CH*)	2014-2016
Postdoctoral Associate	Dept. of Environmental Systems Science, ETH Zürich (CH)	2012-2014
Postdoctoral Associate	Dept. of Civil & Env. Engineering, Stanford University *(USA, CA)* and Natural History Museum London *(UK)*	2011

Education

P.D.	**Private docent, ETH, Dept. Environmental Systems Sciences** Habilitation Thesis: Environmental Chemistry of Biomolecules	2022
Ph.D.	**Environmental Science and Engineering** Dept. of Civil & Environmental Engineering, Stanford University (USA, CA) Thesis Title: *Measurement and modeling of polychlorinated biphenyl availability from contaminated sediment and evaluation of ecosystem recovery.* Advisor: Prof. R.G. Luthy.	2010
M.Sc.	**Environmental Science and Engineering**, Stanford University *(USA, CA)*	2007
B.Sc.	**Water Sciences: Chemistry, Analytics, & Microbiology** Universität Duisburg-Essen (*Germany*)	2005

Project Management and Research Grants

2026-2028	**Discretionary Fund by Eawag** | Role: PI *Knowledge base for Benthic cyanobacteria in Switzerland.*	**339'724 CHF**
2024-2028	**SNF** | IZCCZ0-223136/1| Role: Co-PI | Relational accountability – Water security and climate change	**243'756 CHF**
2021-2026	**SNF Sinergia**| CRSII5_202290 |Role: Co-PI| Eawag, University Fribourg *Why do toxic cyanobacteria bloom? – A gene to ecosystem approach.*	1'781'682 CHF
2021-2026	**Blue-Green-Biodiversity** ETH Board | CyanoLichen| Role: Co-PI with WSL *Blue-Green Cyanobacteria: Diversity, Toxins and alpine Tourism.*	480'000 CHF
2023-2025	**InnoSuisse** | Role: Co-PI | Cyanotoxin BioSensor technology development	206'831 CHF
2022-2025	**Research Grant | WVZ & Eawag funding**| $CyanO_3$| Role: Co-PI *Cyanopeptides during water treatment with ozone*	521'000 CHF
2022-2023	**LéXPLORE Grant**| CyanoSense| Role: collaborator *Remote sensing and risk assessment of toxic cyanobacteria in Lake Geneva.*	40'000 CHF
2021-2022	**LéXPLORE Grant**| CyanoFun| Role: collaborator *Diversity, functioning & toxin production of cyanobacteria in Lake Geneva.*	30'000 CHF
2019-2021	**Discretionary Fund by Eawag** | Natural Toxins| Role: PI	248'000 CHF

	Analytical methods and occurrence of cyanopeptides beyond microcystins.	
2017-2020	Marie Sklodowska-Curie Actions | *EU ITN #722493*| Role: Co-PI *Natural Toxins and Drinking Water Quality: From Source to Tap. (NaToxAq)*	325'000 EUR
2015-2019	Swiss National Science Foundation | *SNSF #200020-159809* *Environmental photochemistry of amino acid-based biomolecules.* Role: Co-PI *with K. McNeill (ETH),* advisor for 1 of 2 PhD students	571'739 CHF
2015-2019	Swiss National Science Foundation | *SNSF #200021-15198* *Electron transfer properties of photoexcited natural organic matter.* Role: Collaborator *with K. McNeill (ETH),* advisor for 1 of 2 PhD students	524'692 CHF

Teaching and Supervision

Ecotoxicology	ETH Zürich (*CH*), M.Sc., 24hrs, No. 701-1312-00	2013-present
Environmental Chemistry	Univ. Zürich (CH), B.Sc., 2hrs, No CHE 104	2018-2021
Environmental Organic Chemistry	ETH Zürich (*CH*), M.Sc., 8hrs, No 701-1314-00	2017
Env. Organic Chemistry	ETH Zürich (*CH*), B.Sc., 18hrs	2014
Chemistry II Tutorial	ETH Zürich (*CH*), B.Sc., 10hrs	2014

Doctoral student (* indicating students who already graduated successfully)

Luan de Oliveira Silva	*Cyanobacteria response to oxidative stress (visiting from UFRJ, Brazil)*	2026-2027
Simon Grundmüller	*Benthic cyanobacteria and toxin and metabolite production dynamics*	2025-2029
Larissa Passos	*Toxicity in Zebrafish of cyano-metabolites (visiting from USP, Brazil)*	2024-2025
Juliana Oliveira	*Lichenomics – cyanobacterial toxins of lichen in the Alps*	2022-2026
Xuejian Wang*	*Toxins and bioactive metabolites that define CyanoHABs*	2022-2026
Antonella Miglione	*LCMS suspect screening of Cyanotoxins (visiting from Uni. Naples, IT)*	2023
Mariana Torres*	*Toxicity in Zebrafish of cyano-metabolites (co-advisor, USP, Brazil)*	2021-2023
Regiane S. Natumi*	*Production dynamics and fate processes of cyanobacterial peptides*	2017-2021
Daria Filatova*	*Natural Toxins across climate gradients (co-advisor, Univ. Barcelona)*	2019-2021
Christine M. Egli*	*Assessing the stability of aquatic extracellular enzymes*	2015-2019
Caroline A. Davis*	*Photochemical oxidation mechanisms of selected drugs*	2015-2019

Postdoctoral Researcher and Senior Scientists

Dr. Sungeun Lim	*Reaction kinetics for chlorination of heterocycles*	2025-2026
Dr. Valentin Rougé	*CyanO$_3$: Advanced treatment of emerging cyanotoxins*	2022-2026
Dr. Oliver Brandenberg	*Toxin-sensor based on Aptamer/CRISPRs technology*	2022-2025
Dr. Francesca Pittino	*Genetic diversity of cyanobacterial lichen in the Alps*	2021-2023
Dr. Chris Sarnowski	*Site-Specific damage in oxygensases (co-PI)*	2021-2022
Dr. Martin Jones	*Analytical methods in cyanobacterial metabolomics*	2019-2021

Scientific Research staff

Kim Luong	*Communication of toxic cyanobacteria to various audiences*	2025-2027
Anita Lopes	*Analysis of cyanobacterial Toxins*	2025-2026
Daniela Martens	*Mobilization of Cyanotoxins from Lichen in Alps*	2024
Anne Dax	*CyanO$_3$: Advanced treatment of emerging cyanotoxins*	2022-2024
Simon Wullschleger	*Toxins and bioactive metabolites that define CyanoHABs*	2022-2024

M.Sc. and B.Sc. thesis student

Isabelle Teufer	*M.Sc.*	Growth and metabolite dynamics of benthic cyanobacteria	2026
Elena Lippuner	*B.Sc.*	Interaction of cyanopeptide with aquatic enzyme functions	2025
Tobias Duft	*M.Sc.*	Cyanotoxins and their mobilization from Lichen in Swiss Alps	2024
Anita Lopes	*M.Sc.*	Transformation product pathways of emerging cyanopeptides	2024
Andrea Ingold	*M.Sc.*	Biotransformation of cyanopeptides *(*publication #42)*	2023
Christoph Dieziger	*B.Sc.*	Reaction kinetics of cyanopeptides *(*publication #28)*	2020
Elizabeth Kitching	*M.Sc.*	*Analysis of abiotic transformation of micropollutants (co-advised)*	2019
Julian Bosshard	*M.Sc.*	*Cyanobacterial metabolites in Swiss surface waters*	2019
Sandro Marcotullio	*M.Sc.*	*Phototransformation of natural toxins (*publication #24)*	2019

Simon Wullschleger	*M.Sc.*	*Tracing site-specific modifications in extracellular enzymes*	2018
Judith Riedo	*M.Sc.*	*Biodegradability of veterinary antibiotics in surface waters*	2017
Anne Dax	*M.Sc.*	*Photochemical Stability of veterinary antibiotics in surface waters*	2017
Evelyne Vonwyl	*M.Sc.*	*Production, Identification and Stability of Cyanotoxins*	2017
Alexandra Büchler	*M.Sc.*	*Environmental photoinactivation kinetics of extracellular glucosidase*	2016
Ladina Birolini	*B.Sc.*	*Photochemical transformation of anti-inflammatory drugs*	2016
Evelyn Mühlhofer	*B.Sc.*	*Photochemical decay of veterinary drugs in aquaculture waters*	2015
Remo Röthlin	*B.Sc.*	*Photochemical reactivity of Diphenylamines*	2015
Joanna Houska	*B.Sc.*	*Envi. photoinactivation kinetics of extracellular aminopeptidase*	2015
Emily Marron	*M.S.*	*Photochemical degradation of pollutants (*publication #13)*	2014
Hannah Bruderer	*B.Sc.*	*Influence of UVB light and humic acids on alk. phosphatase activity*	2012
Jaqueline Augusiak	*M.Sc.*	Polychlorinated Biphenyl accumulation in benthic invertebrates	2008

Awards and Scholarships

Young Investigator Recognition by Environmental Science & Technology, Virtual issue	2019
Outstanding Reviewer for Environmental Science: Processes & Impacts	2017
Best Poster Award: Gordon Research Conference: Water	2014
Best Poster Award: SedNet Conference, Hamburg	2009
Fellowship for Graduate Studies, Stanford University	2006-2007
DAAD Scholarship and **Henkel (KGaA) Bachelor Award** and for B.Sc. Thesis	2005

Services

Regular peer-Reviewer: Environmental Science and Technology, Water Research, Environment Science Processes and Impacts, several other journals on less regular basis.
Evaluator for doctoral dissertation: Martina Kalt UZH (2026), Natalie Wichmann, University Vienna (2025) – Sahar Naim, ETH Zurich, Switzerland (2024) – Sarah Partanen, ETH Zurich, Switzerland (2022) – Massimo Picardo, University Barcelona, Spain (2021) – Libor Jaša, Masaryk University, Czech Republic (2020) – Yi Cai, Aarhus University, Denmark (2019)
Evaluator for Tenure Track academic position: University of Natural Resources and Life Sciences Vienna – BOKU (2025), The Czech Academy of Science (2023)
Research Proposal Reviewer: Czech Science Foundation (2021) – AquaticPollutants Joint Transnational Call Europe (2020/2021) – Natural Sciences and Engineering Research Council of Canada (2021/2022)

List of Publications

Corresponding authors are indicated with *. Researchers directely advised by Janssen are underlined.

Peer-reviewed Journal Articles

48. Oliver F Brandenberg*, Elisabeth M-L Janssen*, Olga T Schubert. A critical assessment of aptamer and CRISPR-Cas12a-based biosensors for small molecule detection. ***npj Biosensing, vol. 3, article number 28, 2026, open access,*** https://doi.org/10.1038/s44328-026-00089-8.
47. Franziska Schanbacher, Anne Dax, Michele Stravs, Timo H.J. Niedermeyer, Elisabeth M.-L. Janssen*. Curation of mass spectrometry reference data for improved identification and dereplication of cyanobacterial metabolites. *Journal of Natural Products*, 89 (5), **2026**, ***open access,*** https://doi.org/10.1021/acs.jnatprod.6c00107.
46. Simon Sieber*, Elisabeth M.-L. Janssen*. Highlights of cyanobacterial metabolites reported between 2021-2024. *Natural Product Reports, 43 (5), pp. 1008-1025,* ***2026, open access,*** *https://doi.org/10.1039/D5NP00076A*.
45. Larissa Souza Passos, Melissa von Wyl, Elisabeth M.-L. Janssen, Daniv Lopez Rodriguez, Ernani Pinto, Colette vom Berg. Mixture toxicity of guanitoxin and organophosphates in zebrafish: From developmental and neurobehavioral phenotypes to transcriptomic responses, *Environmental Science and Technology,* ***Environmental Science and Technology, 60 (12), pp. 9076–9092, 2026, open access,*** https://doi.org/10.1021/acs.est.5c16673.
44. Valentin Rouge, Anne Dax, Oliver Köster, Urs von Gunten, Elisabeth M.-L Janssen*. Degradation of toxins and metabolites of cyanobacteria and micropollutants during biological sand filtration.

Environmental Science & Technology, 60 (12), pp. 9647–9659, ***2026, open access,*** *https://doi.org/10.1021/acs.est.5c16532*.

43. Pinelopi Ntetsika, Salomé Stauffer, Stefanie Eyring, Marta Reyes, Xuejian Wang, Elisabeth Janssen, Francesco Pomati*. Zooplankton feeding behaviour and survival to toxic and non-toxic cyanobacteria during the seasonal bloom progression of a eutrophic lake. *Harmful Algae,* 154 (p. 103045), **2026**, ***open access***, https://doi.org/10.1016/j.hal.2025.103045
42. Xuejian Wang, Andrea Ingold, Elisabeth M.-L. Janssen*. Biotransformation dynamics and products of cyanobacterial secondary metabolites in surface waters. *Environmental Science and Technology*, ***59 (****38), pp. 20726–20737,* ***2025, open access****, https://doi.org/10.1021/acs.est.5c09247*.
41. Juliana Oliveira, Franecsca Pittino, Christoph Scheidegger, Sabine Fink*, Elisabeth M.-L. Janssen*. Genetic and metabolic diversity of cyanobacteria on the rock-water interface in mountainous ecosystems. *Environmental Science and Technology,* 59 (38), pp. 20595–20607, ***2025,*** **open access,** *https://doi.org/10.1021/acs.est.5c05763*.
40. Niveen Ismail, Paul Seguin, Elisabeth M.L. Janssen, Tamar Kohn, Bas W. Ibelings, Anna Carratalà*. Seasonality of cyanobacteria and eukaryotes in Lake Geneva and the impacts of cyanotoxins on growth of the model ciliate *Tetrahymena pyriformis*. *Aquatic Toxicology*, Vol. 279, p. 107262, **2025, open access**, https://doi.org/10.1016/j.aquatox.2025.107262.
39. Franecsca Pittino, Sabine Fink, Juliana Oliveira, Elisabeth M.-L. Janssen, Christoph Scheidegger*. Lithic bacterial communities: ecological aspects focusing on *Tintenstrich communities. Frontiers in Microbiology, Vol. 15, p. 1-12,* ***2024, open access****, https://doi.org/10.3389/fmicb.2024.1430059*.
38. **Janssen, Elisabeth M.-L.*, Jones, Martin R., Pinto, Ernani, Torres, Mariana, Dörr, Fabiane**, Rios Jacinavicius, Fernanda, Mazur-Marzec, Hanna, Szubert, Kaarina, Konkel, Robert, Tartaglione, Luciana, Dell'Aversano, Carmen, Miglione, Antonella, Beach, Daniel G., McCarron, Pearse, Miles, Christopher O., Sivonen, Kaarina, Fewer, David P., Jokela, Jouni, Wahlsten, Matti, Niedermeyer, Timo H.J., Schanbacher, Franziska, Leão, Pedro, Preto, Marco, D'Agostino, Paul M., Baunach, Martin, Dittmann, Elke, Reher, Raphael, Simon Sieber. CyanoMetDB - Comprehensive database of secondary metabolites from cyanobacteria. Dataset Version03, Zenodo deposition S75, **2024**, **open access** https://doi.org/*10.5281/zenodo.13854577*.
37. Till Steiner, Franziska Schanbacher, Wolfram Lorenzen, Heike Enke, Elisabeth M.-L. Janssen, Timo H.J. Niedermeyer, Karl Gademann*. UV-Vis Absorbance spectra, molar extinction coefficients and circular dichroism spectra for the two cyanobacterial metabolites Anabaenopeptin A and Anabaenoepeptin B. *Data in Brief*, *(57), p. 110914,* **2024, open access**, https://doi.org/10.1016/j.dib.2024.110914.
36. ***Xuejian Wang***, Simon Wullschleger, Martin Jones, Marta Reyes, Raphael Bossart, Francesco Pomati, Elisabeth M.-L. Janssen*. Tracking cyanotoxins in five-year lake survey and identifying indicator metabolites of cyanobacterial taxa. *Environmental Science and Technology*, **2024, *open access***. https://doi.org/10.1021/acs.est.4c04813.
35. Valentin Rouge, Urs von Gunten*, Elisabeth M.-L Janssen*. Reactivity of cyanobacteria metabolites with ozone: Multi-compound competition kinetics. *Environmental Science and Technology*, 58, 11802−11811, **2024, *open access***. https://doi.org/10.1021/acs.est.4c02242
34. Mariana de Almeida Torres, Anne Dax, Ingrid Grand, Colette vom Berg, Ernani Pinto, Elisabeth M.-L Janssen*. Lethal and behavioral effects of microcystins, micropeptin and apolar compounds from cyanobacteria on freshwater microcrustacean *Thamnocephalus platyurus. Aquatic Toxicology*, Vol. 273, 106983, **2024, *open access***. https://doi.org/10.1016/j.aquatox.2024.106983
33. **Janssen, Elisabeth M.-L., Jones, Martin R., Pinto, Ernani, Torres, Mariana, Dörr, Fabiane**, Rios Jacinavicius, Fernanda, Mazur-Marzec, Hanna, Szubert, Kaarina, Konkel, Robert, Tartaglione, Luciana, Dell'Aversano, Carmen, Miglione, Antonella, Beach, Daniel G., McCarron, Pearse, Miles, Christopher O., Sivonen, Kaarina, Fewer, David P., Jokela, Jouni, Wahlsten, Matti, Niedermeyer, Timo H.J., Schanbacher, Franziska, Leão, Pedro, Preto, Marco, D'Agostino, Paul M., Baunach, Martin, Dittmann, Elke, Reher, Raphael, CyanoMetDB - Comprehensive database of secondary metabolites from cyanobacteria. Dataset Version02, Zenodo deposition S75, **2023**, https://doi.org/10.5281/zenodo.7922070
32. Mariana de Almeida Torres, Martin R. Jones, Colette vom Berg, Ernani Pinto, Elisabeth M.-L Janssen*. Lethal and sublethal effects towards zebrafish larvae of microcystins and other cyanopeptides produced by cyanobacteria. *Aquatic Toxicology*, Vol. 263, 106689, **2023,** https://doi.org/10.1016/j.aquatox.2023.106689. OPEN ACESSS.

31. Carolin Seller, Laura Varga, Elizabeth Börgardts, Bernadette Vogler, Elisabeth Janssen, Heinz Singer, Kathrin Fenner*, Mark Honti. Do biotransformation data from laboratory experiments reflect micropollutant degradation in a large river basin? *Water Research* (235) pp. 119908, **2023, open access.** https://doi.org/10.1016/j.watres.2023.119908
30. Francesca Pittino, Juliana Oliveira, Mariana DeAlmeida Torres, Sabine Fink, Elisabeth M.L. Janssen, Christoph Scheidegger*. Cyanobacteria: Extreme Environments and Toxic Metabolites. , *CHIMIA*, 76, pp. 967–969,**2022, *open access*.** https://doi.org/10.2533/chimia.2022.967
29. Jones M. R., **Janssen** E.M.-L.* Quantification of multi-class cyanopeptides in Swiss lakes with automated extraction, enrichment and analysis by online-SPE HPLC-HRMS/MS. *CHIMIA*,76, No 1/2, **2022**, ***open access***. https://doi.org/10.2533/chimia.2022.1
28. Natumi R.S., Dieziger Chr., **Janssen** E.M.-L.* Cyanobacterial toxins and cyanopeptide transformation kinetics by singlet oxygen and pH-dependence in sunlit surface waters. *Environmental Science and Technology, 55(22), pp. 15196–15205,* ***2021, open access.*** https://doi.org/10.1021/acs.est.1c04194
27. van Santen J. A., Poynto E., Iskakova D., McMann E., Alsup T., Clark T., Fergusson C., Fewer D., Hughes, A., McCadden C., Parra Villalobos J., Soldatou S., Rudolf J, **Janssen** E.M.-L., Duncan K., Linington R.* The Natural Products Atlas 2.0: a database of microbially-derived natural products. *Nucleic Acid Research, gkab941*, ***2021, open access.*** https://doi.org/10.1093/nar/gkab941
26. Jones M. R., Pinto E., Torres M. A., Dörr F., Mazur-Marzec H., Szubert K., Tartaglione L., Dell'Aversano C., Miles Ch. O., Beach D. G., McCarron P., Sivonen K., Fewer D. P., Jokela J., **Janssen** E. M.-L.* CyanoMetDB, a comprehensive database of secondary metabolites from cyanobacteria. *Water Research* (196) 117017. **2021, *open access.*** https://doi.org/10.1016/j.watres.2021.117017
25. Filatova D., Jones M. R., Haley J., Núñez O., Farré M., **Janssen** E.M.-L.* Cyanobacteria and their secondary metabolites in three freshwater reservoirs in the United Kingdom. *Environmental Sciences Europe, 33 (29),* ***2021, open access.*** https://doi.org/10.1186/s12302-021-00472-4
24. Natumi R.S., Marcotullio S., **Janssen** E.M.-L.* Phototransformation kinetics of cyanobacterial toxins and secondary metabolites in surface waters. *Environmental Sciences Europe 33(26),* ***2021, open access.*** https://doi.org/10.1186/s12302-021-00465-3
23. Egli C.M., Stravs M.A., **Janssen** E.M.-L.* Inactivation and site-specific oxidation of aquatic extracellular enzymes by singlet oxygen. *Environmental Science and Technology, 54(22), pp. 14403-14412,* ***2020***. *https://doi.org/10.1021/acs.est.0c04696*.
22. Kiefer K., Bader T., Minas N., Sahli E., Wiget R., **Janssen** E.M.-L., von Gunten U., Hollender J.* Chlorothalonil Transformation Products in Drinking Water Resources: Widespread and Challenging to abate. *Water Research*, 183, pp. 116066, **2020**. https://doi.org/10.1016/j.watres.2020.116066
21. Natumi R.S., Jones M., **Janssen** E.M.-L.* Production dynamics of cyanobacterial peptides by *Microcystis aeruginosa* and *Dolichospermum flos-aquae*. *Environmental Science and Technology, 54(19), pp. 6063-6072,* ***2020, open access.*** https://doi.org/10.1021/acs.est.9b07334
20. Egli C.M., Natumi R.S., Jones M., **Janssen** E.M.-L.* Inhibition of aquatic extracellular enzymes by cyanobacterial metabolites. *CHIMIA* 74(3), pp. 122-128, **2020 *open access***. https://doi.org/10.2533/chimia.2020.122
19. Davis C.A. and **Janssen** E.M.-L.* Environmental Fate Processes of Antimicrobial Peptides Daptomycin, Bacitracin, and Polymyxins. *Environment International*, 134, **2020, *open access.*** https://doi.org/10.1016/j.envint.2019.105271
18. **Janssen** E. M.-L.*. Cyanobacterial Peptides beyond Microcystins: A review on co-occurrence, toxicity, and challenges for risk assessment. *Water Research* 151, pp. 488-499, **2019 *open access***. doi.org/10.1016/j.watres.2018.12.048
17. Davis C.A., McNeill K.*, **Janssen** E.M.-L.* Non-singlet oxygen kinetic solvent isotope effect in aquatic photochemistry. *Environmental Science and Technology*, 17, pp. 9908-9916, **2018, *open access***. https://doi.org/10.1021/acs.est.8b01512
16. Egli C.M. and **Janssen** E.M.-L.* Proteomics approach to trace site-specific damage in aquatic extracellular enzymes during photoinactivation. *Environmental Science and Technology*, 52 (14), pp. 7671-7679, **2018, *open access***. https://doi.org/10.1021/acs.est.7b06439
15. Schiessl K., **Janssen** E.M.-L., Kreamer S., McNeill K., Ackermann M.* Magnitude and Mechanism of Siderophore-Mediated Competition at Low Iron Solubility in the Pseudomonas aeruginosa Pyochelin System. *Frontiers of Microbiology*, **2017, *open access***. https://doi.org/10.3389/fmicb.2017.01964

14. Davis C.A., Erickson P.R., McNeill K.*, **Janssen** E.M.-L.* Environmental Photochemistry of Fenamate NSAIDs and their Radical Intermediates. *Environmental Science: Processes and Impacts*, 24;19(5), pp. 656-665, **2017**. https://doi.org/10.1039/C7EM00079K.
13. **Janssen** E.M.-L., Marron E., McNeill K.* Aquatic photochemical kinetics of benzotriazole and structurally related compounds. *Environmental Science: Processes and Impacts*, 17, pp. 939-946, **2015**. https://doi.org/10.1039/C5EM00045A.
12. **Janssen** E.M.-L. and McNeill K.* Environmental photooxidation of extracellular phosphatase and the effects of dissolved organic matter. *Environmental Science and Technology*, 49 (2), pp. 889-896, **2015**. https://doi.org/10.1021/es504211x
11. **Janssen** E.M.-L., Erickson P.R., McNeill K.* Dual roles of dissolved organic matter as sensitizer and quencher in the photooxidation of tryptophan. *Environmental Science and Technology*, 48(9), pp. 4916-24, **2014**. https://doi.org/10.1021/es500535a
10. Lundeen R.A., **Janssen** E.M.-L., Chu C., McNeill K.* Environmental photochemistry of amino acids, peptides and proteins. *Chimia*, 68 (11), pp. 814-817, **2014** ***review article***. https://doi.org/10.2533/chimia.2014.812
9. Thomas C., Lampert D., **Janssen** E.M.-L., Luthy R.G., Reible D.* Remedy performance monitoring at contaminated sediment sites using profiling solid phase microextraction (SPME) polydimethylsiloxane (PDMS) fibers. *Environmental Science: Processes and Impacts*, 16, pp. 445-452, **2014**. https://doi.org/10.1039/C3EM00695F.
8. **Janssen** E.M.-L.*, Beckingham B. Biological response to activated carbon amendments in sediment remediation. *Environmental Science and Technology*, 7(14), pp. 4916-24-2863, **2013, *review article***. https://doi.org/10.1021/es401142e
7. **Janssen** E.M.-L., Choi Y., Luthy R.G.* Assessment of non-toxic, secondary effects of sorbent amendment to sediment on the deposit-feeding organism *Neanthes arenaceodentata*. *Environmental Science and Technology*, 46 (7), pp. 4134-4141,**2012**. https://doi.org/10.1021/es204066g
6. **Janssen** E.M.-L., Thompson J.K., Luoma S.N., Luthy R.G.* PCB-induced changes of a benthic community and expected ecosystem recovery following in-situ sorbent amendment. *Environmental Toxicology and Chemistry*, 30(8), pp. 1819-26, **2011**. https://doi.org/10.1002/etc.574
5. Oen A.M.P., **Janssen** E.M.-L., Cornelissen G., Breedveld G., Eek E., Luthy R.G.* In-situ measurement of PCB pore water concentration profiles in activated carbon-amended sediment using passive samplers. *Environmental Science and Technology*, 45 (9), pp 4053-4059, **2011**. https://doi.org/10.1021/es200174v
4. **Janssen** E. M.-L., Oen A.M.P., Luoma S. N., Luthy R. G.* Assessment of field-related influences on polychlorinated biphenyl exposures and sorbent amendment using polychaete bioassays and passive sampler measurement. *Environmental Toxicology and Chemistry*, 30 (1), pp. 173-180, **2011**. https://doi.org/10.1021/es901632e
3. **Janssen** E.M.-L., Croteau M.-N., Luoma S.N., Luthy R.G.* Measurement and modeling of polychlorinated biphenyl bioaccumulation from sediment for the marine polychaete *Neanthes arenaceodentata* and response to sorbent amendment. *Environmental Science and Technology*, 44, pp. 2857-2863, **2010**. https://doi.org/10.1021/es901632e
2. Rhoads K.R., **Janssen** E.M.-L., Luthy R.G., Criddle C.S.* Aerobic Biotransformation and Fate of N-Ethyl Perfluorooctane Sulfoneamidoethanol (N-EtFOSE) in Activated Sludge. *Environmental Science and Technology*, 42, pp. 2873–2878, **2008**. https://doi.org/10.1021/es702866c
1. Susanto H., Arafat H., **Janssen** E.M.-L., Ulbricht M.* Ultrafiltration of polysaccharide-protein mixtures: Elucidation of fouling mechanisms and fouling control by membrane surface modification. *Separation and Purification Technology*, 63 (3), pp. 558-565, **2008.** https://doi.org/10.1016/j.seppur.2008.06.017

Book Chapters

Francesca Pittino, Elisabeth Janssen, Christoph Scheidegger. *Welche ökologische Rolle spielen Tintenstrich-Gemeinschaften? in «Biodiversität zwischen Wasser und Land. Exkursionen zu Gewässern, Mooren und Auen der Schweiz.»* Altermatt, Güsewell, Holdergger., **2024**, ISBN: 978-3-258-08368-1

Cho Y.-M., Werner D., **Janssen** E.M.-L., Luthy R.G. In Situ Treatment for Control of Hydrophobic Organic Contaminants Using Sorbent Amendment: Theoretical Assessments. in *"Processes, Assessment and Remediation of Contaminated Sediments"*. SERDP ESTCP Environmental Remediation Technology, Volume 6, pp. 305-323, **2014.** DOI 10.1007/978-1-4614-6726-7.