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Education

1992 Ph.D. from the Department of Environmental Science and Engineering,
Technical University of Denmark (DTU), Lyngby

1988 Master of Science from the Faculty of Chemical Engineering
Technical University of Denmark (DTU), Lyngby

Professional Experience

- 2018 - Member of the external advisory board of the Water Institute, University of Waterloo
- 2017 - Adjunct Professor at DTU Environment, Technical University of Denmark (DTU)
- 2016 - Member of the advisory board for the School of Life Sciences FHNW, University of Applied Sciences and Arts Northwestern Switzerland
- 2014 - Member of the advisory board for the Department for Natural Resource Sciences (IUNR), School of Life Science and Facility Management, ZHAW, Switzerland
- 2014 - Member of Eawag directorate
- 2013 - 2014 Guest professor at DTU Environment, Technical University of Denmark (DTU)
- 1999 - Group leader at Eawag (Dept. of Urban Water Management)
- 2011 - 2014 PI of the project *Blue Diversion* financed by the Bill & Melinda Gates Foundation
- 2000 - 2006 PI of the transdisciplinary project *Novaquatis*, Eawag
- 1995 - 2003 Lecturer at ETH for process engineering and water pollution control
- 1995 - 2001 Senior research associate at ETHZ, Chair of Urban Water Management
- 1992 - 1999 Head of teaching support, Chair of Urban Water Management, ETHZ
- 1992 - 1995 Research associate at ETHZ, Chair of Urban Water Management
- 1988 - 1992 Research and teaching assistant at DTU Environment, Technical University of Denmark

Major Research Areas

- o Concepts of sustainable urban water management
- o Source separation for wastewater management
- o Decentralized technologies for wastewater treatment

Awards

Blue Diversion 2014 (www.bluediversiontoilet.com)

Project Innovation Awards from the International Water Association

- Europe and West Asia: *Winner*
- Global: *Grand Honor Award*

Reinvent The Toilet Challenge 2012 (www.bluediversiontoilet.com)

Special recognition for outstanding design of a toilet user interface from the Bill & Melinda Gates Foundation for the Eawag/EOOS project 'diversion for safe sanitation'

td-award 2008 (www.novaquatis.eawag.ch)

The swiss-academies award for transdisciplinary research 2008 was given to the project Novaquatis for its visionary, innovative and integrative approach to urban water management.

Publications in peer-reviewed journals

Hadengue, B., Morgenroth, E. and Larsen, T.A. (2022) Screening innovative technologies for energy-efficient domestic hot water systems. *Journal of Environmental Management* 320(4):115713. <https://doi.org/10.1016/j.jenvman.2022.115713>

Hadengue, B., Morgenroth, E. and Larsen, T.A. (2022) How to get your feet wet: Integrating urban water and building engineering for low-energy domestic hot water systems. *Energy and Buildings* 27115, 112318. <https://doi.org/10.1016/j.enbuild.2022.112318>

Hadengue, B., Morgenroth, E., Larsen, T.A. and Baldini, L. (2022) Performance and dynamics of active greywater heat recovery in buildings. *Applied Energy* 305, 117677. <https://doi.org/10.1016/j.apenergy.2021.117677>

Larsen, T. A., Riechmann, M.E. and Udert, K.M. (2021) State of the art of urine treatment technologies: A critical review. *Water Research X* **13**, 100114. <https://doi.org/10.1016/j.wroa.2021.100114>

Hadengue, B., Joshi, P., Figueroa, A., Larsen, T.A. and Blumensaat, F. (2021) In-building heat recovery mitigates adverse temperature effects on biological wastewater treatment: a network-scale analysis of thermal-hydraulics in sewers. *Water Research* **204**, 117552. <https://doi.org/10.1016/j.watres.2021.117552>

Larsen, T.A., Gruendl, H. and Binz, C. (2021). The potential contribution of urine source separation to the SDG agenda - a review of the progress so far and future development options. *Environmental Science: Water Research and Technology*, **7**(7), 1161-1176. <https://doi.org/10.1039/D0EW01064B>

Cook, L.M. and Larsen, T.A. (2021) Towards a performance-based approach for multifunctional green roofs: an interdisciplinary review. *Building and Environment* **188**, 107489. <https://doi.org/10.1016/j.buildenv.2020.107489>

Gundlach, J.; Bryla, M.; Larsen, T. A.; Kristoferitsch, L.; Gründl, H.; Holzner, M. (2021) Novel NoMix toilet concept for efficient separation of urine and feces and its design optimization using computational fluid mechanics. *Journal of Building Engineering*, **33**, 101500, <https://doi.org/10.1016/j.jobe.2020.101500>

Hoffmann, S., Feldmann, U., Bach, P. M., Binz, C., Farrelly, M., Frantzeskaki, N., Hiesl, H., Inauen, J., Larsen, T. A., Lienert, J., Londong, J., Lüthi, C., Maurer, M., Mitchell, C., Morgenroth, E., Nelson, K. L., Scholten, L., Truffer, B., & Udert, K. M. (2020). A research agenda for the future of urban water management: exploring the potential of non-grid, small-grid, and hybrid solutions. *Environmental Science and Technology*, **54**(9), 5312-5322. <https://doi.org/10.1021/acs.est.9b05222>

Hadengue, B., Scheidegger, A., Morgenroth, E. and Larsen, T. A. (2020). Modeling the water-energy nexus in households. *Energy and Buildings*, **225**, 110262. <https://doi.org/10.1016/j.enbuild.2020.110262>

Harder, R., Wielemaker, R., Larsen, T.A., Zeeman, G. and Öberg, G. (2019) Recycling nutrients contained in human excreta to agriculture: Pathways, processes, and products. *Critical Reviews in Environmental Science and Technology*. <https://doi.org/10.1080/10643389.2018.1558889>

Schmitt, R., Morgenroth, E. and Larsen, T.A. (2017) Robust planning of sanitation services in informal urban settlements: An analytical framework. *Water Res.* **110**, 297-312.

Tobias, R., O'Keefe, M., Künzle, R., Gebauer, H., Gründl, H., Pronk, W., Morgenroth, E. and Larsen, T.A. (2017) Early testing of new sanitation technology for urban slums: the case of the Blue Diversion Toilet. *Sci. Total Environ.* **576**, 264–272.

Larsen, T.A., Hoffmann, S., Lüthi, C., Truffer, B. and Maurer, M. (2016) Emerging solutions to the water challenges of an urbanizing world. *Science* **352**, 928-933.

Randall, D.G., Krähenbühl, M., Köpping, I., Larsen, T.A., Udert, K.M. (2016) A novel approach for stabilizing fresh urine by calcium hydroxide addition. *Water Res.* **95**, 361-369.

- Larsen, T.A. (2015) CO₂-neutral wastewater treatment plants or robust, climate-friendly wastewater management? A systems perspective. *Water Res.* **87**, 513-521.
- Künzle, R., Pronk, W., Morgenroth, E., Larsen, T.A. (2015) An energy-efficient membrane bioreactor for on-site treatment and recovery of wastewater. *J. Water, Sanitation, Hyg. Dev.* **5**(3), 448-455. DOI: 10.2166/washdev.2015.116
- Larsen, T.A., Gebauer, H., Gründl, H., Künzle, R., Lüthi, C., Messmer, U., Morgenroth, E., Niwagaba, C.B. and Ranner, B. (2015) Blue diversion: A new approach to sanitation in informal settlements. *J. Water, Sanitation, Hyg. Dev.* **5**(1), 64-71.
- McConville, J.R., Künzle, R., Messmer, U., Udert, K.M. and Larsen, T.A. (2014) Decision support for redesigning wastewater treatment technologies. *Environ. Sci. Technol.* **48**(20), 12238-12246.
- Kenway, S.J., Scheidegger, R., Larsen, T.A., Lant, P. and Bader, H.P. (2012) Water-related energy in households: A model designed to understand the current state and simulate possible measures. *Energy and Buildings* **58**, 378–389.
- Larsen, T.A. (2011) Redesigning wastewater infrastructure to improve resource efficiency. *Water Sci. Technol.* **63**(11), 2535-2541.
- Lienert, J. and Larsen, T.A. (2010) High acceptance of urine source separation in seven European countries: A review. *Environ. Sci. Technol.* **44**(2), 556-566.
- Larsen, T.A., Maurer, M., Eggen, R.I.L., Pronk, W. and Lienert, J. (2010) Decision support in urban water management based on generic scenarios: The example of NoMix technology. *J. Environ. Manage.* **91**(12), 2676-2687.
- Rossi, L., Lienert, J. and Larsen, T.A. (2009) Real-life efficiency of urine source separation. *J. Environ. Manage.* **90**(5), 1909-1917.
- Larsen, T.A., Alder, A.C., Eggen, R.I.L., Maurer, M. and Lienert, J. (2009) Source separation: Will we see a paradigm shift in wastewater handling? *Environ. Sci. Technol.* **43**(16), 6121-6125.
- Borsuk, M.E., Maurer, M., Lienert, J. and Larsen, T.A. (2008) Charting a path for innovative toilet technology using multicriteria decision analysis. *Environ. Sci. Technol.* **42**(6), 1855-1862.
- Udert, K.M., Kind, E., Teunissen, M., Jenni, S. and Larsen, T.A. (2008) Effect of heterotrophic growth on nitrification/anammox in a single sequencing batch reactor. *Water Sci. Technol.* **58** (2), 277-284.
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- Lienert, J. and Larsen, T.A. (2007) Soft paths in wastewater management - The pros and cons of urine source separation. *GAIA* **16**(4), 280-288.
- Lienert, J. and Larsen, T.A. (2006) Considering user attitude in early development of environmentally friendly technology: A case study of NoMix toilets. *Environ. Sci. Technol.* **40**(16), 4838-4844.
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- Udert, K.M., Larsen, T.A. and Gujer, W. (2006) Fate of major compounds in source-separated urine. *Water Sci. Technol.* **54**(11-12), 413-420.
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- Maurer, M., Rothenberger, D. and Larsen, T.A. (2005) Decentralised wastewater treatment technologies from a national perspective: At what cost are they competitive? *Water Sci. Technol.: Water Supply* **5**(6), 145-154.
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- Udert, K.M., Larsen, T.A. and Gujer, W. (2003c) Biologically induced precipitation in urine-collecting systems. *Water Sci. Technol.: Water Supply* **3**(3), 71-78.
- Udert, K.M., Fux, C., Münster, M., Larsen, T.A., Siegrist, H. and Gujer, W. (2003d) Nitrification and autotrophic denitrification of source-separated urine. *Water Sci. Technol.* **48**(1), 119-130.
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- Lienert, J., Haller, M., Berner, A., Stauffacher, M. and Larsen, T.A. (2003) How farmers in Switzerland perceive fertilizers from recycled anthropogenic nutrients (urine). *Water Sci. Technol.* **48**(1), 47-56.
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- Tillman, T., Larsen, T.A., Pahl-Wostl, C. and Gujer, W. (2001) Interaction analysis of stakeholders in water supply systems. *Water Sci. Technol.* **43**(5), 319-326.
- Huisman, J.L., Burckhardt, S., Larsen, T.A., Krebs, P. and Gujer, W. (2000) Propagation of waves and dissolved compounds in sewer. *J. Environ. Eng.-ASCE* **126**(1), 12-20.
- Tillman, D., Larsen, T.A., Pahl-Wostl, C. and Gujer, W. (1999) Modeling the actors in water supply systems. **39**(4), 203-211.
- Larsen, T.A. and Udert, K.M. (1999) Urine separation - a way of closing the nutrient cycles. *Wasser und Boden* **51**(11), 6-9.
- Krebs, P. and Larsen, T.A. (1997) Guiding the development of urban drainage systems by sustainability criteria. *Water Sci. Technol.* **35**(9), 89-98.
- Larsen, T.A. and Gujer, W. (1997) The concept of sustainable urban water management. *Water Sci. Technol.* **35**(9), 3-10.
- Jancarkova, I., Larsen, T.A. and Gujer, W. (1997) Distribution of nitrifying bacteria in a shallow stream. *Water Sci. Technol.* **36**(8-9), 161-166.

Larsen, T.A. and Gujer, W. (1996) Separate management of anthropogenic nutrient solutions (human urine). *Water Sci. Technol.* **34**(3-4), 87-94.

Gujer, W. and Larsen, T.A. (1995) The implementation of biokinetics and conservation principles in ASIM. *Water Sci. Technol.* **31**(2), 257-266.

Larsen, T.A. and Harremoës, P. (1994a) Degradation mechanisms of colloidal organic matter in biofilm reactors. *Water Res.* **28**(6), 1443-1452.

Larsen, T.A. and Harremoës, P. (1994) Modelling of experiments with colloidal organic matter in biofilm reactors. *Water Sci. Technol.* **29**(10-11), 479-486.

Larsen, T.A. and Harremoës, P. (1994b) Combined reactor and microelectrode measurements in laboratory grown biofilms. *Water Res.* **28**(6), 1435-1441.

Books and book chapters

Larsen, T.A. (2019) Urine source separation for global nutrient management. In: O'Bannon, D.J. (ed) *Women in Water Quality. Investigations by prominent female engineers*, pp. 99-111. Springer Nature Switzerland.

Larsen, T.A., Lienert, J., Udert, K.M. (eds) (2013) *Source Separation and Decentralization*, pp. 520. IWA Publishing, London.

Larsen, T.A. and Gujer, W. (2013) Implementation of source separation and decentralization in cities. In: Larsen, T.A., Lienert, J., Udert, K.M. (eds) *Source Separation and Decentralization*, pp. 135–150. IWA Publishing, London.

Erismann, J. W. and Larsen, T.A. (2013) Nitrogen economy of the 21st Century. In: Larsen, T.A., Lienert, J., Udert, K.M. (eds) *Source Separation and Decentralization*, pp. 45–58. IWA Publishing, London.

Larsen, T.A., Lienert, J. and Udert, K.M. (2013) Editorial. In: Larsen, T.A., Lienert, J., Udert, K.M. (eds) *Source Separation and Decentralization*, pp. 1–10. IWA Publishing, London.

Larsen, T.A. and Maurer, M. (2011) Source Separation and Decentralization. In: Peter Wilderer (ed.) *Treatise on Water Science*, vol. 4, pp. 203–229. Academic Press, Elsevier, Oxford.

Larsen, T.A., Lienert, J., Maurer, M., and Gujer, W. (2005) Ökologische Infrastrukturinnovationen in der Siedlungswasserwirtschaft - Ansätze und Perspektiven. In: Reinhard, L. and Schaeffer, R. (eds.) *Die Zukunft der Infrastrukturen - Intelligente Netzwerke für eine nachhaltige Entwicklung*. Metropolis-Verlag, Marburg, Deutschland.

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Larsen, T.A. and Boller, M.A. (2001) Perspectives of nutrient recovery in DESAR concepts. - In: Lens, P., Zeeman, G. and Lettinga, G. (eds.) *Decentralised Sanitation and Reuse: Concepts, Systems and Implementation*, pp. 387-410. IWA Publishing, London.

Conference proceedings (not published elsewhere)

Hadengue, B., Scheidegger, A., Morgenroth, E., Larsen, T. A. (2019) The WaterHub Modules : Material and Energy Flow Analysis of Domestic Hot WaterHub Modules : Material and Energy Flow Analysis of Domestic Hot Water Systems. Proceedings of the 13th International Modelica Conference, March 4-6, Regensburg, Germany, pp 639-646. DOI 10.3384/ecp19157639.

Lienert, J. and Larsen, T.A. (2005) Making the first step towards a more sustainable urban water management system – with the NoMix toilet. European Water Day, 84th ASTEE congress, Paris, France. 02.06.2005, Summary: p. 76; full article: CD-ROM.

Huang, D., Schertenleib, R., Siegrist, H., Larsen, T.A. and Gujer, W. (2004) Developing a method for assessing existing and alternative measures of urban water management in fast growing emerging countries. In: 'ecosan – closing the loop' Proceedings of the 2nd International Symposium on

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Other publications

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