

## RBM DIPL.-ING. CARSTEN MEYER

Address: University of Stuttgart, ISWA,  
Bandtæle 2, 70569 Stuttgart, Germany

Contact (business): Tel.: +49 711 68563754  
email: meyer.c@gmx.de

Contact (business): <https://www.iswa.uni-stuttgart.de/team/Meyer-00001/>

Nationality: German

<https://orcid.org/0000-0003-3617-6131>

<https://www.researchgate.net/profile/Carsten-Meyer-3>

Research Int. Score: 630.9

Citations: 779

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## CAREER & WORK EXPERIENCE

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|---------------|--|
| Since 08/2008 | Head of the Department of Wastewater Technology, University of Stuttgart, Germany  |
| 2006 – 2008   | Researcher at the Institute for Sanitary Engineering, Water Quality and Solid Waste Management at the University of Stuttgart, Germany, Department of Water Quality Management |
| 2004 – 2006   | Trainee lawyer in the Higher Civil Engineering Administration Service of the State of Baden-Württemberg, Germany   |
| 1998 – 2004   | Researcher at the Institute for Sanitary Engineering, Water Quality and Solid Waste Management at the University of Stuttgart, Germany, Department of Water Quality Management |

## EDUCATION & ACADEMIC DEGREES

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|-------------|--|
| 2004 – 2006 | Traineeship in the Higher Civil Engineering Administration Service of the State of Baden-Württemberg; graduation with government official diploma  |
| 1990 - 1997 | Study of civil engineering at the University of Stuttgart, specialising in technical hydromechanics/water hydraulics and water quality management/water supply, graduation with diploma in civil engineering |

## TEACHING PROFESSIONS

- Lectures at University of Stuttgart
  - Drinking water treatment (water chemistry & process technology)
  - Optimization of wastewater treatment plants and resource (nutrients & water) recycling
  - Wastewater treatment
- Lectureship in the field of water treatment for the Master's programme "Gas/Water Engineer" at EnBW Akademie GmbH
- Lectureship in the field of wastewater engineering for the master study programmes "LICS" (Master) and "BREM" (Bachelor) at the Pforzheim University of Applied Sc.

## MEMBERSHIPS IN PROFESSIONAL ASSOCIATIONS

- Member of German Association for Water, Wastewater and Waste (Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall e.V. (DWA), Germany)
  - Member of working group KEK-1.1 "Recycling from waste water and sewage sludge"
  - Member of working group DWA-AG-KA 6.3 "Biofilm processes"
  - Teacher for WWTP network PF 1 (Nr. 41)
- Association of Engineers for Water Management, Waste Management and Cultural Hydraulic Engineering (Bund der Ingenieure für Wasserwirtschaft, Abfallwirtschaft und Kulturbau e.V. (BWK), Germany)
- International Water Association (IWA)

## EXPERT ACTIVITIES

- Since 2021: Guidepoint Advisor in wastewater expert network
- Since 2014: Consultant for in-situ groundwater treatment, Züblin Umwelttechnik GmbH, Germany
- REVIEWER for: 1) Water Research; 2) Water Science and Technology; 3) Science of the Total Environment; 4) Journal of Water Process Engineering; 5) Water Supply; 6) Resources, Conservation & Recycling; 7) Journal of Cleaner Production; 8) Drinking Water Engineering and Science Discussions; 9) Water Practice and Technology; 10) Chemosphere

## FIELD OF RESEARCH

- Concepts and technologies for resource-oriented wastewater management
- Nutrient recovery from wastewater and sewage sludge
- Energy in sewage treatment plants
- Drinking water supply and treatment
- Adapted wastewater technologies - export-oriented research
- Anthropogenic micropollutants elimination in WWTP

## LANGUAGES

- English (fluent)
- French (basics)
- Latin (advanced certificate)

## PUBLICATIONS & AWARDS (excerpts)

- Stichnothe, H.; Joseph, B.; Preyl, V.; Meyer, C. (2024): Rural Urban Nutrient Partnership (RUN): Life Cycle Assess-ment of Multi Nutrient Recovery from Kitchen Waste and Blackwater. *Recycling* 2024, 9(2), 31; <https://doi.org/10.3390/recycling9020031>
- Drenkova-Tuhtan, A.; Meyer, C.; Inskeep, C.; Béalu, Z.; Luthardt, L.; Li Deuso, S.; Ballweg, T.; Schug, B.; Hanselmann, D.; Steinmetz, H.; Mandel, K (2024). Reusable and inductively regenerable magnetic activated carbon for removal of organic micropollutants from secondary wastewater effluents. *Water Research*, Volume 255, 15 May 2024, 121525. <https://doi.org/10.1016/j.watres.2024.121525>
- Monea, C.; Meyer, C.; Drenkova-Tuhtan, A.; Steinmetz, H.; Schönberger, H. (2020): Phosphorus recovery from sewage sludge – phosphorus leaching behavior from aluminum-containing tertiary and anaerobically digested sludge, *Water Science and Technology (Water Sci Technol wst2020414)*, <https://doi.org/10.2166/wst.2020.414>.
- Wang, P.; Meyer, C.; Steinmetz, H. (2020): Influence of various operating parameters on struvite metastable zone width. *Desalination and Water Treatment*. 175 (2020) 316–328. <https://doi.org/10.5004/dwt.2020.24913>
- Monea, M.C.; Löhr, D.K.; Meyer, C.; Preyl, V.; Xiao, J.; Steinmetz, H.; Schönberger, H.; Drenkova-Tuhtan, A. (2019). Comparing the leaching behavior of phosphorus, aluminum and iron from post-precipitated tertiary sludge and anaerobically digested sewage sludge aiming at phosphorus recovery. *Journal of Cleaner Production*.10.1016/j.jclepro.2019.119129.
- Drenkova-Tuhtan, A.; Meyer, C.; Inskeep, C.; Mandel, K.; Ballweg, T.; Schneider, M.; Gellermann, C.; Steinmetz, H. (2019). Reusable magnetic sorbent materials for advanced wastewater treatment and nutrient recovery. *Proceedings of the International Water Association (IWA): 3rd IWA Resource Recovery Conference IWA RR 2019, Venice, Italy, 8-12 September 2019*. IWA Publishing, 69.
- Meyer, C. et al. (2018): The Stuttgart Process, In: *Phosphorus: Polluter and Resource of the Future: Motivations, Technologies and Assessment of the Elimination and Recovery of Phosphorus from Wastewater* (Editor: Schaum, Chr.), IWA Publishing (Intl. Water Assoc.), 1st edition, June 15, 2018.
- Meyer, C. et al. (2018): The Stuttgart Process (Germany), In: *Phosphorus Recovery and Recycling* (Editors: Ohtake, H., Tsuneda, S.), Springer Verlag, Singapore, 2018.
- Drenkova-Tuhtan, A., Schneider, M., Franzreb, M., Meyer, C., Gellermann, C., Sextl, G., Mandel, K. and Steinmetz, H. (2017): Pilot-scale removal and recovery of dissolved phosphate from secondary wastewater effluents with reusable ZnFeZr adsorbent @ Fe<sub>3</sub>O<sub>4</sub>/SiO<sub>2</sub> particles with magnetic harvesting. *Water Research*, ISSN 0043-1354,(109), 77-87, <http://dx.doi.org/10.1016/j.watres.2016.11.039>.
- Schneider, M., Drenkova-Tuhtan, A., Wojciech, S., Gellermann, C., Meyer, C., Steinmetz, H., Mandel, K. and Sextl, G. (2017): Nanostructured ZnFeZr oxyhydroxide precipitate as efficient phosphate adsorber in waste water: understanding the role of different material-building-blocks. *Environmental Science: Nano*, 2017, in press, ISSN 2051-8153, <https://doi.org/10.1039/c6en00507a>.
- Drenkova-Tuhtan, A., Schneider, M., Mandel, K., Meyer, C., Gellermann, C., Sextl, G. and Steinmetz, H. (2015/2016): Influence of cation building blocks of metal hydroxide precipitates on their adsorption and desorption capacity for phosphate in wastewater – A screening study. *Colloids and Surfaces A: Physicochemical and Engineering Aspects* 488 (2016): 145-153, <http://dx.doi.org/10.1016/j.colsurfa.2015.1010.1017>.
- Meyer, C., Maurer, P. (2015): Schlamm Bilanzermittlung für simultan aerobe und getrennt anaerobe Schlammstabilisierungsanlagen. *Lehrer- und Obmanntagung, Tagungsband DWA (Hrsg.)*, Stuttgart, 26.03.2015.
- Meyer, C., Preyl, V., Steinmetz, H. (2015): High Quality MAP Production from Digested Sewage Sludge. Oral presentation and *Proceedings of the IWA Specialist Conference on Nutrient Removal and Recovery: moving innovation into practice*, Gdańsk, Poland, 18.-21.05.2015.
- Drenkova-Tuhtan, A.; Mandel, K.; Paulus, A.; Meyer, C.; Hutter, F.; Gellermann, C.; Sextl, G.; Franzreb, M.; Steinmetz, H. (2013): Phosphate recovery from wastewater using engineered superparamagnetic particles modified with layered double hydroxide ion exchangers. *Water Research* 47, 5670-5677.
- Re-Water AWARD, Braunschweig, 2013: Award sum of 10,000 for the joint project: "Phosphate recovery from wastewater with engineered superparamagnetic composite particles using magnetic separation".