Leiv Rieger

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | The eawag bio-p module for activated sludge model no. 3. Water Research, 2001, 35, 3887-3903. | 5.3 | 163 |
| 2 | Extension of ASM3 for two-step nitrification and denitrification and its calibration and validation with batch tests and pilot scale data. Water Research, 2009, 43, 1680-1692. | 5.3 | 146 |
| 3 | Modelling nitrite in wastewater treatment systems: a discussion of different modelling concepts. Water Science and Technology, 2008, 58, 1155-1171. | 1.2 | 123 |
| 4 | Uncertainties of spectral in situ measurements in wastewater using different calibration approaches. Water Science and Technology, 2006, 53, 187-197. | 1.2 | 103 |
| 5 | Critical review of activated sludge modeling: State of process knowledge, modeling concepts, and limitations. Biotechnology and Bioengineering, 2013, 110, 24-46. | 1.7 | 97 |
| 6 | Wastewater treatment modelling: dealing with uncertainties. Water Science and Technology, 2009, 60, 1929-1941. | 1.2 | 74 |
| 7 | New framework for standardized notation in wastewater treatment modelling. Water Science and Technology, 2010, 61, 841-857. | 1.2 | 73 |
| 8 | The difference between energy consumption and energy cost: Modelling energy tariff structures for water resource recovery facilities. Water Research, 2015, 81, 113-123. | 5.3 | 71 |
| 9 | A systematic approach for model verification: application on seven published activated sludge models. Water Science and Technology, 2010, 61, 825-839. | 1.2 | 70 |
| 10 | Instrumentation, control and automation in wastewater – from London 1973 to Narbonne 2013. Water Science and Technology, 2014, 69, 1373-1385. | 1.2 | 68 |
| 11 | Ammoniaâ€Based Feedforward and Feedback Aeration Control in Activated Sludge Processes. Water Environment Research, 2014, 86, 63-73. | 1.3 | 61 |
| 12 | Activated sludge modelling in practice: an international survey. Water Science and Technology, 2009, 60, 1943-1951. | 1.2 | 54 |
| 13 | Data Reconciliation for Wastewater Treatment Plant Simulation Studies—Planning for Highâ€Quality Data and Typical Sources of Errors. Water Environment Research, 2010, 82, 426-433. | 1.3 | 46 |
| 14 | Activated sludge modelling: development and potential use of a practical applications database. Water Science and Technology, 2011, 63, 2164-2182. | 1.2 | 43 |
| 15 | Improving Nutrient Removal While Reducing Energy Use at Three Swiss WWTPs Using Advanced Control. Water Environment Research, 2012, 84, 170-188. | 1.3 | 42 |
| 16 | Performance evaluation of fault detection methods for wastewater treatment processes. Biotechnology and Bioengineering, 2011, 108, 333-344. | 1.7 | 40 |
| 17 | Modelling of aeration systems at wastewater treatment plants. Water Science and Technology, 2006, 53, 439-447. | 1.2 | 39 |
| 18 | Adding realism to simulated sensors and actuators. Water Science and Technology, 2008, 57, 337-344. | 1.2 | 38 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Quantifying the uncertainty of on-line sensors at WWTPs during field operation. Water Research, 2005, 39, 5162-5174. | 5.3 | 32 |
| 20 | Modelling gas–liquid mass transfer in wastewater treatment: when current knowledge needs to encounter engineering practice and vice versa. Water Science and Technology, 2019, 80, 607-619. | 1.2 | 32 |
| 21 | The future of WRRF modelling $\hat{a} \in$ "outlook and challenges. Water Science and Technology, 2019, 79, 3-14. | 1.2 | 31 |
| 22 | A novel metabolic-ASM model for full-scale biological nutrient removal systems. Water Research, 2020, 171, 115373. | 5.3 | 28 |
| 23 | Development of a model for activated sludge aeration systems: linking air supply, distribution, and demand. Water Science and Technology, 2017, 75, 552-560. | 1.2 | 27 |
| 24 | Towards advanced aeration modelling: from blower to bubbles to bulk. Water Science and Technology, 2017, 75, 507-517. | 1.2 | 26 |
| 25 | Ammonia-based aeration control with optimal SRT control: improved performance and lower energy consumption. Water Science and Technology, 2019, 79, 63-72. | 1.2 | 26 |
| 26 | Potential of in-situ sensors with ion-selective electrodes for aeration control at wastewater treatment plants. Water Science and Technology, 2008, 58, 629-637. | 1.2 | 25 |
| 27 | Integrated shortcut nitrogen and biological phosphorus removal from mainstream wastewater: process operation and modeling. Environmental Science: Water Research and Technology, 2020, 6, 566-580. | 1.2 | 24 |
| 28 | Guidelines for Using Activated Sludge Models. Water Intelligence Online, 0, 11, . | 0.3 | 23 |
| 29 | Long-term evaluation of a spectral sensor for nitrite and nitrate. Water Science and Technology, 2008, 57, 1563-1569. | 1.2 | 21 |
| 30 | Rethinking wastewater characterisation methods for activated sludge systems – a position paper. Water Science and Technology, 2013, 67, 2363-2373. | 1.2 | 21 |
| 31 | monEAU: a platform for water quality monitoring networks. Water Science and Technology, 2008, 57, 1079-1086. | 1.2 | 19 |
| 32 | Wastewater treatment models in teaching and training: the mismatch between education and requirements for jobs. Water Science and Technology, 2009, 59, 745-753. | 1.2 | 18 |
| 33 | Calibration and validation of an ASM3-based steady-state model for activated sludge systems—part II:. Water Research, 2001, 35, 2246-2255. | 5.3 | 15 |
| 34 | Long-term simulation of a full-scale EBPR plant with a novel metabolic-ASM model and its use as a diagnostic tool. Water Research, 2020, 187, 116398. | 5.3 | 11 |
| 35 | Assessment of aeration control strategies for biofilm-based partial nitritation/anammox systems. Water Science and Technology, 2020, 81, 1757-1765. | 1.2 | 7 |
| 36 | Inhibition of biological phosphorus removal in a sequencing moving bed biofilm reactor in seawater. Water Science and Technology, 2009, 59, 1101-1110. | 1.2 | 6 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Dynamic air supply models add realism to the evaluation of control strategies in water resource recovery facilities. Water Science and Technology, 2018, 78, 1104-1114. | 1.2 | 6 |
| 38 | Probabilistic qualitative analysis for fault detection and identification of an on-line phosphate analyzer. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2012, 4, 67-77. | 0.7 | 5 |
| 39 | Towards the automation of water quality monitoring networks. , 2010, , . | | 4 |
| 40 | A framework for model-based assessment of resilience in water resource recovery facilities against power outage. Water Research, 2021, 202, 117459. | 5.3 | 4 |
| 41 | Why Many Control Systems Fail. Proceedings of the Water Environment Federation, 2011, 2011, 3906-3918. | 0.0 | 3 |
| 42 | Editorial: Status and future of wastewater treatment modelling. Water Science and Technology, 2010, 61, 821-823. | 1.2 | 2 |
| 43 | Editorial: Water Resource Recovery Modelling. Water Science and Technology, 2019, 79, 1-2. | 1.2 | 2 |
| 44 | Using Whey as a Supplemental Carbon Source under Real Time Control Conditions …or a story of… Turds and Whey. Proceedings of the Water Environment Federation, 2010, 2010, 2354-2371. | 0.0 | 1 |
| 45 | Improving Nutrient Removal While Reducing Carbon Footprint at Three Swiss WWTPs Thanks to Advanced Control. Proceedings of the Water Environment Federation, 2010, 2010, 1979-2005. | 0.0 | 1 |
| 46 | New Framework for Standardized Notation in Wastewater Treatment Modelling. Proceedings of the Water Environment Federation, 2010, 2010, 1099-1100. | 0.0 | 1 |
| 47 | A Comprehensive Aeration System Model for WRRF Design and Control. Proceedings of the Water Environment Federation, 2015, 2015, 5091-5120. | 0.0 | 1 |
| 48 | Dynamic Modeling of Membrane-Aerated Biofilm Reactors. Proceedings of the Water Environment Federation, 2018, 2018, 1297-1312. | 0.0 | 1 |
| 49 | Using modeling to optimize a full-scale WWTP for energy reduction and increased biological nitrogen removal. Proceedings of the Water Environment Federation, 2009, 2009, 1282-1285. | 0.0 | 0 |
| 50 | Improved Design of Aeration Systems by Using Dynamic Simulation. Proceedings of the Water Environment Federation, 2011, 2011, 354-356. | 0.0 | 0 |
| 51 | Coupling SRT Control with Aeration Control Strategies. Proceedings of the Water Environment Federation, 2016, 2016, 4824-4839. | 0.0 | 0 |
| 52 | Comparison of Advanced Fine-Bubble Aeration Control Concepts with Respect to Energy Efficiency and Robustness. Proceedings of the Water Environment Federation, 2016, 2016, 136-147. | 0.0 | 0 |
| 53 | An Innovative Approach for Modeling Aerobic Granular Sludge Processes. Proceedings of the Water Environment Federation, 2017, 2017, 129-140. | 0.0 | 0 |
| 54 | Automated Performance Tracking of Sensors and Control Loops. Proceedings of the Water Environment Federation, 2018, 2018, 3486-3495. | 0.0 | 0 |