

## POSTERS

REFERENCE	AUTHORS	TITLE
IWA-13146	Andreas Schroers ; Bob Dabkowski; Rob Minnema	Off the Shelf Real-Time-Control for Automated Chemical Phosphorus Removal
IWA-12570	Frederique Larrarte, Ph. D.; Sophie Vareilles; Matthieu. Dufresne; Nicolas Rivière; Marie Noelle Pons; Gislain Lipeme-Kkouyi; Claude Joannis; Rémy Claverie; Ghassan Chebbo; Bertrand Riochet; Katia Wouter Wasiak; Régis Visiédo; Laurent Solliec	MENTOR or how to qualify measurement sites in sewer systems
IWA-12574	Severine Carretier; Geoffroy Lesage; Alain Grasmick; Marc Héran	Nutrients recovery from biogas plants digestate. Can membrane be useful?
IWA-12576	Jordi Cros Herrero; Ramón Prats Vime	Monitoring Network for Quality of Dammed Water, at Some Spanish River Basins
IWA-12577	Leiv Rieger; Mathieu Beaupré; Hansruedi Siegrist; Peter A. Vanrolleghem	Test of on-line sensors under standardized field conditions or how to select the right sensor?
IWA-12578	Gary L.S. Wong	Effective Data Management Enables Intelligent Utility Management
IWA-12579	Doo Yong Choi; Cheol-Ho Bae; Juhwan Kim; Dohwan Kim	On the Effect of Pressure Monitoring for Valve-induced Transient Flow in Water Transmission Lines
IWA-12580	Ramon Ganigue; Jindong Chen; Yiqi Liu; Zhiguo Yuan	Real-time Multi-step Prediction of Sewer Flow for Online Chemical Dosing Control
IWA-12585	Jordi Cros Herrero; Jaume Lopez Ripoll	Monitoring Network for Sewerage Control
IWA-12589	Silvano Nájera; Montserrat Gil-Martínez; Jesús A. Zambrano	ATAD control goals through the analysis of process variables and evaluation of quality, production and cost
IWA-12590	Lars Larsson; Sarah Elger	Process optimization and energy reduction with online controls by analysing nitrification/denitrification rates in a continuous flow SBR
IWA-12594	Juli Romera; Vicenc Puig; Joseba Quevedo	Automatic Control of Pollutant on a Shallow River using Surface Water Systems: Application to the Ebro River
IWA-12595	Ricardo Gómez Martínez; Joaquín López Pérez	Standardization of equipment monitoring and control systems with low density of information. Canal de Isabel II Gestión.
IWA-12597	Francesco Casella; Alessandro Della Bona; Gianni Ferretti; Elena Ficara; Marco Lovera; Francesca Malpei	LFT formulation of an anaerobic digestion model for parameters identification
IWA-12598	Rafael Muñoz-Tamayo; Francis Mairet; Olivier Bernard	A closed-loop controller for optimizing nitrogen removal in a microalgal outdoor pond
IWA-12600	Stefano Marsili-Libelli; Emanuele El Basri; Matteo Masi	Hierarchical control optimization of WWTP operation via Pareto front
IWA-12602	Ghouali Amel; Sari Tewfik; Moussaoui Ali; Harmand Jérôme	Maximizing biogas production from the anaerobic digestion process

REFERENCE	AUTHORS	TITLE
IWA-12605	Ben Li; Michael K Stenstrom	Benefits of Improved One-Dimensional Secondary Settling Tank Modeling for Activated Sludge Process Design and Control
IWA-12606	Jixian Zhan; Eiichi Koizumi; Toshikazu Hashimoto	An Aeration Control Strategy for Anaerobic-Oxic (AO) Process: a Full Scale Study
IWA-12613	Hiroto Yokoi; Yutaka Sangu; Hideyuki Tadokoro; Takahiro Tachi	Verification of Automatic Coagulant Dosage Control System Based on Aluminum Concentration in Small Flocs
IWA-12616	Akira Hafuka; Hiroaki Yoshikawa; Koji Yamada; Masahiro Takahashi; Satoshi Okabe; Hisashi Satoh	Development of a fluorescent indicator for zinc ion and its application to urban runoff samples
IWA-12620	Xiaoxin Liu; Gustaf Olsson; Zhiguo Yuan	In Search of Optimal Aeration Profiles in a Plug-flow Biological Wastewater Treatment Reactor: A Theoretical Approach
IWA-12621	Dana Copot; Clara Mihaela Ionescu; Thomas Vannecke; Eveline Volcke; Robin De Keyser	An Approach towards Multivariable Control of Anaerobic Digestion using the EPSAC Predictive Control Strategy
IWA-12622	Angel Robles; María Victoria Ruano; Josep Ribes; Aurora Seco; José Ferrer	Simulation-based development of an advanced control system for optimal filtration in Submerged Anaerobic MBRs (SAnMBRs)
IWA-12623	Toshiki Fukushima; Isao Somiya	A Study on Development of a Sewage Treatment Plant Operation Planning System
IWA-12625	Giacomo Barni; Thomas Maere; Stefano Marsili-Libelli; Ingmar Nopens	Performance evaluation of the benchmark simulation model for membrane bioreactors extended with membrane filtration and fouling
IWA-12627	Luis Castillo; David du Pasquier; Stéphane Deleris; Grégory Lemkine	Biological Tools to Optimize Treatment Technologies to Remove Micropollutants and Endocrine disrupters (BIOTTOPE).
IWA-12628	Hande Bozkurt; Alberto Quaglia; Krist Gernaey, Prof.; Gürkan Sin, Assoc. Prof.	Superstructure development and optimization for design/retrofit of municipal wastewater treatment plants
IWA-12629	Anna Katrine Vangsgaard; Miguel Mauricio-Iglesias; A. Gizem Mutlu; Krist V. Gernaey; Barth F. Smets; Gürkan Sin	Performance of an autotrophic nitrogen removing reactor: Diagnosis through fuzzy logic
IWA-12634	Ángel Robles; María Victoria Ruano; Josep Ribes; Aurora Seco; José Ferrer	Organic Loading Rate (OLR) controller for Submerged Anaerobic Membrane Bioreactors (SAnMBRs)
IWA-12635	Ana Ruiz-Martinez; Alexandre Viruela; Tao Gómez-Gil; Angel Robles; Freddy Durán; Josep Ribes; Daniel Aguado; Alfredo Rosado; Aurora Seco; José Ferrer	ICA applied to Membrane PhotoBioReactors (MPBRs) for wastewater nutrient recovery
IWA-12637	María Victoria Ruano; Joaquín Serralta; Josep Ribes; Aurora Seco; José Ferrer	Combination of cascade fuzzy controllers with a supervisory expert system for controlling aeration in WWTPs. Application to several WWTPs
IWA-12638	Elena Torfs; Thomas Maere; Raimund Bürger; Stefan Diehl; Sebastian Farås; Ingmar Nopens	Towards improved 1-D settler modelling: impact on control strategies using the Benchmark Simulation Model

REFERENCE	AUTHORS	TITLE
IWA-12640	Jia He; Raymond Zeng	Modeling organic loading shocks in a UASB reactor with a diffusion model integrated in ADM1
IWA-12646	Bjorge Decostere; Mathieu Duyck; Han Vervaeren; Thomas Maere; Stijn W.H. Van Hulle; Ingmar Nopens	Determination of degrees of freedom influencing the microalgal kinetic growth rate with a respirometric-titrimetric methodology
IWA-12648	Frank Honold; Ulrich Franke	Monitoring of Waste Water Treatment in Sequential Batch Reactors (SBRs) with Ion Selective Electrodes
IWA-12651	Asli Seyhan Ciggin; Elcin Kokdemir Unsar; Nuriye Altinay Perendeci	Evaluation of Anaerobic Co-Digestion Process of Peanut and Cotton Residues with Sewage Sludge by Simplified Mathematical Modelling
IWA-12652	Florent Locatelli; Pierre François; Julien Laurent; Fabrice Lawniczak; Karim Bekkour	Ultrasonic device for concentration and velocity profiles monitoring during activated sludge batch settling
IWA-12658	Yukie Sakamaki; Kenta Yamada; Daisuke Sano; Masahiro Takahashi; Satoshi Okabe; Hisashi Satoh	Rapid and Label-Free Detection of Norovirus GII.4 by Surface Plasmon Resonance
IWA-12659	Niti Pitakteeratham; Yukie Sakamaki; Kenta Yamada; Satoshi Ishii; Masahiro Takahashi; Satoshi Okabe; Hisashi Satoh	Development of surface plasmon resonance (SPR) biosensor for Escherichia coli O157
IWA-12665	Javier Guerrero; Xavi Flores-Alsina; Albert Guisasola; Krist V Gernaey; Juan Antonio Baeza	Analysis of design configurations/control strategies in biological nutrient removal processes using discriminant analysis
IWA-12670	Hitesh C Boghani; Katrin Fradler; Iain Michie; Richard M Dinsdale; Alan J Guwy; Giuliano C Premier	Controlling for peak power extraction from microbial fuel cells can increase stack potential and avoid cell reversal
IWA-12673	Daniel Jung; Minyu Fu; Julien Gouello; Christophe Renner; Vincent Parez	Evaluation of Sulfide Production Models in Pressure Sewers
IWA-12681	Magali Casellas; Julien Laurent; A Combret; Christophe Dagot	Towards a control strategy for SBR treating slaughterhouse wastewater: use of activated sludge modelling
IWA-12683	Olaf Kujawski	Evaluation of Control Parameters for Digester Stirring on Biogas Plants
IWA-12684	Sonja Ostojin; Stephen R Mounce; Joby B Boxall; David N Singerton	Autonomous fuzzy logic control of pumping in sewer systems
IWA-12685	Roland Fuiko; Andreas Winkelbauer; Stefan Winkler	Data integration - A substantial prerequisite for correct data interpretation in online monitoring
IWA-12691	Lelum Duminda Manamperuma; Harsha C Ratnaweera; Subhash S Rathnaweera	Retrofitting coagulant dosing control using real-time water quality measurements to reduce coagulant consumption
IWA-12702	Joost Lauwers; Filip Logist; Lise Appels; Raf Dewil; Jan Van Impe	Structural identifiability of the Anaerobic Digestion Model No. 1 (ADM1)
IWA-12703	Andreas Winkelbauer; Roland Fuiko; Stefan Winkler	Crucial elements and technical implementation of intelligent monitoring networks

REFERENCE	AUTHORS	TITLE
IWA-12704	Leiv Rieger; Charles B Bott; Jens Alex	A new model-based approach to control methanol dosage at multi-stage WWTPs
IWA-12705	Erik Ulfson Lindblom; Magnus Arnell; Fredrik Stenström; Kåre Tjus; Xavier Flores-Alsina; Ulf Jeppsson	Dynamic modelling and validation of nitrous oxide emissions from a full-scale nitrifying/denitrifying sequencing batch reactor treating anaerobic digester supernatant
IWA-12708	Jean Claude Correale; Thierry Spetebrout; Dalila Pulcini; Fabrizio Paolucci; Davide Sottara; Luca Luccarini	An ontology for the WWTP instrumentation, control and automation infrastructure
IWA-12709	Enrique Lizarraga-Palazuelos; Juan Paulo Garcia Sandoval; Hugo Oscar Méndez-Acosta; Víctor González-Álvarez	Regulation of methane production in a Tequila vinasses Anaerobic Digestion Pilot Plant
IWA-12710	Bernat Joseph-Duran; Carlos Ocampo-Martinez; Gabriela Cembrano	A Control-Oriented Hybrid Modelling Approach for Sewer Networks: Barcelona Case Study
IWA-12711	Montserrat Dalmau; Thomas Maere; Ingmar Nopens; Ignasi Rodriguez-Roda; Joaquim Comas	Multi-objective control of a MBR/CAS full-scale plant
IWA-12714	Youri Amerlinck; Thomas Maere; Krist V Gernaey; Ingmar Nopens	Extending the Benchmark Simulation Model No. 2 (BSM2) with detailed models for dynamic pumping energy consumption
IWA-12715	Sten Strömberg; Mihaela Nistor; Jing Liu	Improvements in Prediction Modelling of Biochemical Methane Potential (BMP) Tests
IWA-12718	Jesús Alberto Zambrano; Montserrat Gil-Martínez; Silvano Nájera; Ion Irizar	Evaluation of a new control strategy for ATAD technology based on Quantitative Feedback Theory
IWA-12720	Cheol-Ho Bae; Doo-Jin Lee; Dohwan Kim; Doo Yong Choi	Automatic Flushing Control System using Online Water Quality Monitoring in Water Distribution Network
IWA-12722	Mikel Maiza; Sergio Beltrán; Klara Westling; Bengt Carlsson; Michela Mulas; Pär-Håkan Bergström; Suvi-Maaret Hyryläinen; Gorka Urchegui	DIAMOND: AdvanceD data management and InformAtics for the optimuM operatiON anD control of WWTPs
IWA-12723	Valentina Buscio; María Carmen Gutiérrez-Bouzán; Martí Crespi	Determination of indigo dye for its automation during the recovery by membrane process
IWA-12724	Linda Åmand; Bengt Carlsson	Parameter scheduling in ammonium feedback control
IWA-12726	Finn Haugen; Rune Bakke; Bernt Lie	An advanced and flexible computer-based system for monitoring and control of a pilot bioreactor
IWA-12728	Sandro Lautenschlager; Kelly Rodrigues	Using wireless sensor networks for monitoring water distribution
IWA-12729	Johannes Nygren; Bengt Carlsson	Increasing the number of DO sensors for aeration control in wastewater treatment - how much is gained?
IWA-12730	Bengt Carlsson; Karin Dahllöf; Emanuel Isaksson; Gustaf Josefsson; Jesus Zambrano	Fault detection of sensors in aeration control systems - the airflow ratio method
IWA-12741	Kris Villez; Peter A. Vanrolleghem; Lluís Corominas	Structural observability and redundancy classification for sensor networks in wastewater systems

REFERENCE	AUTHORS	TITLE
IWA-12742	Hyosoo Kim; Yejin Kim; Minsoo Kim; Wenhua Piao; Seunghoon Lee; Changwon Kim	Diagnosis-based control strategy for NH4-N and NOX-N removal on a full-scale advanced phase isolation ditch process
IWA-12746	Sul Ah Lee; Yejin Kim; Dongkwan Kim; Hyosoo Kim; Youngchul Lee; Changwon Kim	Decision Tree Algorithm for Estimation of River Water Quality for Integrated Water Quality Management
IWA-12747	Youngchul Lee; Hyosoo Kim; Yejin Kim; Minsoo Kim; Wenhua Piao; Changwon Kim	Extraction of decision trees as a tool of informative monitoring and integrated manangement on receiving water quality
IWA-12750	Janelcy Alferes; Pascal Poirier; Coralie Lamaire-Chad; Anitha K. Sharma; Peter S. Mikkelsen; Peter A. Vanrolleghem	Data quality assurance in monitoring of wastewater quality: Univariate on-line and off-line methods
IWA-12751	Robert Smith; Frank Honold; Ulrich Franke	Online process monitoring of activated sludge: state of the practice
IWA-12757	Sofiane Mazeghrane; Eric Latrille; Daniel Jung; Damien Chenu; Jean-Philippe Steyer	A manometric method for monitoring biogas production in anaerobic bioreactors