

LuWQ2019_abstracts_oral_and_poster_for_web_298_17Dec2018.pdf

The full list of authors will later be available in Conference Programme

The green marked orals are submitted by members of Scientific Advisory Committee

Abstracts accepted for ORAL PRESENTATION

| Abstract no. | Surname | First Name | Country | Abstract Title |
|--------------|-----------------|-------------|---------|---|
| 6 | Bieroza | Magdalena | SE | Integrating high- and low-frequency water quality monitoring at the catchment scale |
| 7 | Tent | Ludwig | DE | Participation of public groups in brook restoration, a vital tool to improve lively habitats: Urban and rural examples of the metropolitan region of Hamburg, Germany |
| 12 | Vehanen | Teppo | FI | Improving the status of river fish communities in changing climate: From in-stream habitat restoration to catchment management |
| 13 | Collins | Adie | GB | The effectiveness of on-farm measures for delivering multiple benefits: Integrating farm surveys and modelling to co-design solutions at landscape scale |
| 15 | Gutierrez Gines | Maria Jesus | NZ | Water quality, ecosystem restoration and traditional knowledge |
| 17 | Valkama | Elena | FI | Nitrogen retention by buffer zones in surface runoff and groundwater: A meta-analysis |
| 18 | Wendland | Frank | DE | Agricultural nitrogen reduction requirement to reach groundwater and surface water quality targets in North Rhine-Westphalia (NRW), Germany |
| 19 | Wendland | Frank | DE | Which time-lags in groundwater have to be taken into account before nutrient reduction measures show effects after implementation? Case study North Rhine-Westphalia, Germany [presented by Michael Eisele] |
| 23 | McDowell | Rich | NZ | Perspectives on global nutrient loads and flows |
| 30 | Glavan | Matjaž | SI | Evaluation of barriers and issues in providing integrated scientific support for EU policy |
| 31 | Vermaat | Jan | NO | Applying ecosystem services as a framework to analyze the possible effects of a green bio-economy shift on Nordic catchments |
| 36 | Bedford | Gary | NZ | Regional-scale stream health responses to riparian management |
| 37 | Jiang | Yefang | CA | Ongoing release of legacy nitrate from agricultural vadose zone delays groundwater quality improvement response to BMPs |
| 38 | Merz | Christoph | DE | Nitrate transport through groundwater into the sea: A ticking time bomb? |

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| 39 | Collins | Stephen | NZ | Combining the use of age and isotope tracers to shed light on catchment hydrology, groundwater processes and land use effects |
| 41 | Ezzati | Golnaz | IE | Investigating the ditch system in retaining and mobilizing nutrients in an intensive dairy farm |
| 43 | Srinivasan | MS | NZ | A biophysical framework to describe the linkages between land use and water quality impacts |
| 47 | Merchán | Daniel | ES | Irrigation implementation promotes a new nitrate vulnerable zone in the Cidacos River Watershed (Navarre, Spain) |
| 51 | Curk | Miha | SI | Modelling potential for sustainable plant production: A case study of apple orchard in southeastern Slovenia |
| 52 | Bechmann | Marianne | NO | Soil tillage effects on water quality in a cold climate |
| 53 | Skarbøvik | Eva | NO | Setting reference conditions for nutrients in Nordic surface waters: Methodologies, levels, uncertainty and management implications |
| 59 | Højberg | Anker | DK | Improvements in catchment scale modelling for assessing nitrate reduction |
| 63 | van den Brink | Cors | NL | Constraining and enabling factors in implementing agricultural innovations in groundwater protection areas in Overijssel, the Netherlands |
| 65 | Hilliges | Falk | DE | Opportunities and limits of official reporting data for scientific purposes in groundwater protection |
| 66 | van der Veeren | Rob | NL | The potential role of natural capital and ecosystem services in stopping peat oxidation in the Dutch province of Flevoland |
| 67 | van der Wal | Annemieke | NL | Long-term field observations may indicate phosphate leaching in sandy agricultural soils |
| 68 | Bönsch | Dorothee | DE | Emissions from drained agricultural field: Detecting subsurface drainages by |
| 69 | Hansen | Birgitte | DK | Hydro-geochemical controls on nitrate response in shallow groundwater to agricultural N regulation in Denmark |
| 70 | Hansen | Line | DK | Flexibility in the choice of N abatement measures: Implications for costs of implementation and environmental service provision |
| 71 | Coale | Frank | US | Three decades of effort to attain nutrient loading reduction goals in Chesapeake Bay, USA |
| 73 | Willis | Gerard | NZ | Nitrogen limit-setting and allocation of discharge rights in New Zealand |
| 74 | Tits | Mia | BE | Impact of fertilizer buffer strips on direct nutrient losses in surface water and farmers cost-benefit-balance in Flanders |
| 75 | Schullehner | Jörg | DK | Chronic health effects of nitrate in drinking water |

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| 78 | Surdyk | Nicolas | FR | Agri-drinking water indicators (ADWIs): Linkage between agricultural practice and good drinking water quality |
| 81 | Moore | Philip | US | Long-term effects of grazing management and buffer strips on phosphorus runoff from pastures fertilized with poultry litter |
| 83 | Fresne | Maele | IE | Mobilisation, pathway and delivery experiments to understand the role of colloidal P transfer to groundwater |
| 85 | Levine | Brian | NZ | Quantifying the ability of Detainment Bunds to attenuate sediments and nutrients in surface runoff from grazed pasture in the Lake Rotorua catchment, New Zealand |
| 86 | Feyereisen | Gary | US | Denitrification bioreactors as a structural water quality measure at catchment scale: Performance and lessons learned |
| 91 | Thorburn | Peter | AU | Insurance as a tool to help farmers mitigate nitrogen pollution from intensive cropping |
| 94 | Kronvang | Brian | DK | A novel indicator-based approach to assess and plan for multifunctional land consolidation |
| 95 | Collentine | Dennis | SE | BIOWATER systems attribute survey: Impacts of the bioeconomy on land use and land management in the Nordic countries in the year 2050 |
| 96 | van't Veen | Sofie | DK | Is it possible to use stream measurements to calculate nitrogen emissions from agricultural areas in Danish catchments? Investigating the possibility to create a nitrogen emission map for catchments |
| 97 | Pohle | Ina | GB | Spatio-temporal variability of water quality determinands in Scottish catchments |
| 100 | Konrad | Maria | DK | Ground- and surface-water quality: Spill-over effects and spatial trade-offs |
| 104 | Quaglia | Gisela | BE | Mitigating pesticide levels in surface waters: Long-term surface water monitoring in an agricultural catchment |
| 105 | Wilson | Scott | NZ | Estimating nitrate transit times in the vadose zone in two contrasting regions in New Zealand |
| 107 | Navarrete | Soledad | NZ | Decreased nitrate leaching when lactating cows graze plantain (<i>Plantago lanceolata</i>) pastures |
| 109 | Harter | Thomas | US | Nitrate contamination of groundwater from agriculture and other land uses in California's Central Valley: An evolving regulatory landscape |
| 111 | Singh | Ranvir | NZ | The landscape nitrogen attenuation index: A framework for effective land use practices and water quality outcomes |
| 112 | McCloskey | Gillian | AU | Confronting the extremes, droughts and cyclonic rains: Modelling fine sediment export across the Great Barrier Reef catchments, Australia |

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| 113 | Dougall | Cameron | AU | Confronting the extremes, droughts and cyclonic rains: Modelling dissolved inorganic nitrogen export across the Great Barrier Reef catchments, Australia |
| 114 | Friedel | Michael | NZ | A novel data-driven workflow for 3D predictions of groundwater redox status in agriculturally-dominated regions of New Zealand |
| 117 | Audet | Joachim | DK | Nutrient retention in restored riparian wetlands in Denmark |
| 118 | Laursen | Rikke | DK | Decision support tools for reduction of nitrate and pesticide pollution from agriculture |
| 120 | Zak | Dominik | DK | The multi-functionality of integrated buffer zones in Northwest Europe |
| 121 | Burbery | Lee | NZ | Denitrification wall trial in a gravel aquifer |
| 124 | Stenger | Roland | NZ | Utilising stream monitoring data to elucidate pathway-specific nutrient transfers in meso-scale catchments |
| 125 | Bartosova | Alena | SE | The role of climate, socioeconomics, and mitigation efforts in future nutrient loads to the Baltic Sea |
| 127 | Mehdi | Bano | AT | Sustainable nitrogen management under climate change in Austria |
| 130 | Andersen | Hans Estrup | DK | Modelling and mapping pesticide exposure risk at catchment scale |
| 131 | Hernández-García Iker | | ES | Assessing current flow connectivity indexes to understand differences in sediment and nutrient dynamics in two Mediterranean watersheds in Navarre (Spain) |
| 132 | Taylor | Ken | NZ | New Zealand's "Our Land and Water" National Science Challenge: Is it making a difference? |
| 133 | Mooney | Damien | IE | Agro-chemicals in Irish groundwaters: Investigating the occurrence of veterinary drugs and their transformation products |
| 135 | de Vries | Alma | NL | The role of Multi-Actor Platforms in addressing challenges to protect drinking water supplies |
| 136 | Djordjic | Faruk | SE | Optimizing placement of countermeasures at landscape scale as low-hanging fruits to reduce phosphorus losses |
| 137 | Jordan | Phil | GB | Phosphorus transfers from soil to water: Linking concentration and flux to catchment carrying capacities |
| 142 | Fraters | Dico | NL | Monitoring spring water quality to assess the changing impact of agricultural on the water environment: Case study from the loess region of the Netherlands |
| 144 | Turner | Ryan | AU | The increasing risk of imidacloprid in Australia's Great Barrier Reef catchments |
| 145 | D'heygere | Tom | BE | Interregional coordination on gap analysis in Belgium for the Water framework directive |

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| 147 | Warne | Michael | AU | Land-use as a predictor of pesticide concentrations, mixture complexity and mixture toxicity |
| 149 | Tanner | Chris | NZ | How much wetland would be needed for 20% and 40% reduction in agricultural nitrogen loads into Te Waihora / Lake Ellesmere? |
| 152 | Stott | Rebecca | NZ | Automated high frequency and near-real time monitoring of microbial dynamics for assessing health risks from land use on surface waters in Aotearoa / New Zealand |
| 153 | Kyllmar | Katarina | SE | Source apportionment of N and P in small agricultural monitoring catchments as a basis for improved classification of river basins |
| 158 | Futter | Martyn | SE | The Nordic Bioeconomy Pathways and water quality futures in agricultural landscapes |
| 160 | Heidecke | Claudia | DE | The impact of agricultural production and policy on water quality during the dry year 2018 |
| 161 | Casquin | Antoine | FR | The role of landscape composition and spatial distribution on N and P transfer in agricultural headwater catchments |
| 162 | Coppens | Jan | BE | The use of the nutrient emission model NEMO for quantifying losses of nitrogen and phosphorous from agriculture to surface waters in Flanders |
| 163 | Klages | Susanne | DE | Nitrogen surplus- a unified indicator for Europe? |
| 167 | Boekhold | Alexandra | NL | Innovative governance approaches to protect drinking water resources against nitrate and pesticide pollution from agriculture |
| 171 | Pacholski | Andreas | DE | The role of nitrification inhibitors to control reactive N transport from the root zone |
| 172 | Thomas | Ian | IE | Improving national mapping of critical source areas of phosphorus and nitrogen losses in Irish agricultural catchments to support policy |
| 173 | Dupas | Rémi | FR | Data-driven quantification of nitrate retention and transit time distribution in agricultural catchments |
| 174 | van der Grift | Bas | NL | High-frequency monitoring reveals nutrient sources and transport processes at farm level |
| 175 | Stenberg | Maria | SE | A voluntary initiative for long-term changes in farmer attitude and behaviour |
| 176 | Hasler | Berit | DK | Cost-effective implementation of agri-environmental schemes for nutrient abatement and climate mitigation: A case study in the Baltic Sea region |
| 179 | Duncan | Emily | US | Cover crops and nutrient loss from the edge-of-field network in northwest Ohio, USA |
| 180 | Commelin | Meindert | NL | Effectiveness of agricultural management practices to reduce pesticide pollution to ground and surface waters – a meta-analysis |
| 182 | Groenendijk | Piet | NL | Review of measures to decrease nitrate pollution of drinking water |

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| 183 | Stutter | Marc | GB | Typing catchments for risk and resilience factors in P pollution and waterbody impacts: Supporting landscape planning |
| 187 | Kraft | Michael | DE | Influence of drought on soil water dynamics and nitrate concentrations on agricultural sites in southwestern Germany |
| 188 | Verguts | Veerle | BE | Scientific research to support agricultural nutrient management policy in Flanders |
| 194 | Schönhart | Martin | AT | Effectiveness of management measures to reduce nitrogen loads from agriculture in temperate regions under climate change |
| 195 | Rozemeijer | Joachim | NL | Monitoring for a spatial targeting approach for nutrients |
| 199 | Kardos | Máté Krisztián | HU | Spatio-temporal optimization of monitoring networks with respect to water body classification |
| 200 | Dickey | John | US | Quantifying nitrate leaching from Central Valley irrigated lands with the Soil & Water Assessment Tool (SWAT) |
| 202 | Mockler | Eva | IE | Reducing nutrient losses to water will improve water quality and save farmers money |
| 208 | Rosendorf | Pavel | CZ | Regional, seasonal and inter-annual patterns of phosphorus and nitrogen runoff from agricultural watersheds in the Czech Republic after period of fertilization change |
| 210 | Holten | Roger | NO | The effect of freezing and thawing on water flow and MCPA leaching in partially frozen soil |
| 211 | Lischeid | Gunnar | DE | Artefacts and pitfalls in assessing land use effects on groundwater, stream and pond water quality |
| 213 | Bleeker | Albert | NL | Evaluating the Dutch pesticide policies: How successful were they in reaching the targets of the Water Framework Directive? |
| 214 | Thorling | Lærke | DK | Thirty years of national monitoring of groundwater and surface water in Denmark |
| 215 | Vandermoere | Stany | BE | Reducing phosphorus (P) losses from drained agricultural fields with iron coated sand (-glauconite) filters |
| 216 | Knouft | Jason | US | Influence of best management practices on contemporary and future water resources and biodiversity: A watershed-scale assessment in the Midwestern United States |
| 217 | Chambers | Patricia | CA | Hydrological variability affects particulate nitrogen and phosphorus in streams of prairie Canada |
| 218 | Emmert | Martin | DE | Risk management and risk-oriented groundwater monitoring in well catchment areas |

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| 220 | Strauch | Michael | DE | Land use optimization based on scenario analysis: An approach to foster multifunctionality in agricultural landscapes |
| 221 | Maxwell | Iain | NZ | The power of collaboration and partnerships, moving from problems to solutions through community engagement and landowner participation: The success story of Whangawehi Stream, New Zealand |
| 224 | Waterloo | Maarten | NL | Benefits of a participatory approach to monitoring surface water quality [presented by Sieger Burger] |
| 225 | Waterloo | Maarten | NL | Assessment of the effect of water quality measures under current and future climate and farming scenarios using a two-step modelling approach |
| 226 | Elliott | Jane | CA | Soil and water management for nutrient control in the Northern Great Plains of Canada and the USA |
| 227 | Deakin | Jenny | IE | From science to action – the Irish approach to improving water quality |
| 229 | Gassmann | Matthias | DE | PFAS – a new class of emerging agrochemicals? |
| 230 | Buckley | Cathal | IE | The disconnect between nutrient demand and supply at farms scale: The potential of better nutrient management to achieve better outcomes |
| 231 | Bikse | Janis | LV | New data on nitrate distribution in shallow groundwater for optimization needs of national nitrates groundwater monitoring in Latvia |
| 235 | Svendsen | Lars | DK | Baltic Sea Action Plan: Assessing progress towards fulfilling nutrient reduction targets as prerequisite for a non-eutrophied marine environment |
| 237 | Gertz | Flemming | DK | Catchment officers – a new water management approach in Denmark |
| 238 | Kjaergaard | Charlotte | DK | Constructed wetlands targeting nutrient removal in agricultural drainage discharge: A new cost-effective mitigation strategy in Denmark |
| 239 | de Jonge | Martin | NL | Nitrate, hardness and herbicide metabolites in 40 wellfields in the Eastern Netherlands |
| 242 | van Vliet | Marielle | NL | Forecasting nitrate concentrations in Dutch chalk springs using tritium based travel time distributions |
| 243 | Petersen | Jonas | DK | Groundwater protection in Denmark: Getting to yes using BIG data |
| 245 | Broers | Hans Peter | NL | Trends in age-dated groundwater: Analysing diffuse groundwater pollution in the Dutch Meuse River basin |
| 246 | van Loon | Arnaut | NL | Impact of past and current pesticide use on groundwater sources used for drinking water production in the Netherlands |
| 247 | Stenrød | Marianne | NO | Glyphosate and the sustainability of cropping practices in northern climate |
| 248 | Strömqvist | Johan | SE | A new national rainfall-runoff and water quality model for England |
| 249 | Brouyère | Serge | BE | A combined stable isotope – pharmaceutical compounds approaches for the characterization of nitrate sources in groundwater |

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| 252 | Rakovic | Jelena | SE | Unravelling the relative importance of different phosphorus forms for transfer processes at the agricultural catchment scale |
| 253 | Andjelov | Miso | SI | Modelling of nutrient fluxes in Slovenia for the report on implementation of the Nitrates Directive for the period 2012-2015 |
| 254 | Daatselaar | Co | NL | Towards more land-based dairy farming in the Netherlands: Effects on nutrient surpluses and nitrate concentration |
| 255 | van Leeuwen | Ton | NL | Improving representativeness of national and regional outcomes on nitrogen surpluses and water quality by weighing of farm results |
| 257 | Mellander | Per-Erik | IE | Large-scale weather changes and weather extremes influence on phosphorus loss to small agricultural rivers |
| 259 | Phillips | Natalie | GB | Investigating atmospheric and terrestrial exceedances at GWDTes and implications for regulation |
| 260 | Gömann | Horst | DE | Development and assessment of regionally adapted agricultural nitrogen reduction measures to reach groundwater and surface water quality targets in North Rhine-Westphalia (NRW), Germany |
| 261 | Vernier | Françoise | FR | A decision-making information system to support the governance of territories with water issues |
| 265 | De Nies | Joris | BE | From a voluntary sustainable fertilisation programme towards a dual policy with mandatory guidance if needed |
| 266 | Linefur | Helena | SE | Agriculture in a changing climate – what can we learn from monitoring? |
| 268 | Guillemot | Stella | FR | Controls on the spatial and seasonal variations of nutrient concentrations (C, N, P) of headwater catchments at regional level |
| 270 | de Koeijer | Tanja | NL | The economic and environmental effects of derogation on dairy farms in the Netherlands |
| 271 | Christel | Wibke | DK | “Targeting regulation”: The challenge of addressing varying nutrient reduction need in aquatic bodies, while maintaining equal regulatory constraints for farmers |
| 273 | Prins | Henri | NL | Farm management, nutrient results and water quality with focus on maize |
| 274 | Howden | Nicholas | GB | Catchment water quality responses across scales and historical loading: How monitoring data may be both informative and misleading |
| 275 | Blicher-Mathiesen | Gitte | DK | A new targeted regulation of agriculture in Denmark |
| 279 | Gascuel-Oudou | Chantal | FR | Science-policy interfaces on two cases: Drinking water and eutrophication, from the French experience |
| 284 | Hitzfeld | Kristina | DE | Small, vulnerable and largely ignored in the past – UBA initiative for an event-driven monitoring of pesticide residues in small surface waters in German agricultural landscapes |

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| 288 | Middleton | Bob | GB | Evidence-led: Improving catchment management through the use of evidence |
| 289 | Stubsgaard | Eike Freeman | DK | Targeted measures in main groundwater recharge areas in the Aarhus Municipality |

Abstracts accepted for POSTER PRESENTATION

| Abstract no. | Surname | First Name | Country | Abstract Title |
|--------------|---------------|------------|---------|--|
| 2 | Putthividhya | Aksara | TH | Long-term monitoring-modelling of agricultural contamination with nitrate in groundwater systems of Thailand |
| 8 | Wenng | Hannah | NO | Effects of land use on nutrient losses from small agricultural catchments in Norway |
| 9 | McCormack | Michele | IE | A Technology Acceptance Model of factors influencing farmer adoption of |
| 10 | Fletcher | James | US | Implementing irrigation best management practices for water resource protection in central Florida |
| 11 | Jiang | Sanyuan | CN | Effects of stream nitrate data frequency on watershed model performance and prediction uncertainty |
| 14 | Cameron | Carolyn | AU | Delivering policies for cumulative impact management and net benefits to manage land based runoff and improve the resilience of the Great Barrier Reef |
| 16 | Collins | Adie | GB | Combining source tracing and process-based modelling to predict the potential impact of on-farm interventions for sediment mitigation at landscape scale |
| 21 | Chivers | Charlotte | GB | Utilising hard evidence tools to improve farm advice relating to water quality |
| 27 | Baker | Mary-Anne | NZ | A community based approach to water management decisions |
| 28 | Botero-Acosta | Alejandra | US | Contemporary and future effects of environmental stressors on non-point source pollution in an intensively managed watershed |
| 29 | Stever-Schoo | Burkhard | DE | Indicators for the early detection of nitrate loads in soil under crop production: A demonstration project |
| 32 | Manley | Amber | GB | A laboratory scale sterol degradation study for slurry biomarkers and nutrient associations |
| 33 | Dhaese | Kristiaan | BE | Nitrate removal rate in a 'in-ditch'-woodchip bioreactor in Flanders (Belgium) |
| 34 | Strand | John | SE | Nutrient monitoring as a base for status classification in the Water Framework Directive: The importance of location of sampling points |

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|----|----------------|----------|----|--|
| 40 | Wey | Hannah | CH | Monitored risk management for nitrate leaching from arable fields above a groundwater aquifer |
| 42 | Fletcher | James | US | Florida Fertilizer Ordinance mobile web app matches work locations to applicable regulations [presented by Esen Momol] |
| 45 | Valkama | Elena | FI | Controlling of nitrogen leaching through conservation agriculture in Kazakhstan |
| 46 | Momol | Esen | US | Florida's Green Industries Best Management Practices training promotes sustainable urban landscapes [presented by Taylor Clem] |
| 48 | Zhang | T.Q. | CA | Modelling climate change impacts on crop yield and P loss in a tile-drained field of Lake Erie basin |
| 49 | Jabro | Jay | US | Tillage effects on nitrate leaching through unsaturated zone under irrigated corn-soybean production |
| 50 | Goeller | Brandon | NZ | Siting, scaling, and selecting edge-of-field tools to attenuate contaminants across agricultural landscapes |
| 54 | Kühling | Insa | DE | Effects of reduced N-fertilisation strategies on yield parameters and water quality in the drinking water abstraction area Belm-Nettetal (Lower-Saxony, Germany) |
| 55 | Sofo | Adriano | IT | Water and soil quality in Mediterranean orchards managed with sustainable or conventional systems |
| 57 | Jensen | Ditte | DK | Variations in the Danish permit practice and the resulting differences in urban discharge of stormwater to the recipients |
| 60 | Li | Hengpeng | CN | Agricultural nitrogen emissions in response to historical shifts (1980s-2010s) of fertilizer application in the Taihu Lake Basin, China |
| 62 | Petros | Peter | FI | Improving knowledge on water table control in drained cultivated peatland sites: Hydrological studies to assist in GHG emissions mitigation |
| 64 | Glendell | Miriam | GB | Applying complementary modelling approaches to link phosphorus pollution and ecological impact – an example from Scotland |
| 72 | Zhang | Yi-Fan | AU | SSIM – A deep learning approach for recovering missing time series sensor data |
| 76 | Frick | Hanna | CH | Tracing the fate of 15N-labelled animal manure in the environment |
| 77 | Streng | Eva | AT | PhosFate: A model for cost-effective management of phosphorous emissions in watersheds by the localisation of emission hotspots |
| 79 | Molina-Navarro | Eugenio | DK | Modelling the impact of climate and land use changes in the ecological status of the Odense Fjord basin's streams using Bayesian Belief Networks |

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| 80 | Zupanc | Vesna | SI | Water quality in vulnerable and shallow aquifers under intensive vegetable production zone |
| 82 | Gair | Jonathan | GB | Quantifying groundwater nitrogen pollution risk using statistical emulation of a process-based water quality model: An example for Scotland |
| 84 | Liang | Kang | CA | Mitigation of nitrogen leaching from potato-based rotations in Atlantic Canada: New insights from a nitrogen budget and dynamic analysis |
| 87 | Bolster | Carl | US | Evaluating the potential for calculating the degree of P saturation from ammonium lactate extractable Al, Fe, and P |
| 88 | Vogeler | Iris | DK | Catch crops for increasing nitrogen use efficiency in cropping systems |
| 90 | Holbak | Maja | DK | Calibration and validation of the Daisy model for predicting pesticide leaching |
| 92 | Bastani | Mehrdad | US | Crop selection and agricultural managed aquifer recharge as BMPs to improve nitrate in public water supplies |
| 93 | Kronvang | Brian | DK | A conceptual mini-catchment typology for analyzing eutrophication risks in surface waters in the Nordic countries |
| 98 | Kim | Hyojin | DK | Complex nitrate pathways in two Danish catchments: Importance for the future targeted N regulation of agriculture |
| 99 | Wheeler | David | NZ | Uncertainty in a farm-scale model for estimating N leaching |
| 101 | Moran | Emma | NZ | Agriculture, water quality and accounting for nutrient losses in Southland, New Zealand |
| 102 | Bastani | Mehrdad | US | Evaluation of upscaling temporal resolution on groundwater nitrate transport simulations |
| 103 | Quaglia | Gisela | BE | A model for spatial targeting of landscape measures to reduce impact of pesticides in surface water |
| 106 | McClain | Cynthia | CA | Nitrate occurrence in groundwater of Alberta, Canada |
| 108 | Kouba | Claire | US | Total salt loads and specific thresholds: Can two California regulatory schemes work together? |
| 110 | Singh | Ranvir | NZ | Benign denitrification in shallow groundwaters |
| 119 | Kaste | Øyvind | NO | Counteracting effects of climate and land-use change on riverine element runoff? A combined analysis of Norwegian natural and agricultural headwater catchments and large rivers' monitoring data |
| 122 | Holm | Helle | DK | Combining information from aerial photography with root zone and drainage water to document how areas with limited growth led to higher nitrogen loss |
| 123 | Hashemi | Fatemeh | DK | Analysis of mitigation measures at farm and landscape scales to obtain targeted nitrate reduction in a Danish catchment |

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| 126 | Stenger | Roland | NZ | Critical Pathways: Unravelling sub-catchment scale nitrogen delivery to waterways |
| 128 | Burbery | Lee | NZ | In-stream woodchip denitrifying bioreactor trial, New Zealand |
| 129 | Marttila | Hannu | FI | Nordic bioeconomy and surface water quality, how do they interact? |
| 134 | Friedel | Michael | NZ | Identifying climate- and land-use change signals in a freshwater ecosystem, |
| 138 | Mehrtens | Anne | DE | Tracking veterinary pharmaceuticals: Combined field and laboratory experiments on the fate of veterinary pharmaceuticals in the environment |
| 139 | Jordan | Phil | GB | Short rotation coppice willow for waste-water effluent irrigation: Experience and considerations for future assessment |
| 140 | Jordan | Phil | GB | A catchment scale monitoring solution for MCPA: Time and space considerations |
| 141 | Weeber | Marc | NL | Bridging the gap between national models and datasets and the field scale selection of cost effective mitigation options to reduce nutrient losses |
| 143 | Krogh | Signe | DK | Groundwater protection in Denmark: Target regulation as a supplement to general protection regulation |
| 146 | Carstensen | Mette | DK | Efficiency of measures reducing nutrient losses from agricultural drainage |
| 148 | Brussée | Timo | NL | Relationship between organic matter in sandy soil layers and nitrate concentrations in groundwater |
| 150 | Turner | Ryan | AU | Monitoring real-time sediment and nitrate in catchments for the protection of the Great Barrier Reef |
| 151 | Riley | Meagan | US | Love that dirty water? Investigating the effects of climate change on water quality in the Charles River Watershed |
| 154 | Skaalsveen | Kamilla | GB | Assessing the impact of no-till on water related soil functions and the role of farmer networks in knowledge exchange and implementation: Results from interdisciplinary research |
| 155 | Blankenberg | Anne-Grete | NO | Bufferzones along streams: Good for environment but bad for food production? |
| 156 | Simpson | Zachary | NZ | Meta-analysis of stream sediment phosphorus buffering at baseflow |
| 159 | Vuaille | Jeanne | DK | Effect of pesticide application timing on pesticide leaching to drains: predicting the optimum application date |
| 164 | Rankinen | Katri | FI | Effects of climate and land use change on water quality in Finnish rivers |
| 165 | | | | Soil functions assessments as a means for sustainable water and land use management planning: A regional scale exploration of their sensitivity toward processes of global change |
| 166 | Jost Yang | Elisabeth Xiaoqiang | AT DE | In-stream autotrophic nitrate uptake modelling at river network scale based on continuous high frequency data |

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| 168 | Shedekar | Vinayak | US | Role of cover crops in water budget and nutrient losses in subsurface drained landscapes of Midwestern United States |
| 169 | Øy garden | Lillian | NO | Scenarios for agricultural production systems, land use and environmental effects in a future with bioeconomy |
| 170 | Bartosova | Alena | SE | Exploring global sediment sources, processes, and impacts with a global dynamic model |
| 177 | Ghaffar | Salman | DE | Spatio-temporal evaluation of a semi-distributed hydrological water quality model in central Germany |
| 178 | Stutter | Marc | GB | Effective targeting of novel riparian buffer designs |
| 181 | Carnohan | Shane | DK | Integrating stakeholder narratives and simulation modelling to support water resource management in data-scarce environments |
| 184 | Hansen | Gail | US | Comparing various irrigation, plant, and turfgrass combinations to improve water conservation and quality in Florida's urban landscapes |
| 185 | Damala | Polyxeni | BE | Development of a sensor for monitoring nitrate in groundwater |
| 186 | Troldborg | Mads | GB | Combining detailed land use data with national surveys on pesticide usage to better understand the spatiotemporal variability of pesticides in a Scottish catchment |
| 190 | Owens | Phillip | US | Long-term spatial distribution of P and other elements following poultry litter applications |
| 191 | Burke | Victoria | DE | On the fate of veterinary pharmaceuticals in the unsaturated zone – a lysimeter study |
| 192 | Ashworth | Amanda | US | Developing best management strategies for reducing soluble phosphorus losses from poultry litter in grazing systems |
| 193 | Reynaert | Sofie | BE | Estimate of nitrate leaching out of the root zone of irrigated potato considering the variability in soil properties within the field |
| 196 | Rozemeijer | Joachim | NL | Climate variability effects on chemical and ecological quality of groundwater, lakes, rivers, and coastal waters in the Netherlands |
| 197 | Urbanc | Janko | SI | Estimation of nitrate leaching from agricultural fields by means of mini lysimeters |
| 198 | Vu | Ngoc Quynh | DE | Application of calibrated reagent-free spectrophotometry in determining nitrate in river water |
| 201 | King | Warren | NZ | Next generation farming systems: Transformation by design |
| 203 | Dynes | Robyn | NZ | Development of next generation farming systems using a multi-criteria decision making framework |

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| 204 | Read | John | US | Rainfall simulation study to assess nitrogen and phosphorus loads in runoff and leachate from Marietta soil amended with poultry litter and cattle manure |
| 205 | Thodsen | Hans | DK | Phosphorous content in Danish riverbanks |
| 207 | Li | Sheng | CA | Hydrology and water quality observed at the outlet of a small agricultural watershed in Atlantic Canada: Effects of climate and land use |
| 212 | Vinten | Andrew | GB | Development of a hydraulic model for water management in the Lunan Water, Scotland |
| 219 | Futter | Martyn | SE | Phosphorus mass balances in Swedish agricultural catchments |
| 223 | Thorling | Lærke | DK | Representative monitoring of the impact of land use on groundwater quality |
| 232 | Graversgaard | Morten | DK | Lessons learned from groundwater protection on the Island of Tunø: Are successful mitigation of nitrate exceedances determined by both farmer commitment as well as enforcement mechanisms? |
| 233 | Jakubinský | Jiří | CZ | Importance of riparian habitats lining small streams to improve the soil water retention capacity of agricultural landscape |
| 234 | Balashova | Natalia | GB | How effective are catchment-based approaches in reducing metaldehyde loss to water supply at a catchment scale |
| 236 | Pedersen | Betina | DK | Cover crop effect on nitrate leaching following application of solid animal manure and mineral fertilizer |
| 240 | Ertaş | Alperen | TR | Determination of the water quality of Balaban Stream (drinking water source of Izmir) in terms of macrozoobenthic organisms |
| 241 | Rolighed | Jonas | DK | Parameters for a simple Langmuir-based phosphorus leaching model |
| 250 | Retike | Inga | LV | Assessment of seasonal changes in spring water chemistry for national groundwater monitoring optimisation in Latvia |
| 251 | Verguts | Veerle | BE | Action programme in execution of Nitrates Directive (MAP6) in Flanders: Towards an intensified tailor-made area specific approach |
| 256 | Doornewaard | Gerben | NL | Best performing dairy farms in the Netherlands: Their results, strategy and management |
| 258 | Zhou | Xiangqian | DE | The effect of river geomorphology on nitrate retention at network scale in Bode catchment, central Germany |
| 263 | Aly Jr | Osvaldo | BR | The situation of water resources in agricultural establishments (farms) in Brazil: An analysis of the agricultural livestock census of 2006 and 2017 |
| 264 | Kjaergaard | Charlotte | DK | Differentiated landscape based strategies for optimized implementation of drainage filter technologies targeting agricultural nutrient losses |
| 267 | Grekov | Valeriy | UA | Operational monitoring of land use and field surface runoff |

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| 269 | Kyllmar | Katarina | SE | Implementation of water retention measures in catchments - a multi-functional and multi-actor approach |
| 272 | Deelstra | Johannes | NO | Variability in subsurface drainage behaviour – do soil physical parameters change over time? |
| 276 | Mezei-Giber | Alexandra | DE | Quantification of nitrate reduction potential and kinetics of soil samples obtained from sandy aquifers, Schleswig-Holstein, Germany |
| 278 | Young | Madaline | NL | Development of a decision support framework to evaluate the impacts of agricultural management on crop, soil, and environmental quality |
| 280 | de Klein | Jeroen | NL | Modelling GHG emissions from shallow eutrophic surface waters |
| 281 | Reid | Keith | CA | Spatial and temporal trends in risk of phosphorus Loss from agriculture in Canada |
| 282 | Carr | Stephen | AU | Monitoring and managing soil acidity on a catchment scale in the Western Australian wheat belt |
| 285 | Allen | Brett | US | Fertilizer N rates to optimize bioenergy feedstock production and water quality in semi-arid environments |
| 286 | Lescot | Jean-Marie | FR | Tackling water issues in the Charente River basin through greater cohesion between coastal and inland activities: the COASTAL Project |
| 291 | Paneru | Carolin | DE | Effects of agricultural land use on nitrate concentrations at catchment scale |
| 296 | Bauwe | Andreas | DE | Land management governs nitrate losses: A modelling study |