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Research outputs:

Changes in microbial water quality in RAS following altered feed loading
Research output: Research - peer-review › Journal article – Annual report year: 2018

Confirmation that pulse and continuous peracetic acid administration does not disrupt the acute stress response in rainbow trout
Research output: Research - peer-review › Journal article – Annual report year: 2018

Determination of required ozone dosage in freshwater pilot recirculating aquaculture systems and ozone effect on water quality parameters
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Ozonation control and effects of ozone on water quality in recirculating aquaculture systems
Research output: Research - peer-review › Journal article – Annual report year: 2018

Peracetic acid – a greener solution for disinfecting aquaculture systems
Research output: Research › Conference abstract for conference – Annual report year: 2018

The response of fluorescent organic matter to ozone treatment in pilot freshwater RAS
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Towards control of unwanted cyst-forming dinoflagellates in aquaculture systems: Knockout and recovery of Pfiesteria sp. after peracetic acid exposure
Research output: Research - peer-review › Journal article – Annual report year: 2018

Toxicity of peracetic acid to fish: Variation among species and impact of water chemistry; PAA toxicity to various fish
Research output: Research - peer-review › Journal article – Annual report year: 2018

Alternative prophylaxis/disinfection in aquaculture - Adaptable stress induced by peracetic acid at low concentration and its application strategy in RAS
Research output: Research - peer-review › Journal article – Annual report year: 2017

Bacterial activity dynamics in the water phase during start-up of recirculating aquaculture systems
Research output: Research - peer-review › Journal article – Annual report year: 2017

Influence of fixed and moving bed biofilters on micro particle dynamics in a recirculating aquaculture system
Research output: Research - peer-review › Journal article – Annual report year: 2017
Los pros y los contras del percarbonato de sodio
Research output: Research › Journal article – Annual report year: 2017

Micro particles in Danish Model Trout Farms
Research output: Research › Conference abstract in proceedings – Annual report year: 2017

Monitoring abrupt changes in bacteria within biological stable RAS water
Research output: Research › Conference abstract in proceedings – Annual report year: 2017

Optimizing RAS operations by new measures
Research output: Research › Editorial – Annual report year: 2017

Optimum ozonation of freshwater pilot recirculating aquaculture system - Water quality
Research output: Research › Conference abstract in proceedings – Annual report year: 2017

Ozonation of recirculating aquaculture system based on system’s demand
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Particle surface area and bacterial activity in recirculating aquaculture systems
Research output: Research - peer-review › Journal article – Annual report year: 2017

Periodic bacterial control with peracetic acid in a recirculating aquaculture system and its long-term beneficial effect on fish health
Research output: Research - peer-review › Journal article – Annual report year: 2017

Prediction of required ozone dosage for pilot recirculating aquaculture systems based on laboratory studies
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Pulse versus continuous peracetic acid applications: Effects on rainbow trout performance, biofilm formation and water quality
Research output: Research - peer-review › Journal article – Annual report year: 2017

Semi-continuously addition of peracetic acid to a flow-through fish farm: Technical note
Research output: Research - peer-review › Journal article – Annual report year: 2016

The pros and cons of sodium percarbonate
Research output: Research › Journal article – Annual report year: 2017

Use of fluorescence spectroscopy to control ozone dosage in recirculating aquaculture systems
Research output: Research - peer-review › Journal article – Annual report year: 2017

Acute toxicity of peracetic acid to fish
Research output: Research › Conference abstract for conference – Annual report year: 2016

Assessing the effectiveness of peracetic acid to remediate post-vaccination Saprolegnia spp.-associated mortality in Atlantic salmon Salmo salar parr in recirculation aquaculture systems
Research output: Research › Conference abstract for conference – Annual report year: 2016

Disinfection with peracetic acid (PAA), an alternative against fish pathogens
Research output: Research › Conference abstract for conference – Annual report year: 2016
Effects of feed loading on microbial water quality in RAS
Research output: Research › Conference abstract for conference – Annual report year: 2016

Impact of temperature on ammonium and nitrite removal rates in RAS moving bed biofilters
Research output: Research › peer-review › Journal article – Annual report year: 2016

Investigating the effectiveness of peracetic acid water disinfection to reduce post-vaccination Saprolegnia spp.-associated mortality in Atlantic salmon Salmo salar paa while assessing impact on nitrification in replicated Recirculating Aquaculture Systems
Research output: Research › Conference abstract for conference – Annual report year: 2016

Linking water treatment practices and fish welfare
Research output: Research › Journal article – Annual report year: 2016

Microbial water quality - tools and challenges
Research output: Research › Conference abstract for conference – Annual report year: 2016

Nye miljøvenlige desinfektionsmidler til økologiske dambrug
Research output: Research › Journal article – Annual report year: 2016

Peracetic acid is a suitable disinfectant for recirculating fish-microalgae integrated multi-trophic aquaculture systems
Research output: Research › peer-review › Journal article – Annual report year: 2016

Pulse vs. Continuous treatment: which is better for applying peracetic acid in RAS?
Research output: Research › Conference abstract for conference – Annual report year: 2016

Acute toxicity of peracetic acid (PAA) to fish
Research output: Research › Conference abstract for conference – Annual report year: 2016

Acute toxicity of peracetic acid to various fish species
Research output: Research › Conference abstract in proceedings – Annual report year: 2015

Biofilter effects on micro particle dynamics
Research output: Research › Conference abstract in proceedings – Annual report year: 2015

Characterising organic matter in recirculating aquaculture systems with fluorescence EEM spectroscopy
Research output: Research › peer-review › Journal article – Annual report year: 2015

Comparison of the toxicity of Wofasteril Peracetic Acid formulations E400, E250, and Lspez to Daphnia magna with emphasis on the effect of hydrogen peroxide
Research output: Research › peer-review › Journal article – Annual report year: 2015

Degradation of urea, ammonia and nitrite in moving bed biofilters operated at different feed loadings
Research output: Research › peer-review › Journal article – Annual report year: 2015

Fish-friendly prophylaxis/disinfection in aqu-culture: Low concentration of peracetic acid is stress-free to the carp (Cyprinus carpio) after repeated applications
Research output: Research › Conference abstract for conference – Annual report year: 2016

Growth inhibition of Aeromonas salmonicida and Yersinia ruckeri by disinfectants containing peracetic acid
Research output: Research › peer-review › Journal article – Annual report year: 2015
Hydrogen peroxide decomposition kinetics in aquaculture water
Research output: Research - peer-review › Journal article – Annual report year: 2015

Interactions between micro-particles and the rearing environment in recirculation aquaculture systems
Research output: Research › Ph.D. thesis – Annual report year: 2015

Microbial water quality dynamics in RAS during system start-up
Research output: Research › Conference abstract in proceedings – Annual report year: 2015

Microscreen effects on water quality in replicated recirculating aquaculture systems
Research output: Research › peer-review › Journal article – Annual report year: 2014

Monitoring RAS organic matter by fluorescence EEM spectroscopy
Research output: Research › Conference abstract in proceedings – Annual report year: 2015

Netværk for formalinudfasning
Research output: Research › Report – Annual report year: 2016

Nitrification performance and robustness of fixed and moving bed biofilters having identical carrier elements
Research output: Research › peer-review › Journal article – Annual report year: 2014

Peracetic acid products expand sanitizing, organic water treatment options
Research output: Research › Journal article – Annual report year: 2015

Recirculation technology getting mature: Preface
Research output: Research › peer-review › Journal article – Annual report year: 2015

Room for all? - particulate surface area and bacterial activity in RAS
Research output: Research › Conference abstract in proceedings – Annual report year: 2016

Sanitizing with peracetic acid (PAA)-An alternative treatment to use in aquaculture?
Research output: Research › Conference abstract for conference – Annual report year: 2016

Udvikling af dansk økologisk yngelopdræt
Research output: Research › Report – Annual report year: 2015

Daily micro particle distribution of an experimental recirculating aquaculture system – A case study
Research output: Research › peer-review › Journal article – Annual report year: 2014

End-of-pipe single-sludge denitrification in pilot-scale recirculating aquaculture systems
Research output: Research › peer-review › Journal article – Annual report year: 2014

Ozone in a jar: water treatment with peracetic acid products
Research output: Research › Conference abstract for conference – Annual report year: 2014

Removal of urea, ammonium and nitrite in moving bed biofilters operated at different loadings
Research output: Research › Conference abstract for conference – Annual report year: 2014

Research output: Research › Report – Annual report year: 2014
Robustfish: New possibilities for growth and robustness in organic aquaculture
Research output: Research › Poster – Annual report year: 2014

Salinity, dissolved organic carbon and water hardness affect peracetic acid (PAA) degradation in aqueous solutions
Research output: Research › peer-review › Journal article – Annual report year: 2014

Water quality in an experimental Recirculating Aquaculture System as affected by biofilter mode of operation
Research output: Research › Conference abstract for conference – Annual report year: 2014

Biofilter nitrification performance in replicated RAS at different salinities
Research output: Research › Conference abstract for conference – Annual report year: 2014

Biofilter-specific responses to intense water treatment in RAS
Research output: Research › Conference abstract for conference – Annual report year: 2014

Drifts- og miljømæssig optimering af recirkulerede opdrætsanlæg
Research output: Research › Report – Annual report year: 2013

Effect of water hardness on peracetic acid toxicity to zebrafish, Danio rerio, embryos
Research output: Research - peer-review › Journal article – Annual report year: 2012

Introduktion og ny viden om hjælpestoffer i danske akvakultur
Research output: Research › Report – Annual report year: 2013

Mesh size effects on water quality in replicated Recirculating Aquaculture Systems
Research output: Research › Conference abstract for conference – Annual report year: 2014

Microbial water quality – concepts and examples
Research output: Research › Conference abstract for conference – Annual report year: 2015

Nutrient digestibility and growth in rainbow trout (Oncorhynchus mykiss) are impaired by short term exposure to moderate supersaturation in total gas pressure
Research output: Research - peer-review › Journal article – Annual report year: 2013

Peracetic acid degradation in freshwater aquaculture systems and possible practical implications
Research output: Research - peer-review › Journal article – Annual report year: 2012

Preface: Recirculation technology: science meets practice
Research output: Research - peer-review › Journal article – Annual report year: 2012

Water treatment in recirculating aquaculture systems – challenges and perspectives of using easy degradable aquaculture sanitizers
Research output: Research › Conference abstract for conference – Annual report year: 2015

Effects of feed loading on nitrogen balances and fish performance in replicated recirculating aquaculture systems
Research output: Research - peer-review › Journal article – Annual report year: 2012

Hydrogen peroxide application to a commercial recirculating aquaculture system
Research output: Research - peer-review › Journal article – Annual report year: 2011
Impact of water boundary layer diffusion on the nitrification rate of submerged biofilter elements from a recirculating aquaculture system
Research output: Research › peer-review › Journal article – Annual report year: 2012

Low-dose hydrogen peroxide application in closed recirculating aquaculture systems
Research output: Research › peer-review › Journal article – Annual report year: 2012

Move or rest: Nitrification performance of fixed bed and moving bed biofilters
Research output: Research › Conference abstract for conference – Annual report year: 2012

Når fysikken styrer de biologiske processer - med nitifikation i biofilter som eksempel
Research output: Research › Journal article – Annual report year: 2012

Study tests disinfectant alternatives to formalin
Research output: Communication › Journal article – Annual report year: 2012

Test and implementation of easy degradable aquaculture sanitizers
Research output: Research › Conference abstract for conference – Annual report year: 2012

Application and analytical verification of peracetic acid use in different types of freshwater aquaculture systems
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

Controlling effluents from RAS – waste management strategies important for commercial RAS sustainability
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

Dambrugsteknologi – Formalinsubstitution: Undersøgelse af vandbehandlingspraksis med brintoverilte og pereddikesyreprodukter på forskellige typer dambrug
Research output: Research › Report – Annual report year: 2011

Dambrugsteknologi – reduktion af kvælstofudledning fra Modeldambrug: Undersøgelse af biofilterelementer, biofilterkinetik og forhold af betydning for nitrifikationen
Research output: Research › Report – Annual report year: 2011

Entwicklungen in der dänischen Fischzucht: nachhaltige Umweltmaßnahmen zahlen sich aus
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

Entwicklungstendenzen in der dänischen Aquakultur-neue Anregungen für eine umweltneutrale Produktionssteigerung
Research output: Research › Book chapter – Annual report year: 2012

Formalin substitution; Undersøgelse af vandbehandlingspraksis med brintoverilte og pereddikesyreprodukter på forskellige typer dambrug: Fra: Dambrugsteknologi. Samlerapport
Research output: Research › Report – Annual report year: 2011

Influence of feed ingredients on water quality parameters in RAS
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

Modeling of TAN in recirculating aquaculture systems by AQUASIM
Research output: Research › Conference abstract in proceedings – Annual report year: 2011

Undersøgelse af biofilterelementer, biofilterkinetik og forhold af betydning for nitrifikationen: Fra: Dambrugsteknologi. Samlerapport
Research output: Research › Report – Annual report year: 2011
Undersøgelse af vandbehandlingspraksis med brintoverilte og pereddikesyreprodukter på forskellige typer dambrug
Research output: Research › Report – Annual report year: 2011

Degradation and effect of hydrogen peroxide in small-scale recirculation aquaculture system biofilters
Research output: Research › peer-review › Journal article – Annual report year: 2010

Hydrogen peroxide: Disinfectant for recirculating aquaculture systems
Research output: Research › Journal article – Annual report year: 2010

Long term/low dose formalin exposure to small-scale recirculation aquaculture systems
Research output: Research › peer-review › Journal article – Annual report year: 2010

Undersøgelse af miljøvenlige dambrugshjælpestoffer til erstatning for formalin
Research output: Research › Report – Annual report year: 2010

Fate of water borne therapeutic agents and associated effects on nitrifying biofilters in recirculating aquaculture systems
Research output: Research › Ph.D. thesis – Annual report year: 2009

Field-studies of the fate of formaldehyde applied in three different types of Danish freshwater fish farms
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Hydrogen peroxide application in recirculating aquaculture systems - results and perspectives
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Peracetic acid degradation and effects on nitrification in recirculating aquaculture systems
Research output: Research › Journal article – Annual report year: 2009

Peracetic acid degradation and effects on nitrification in submerged fixed bed biofilters from recirculating aquaculture systems
Research output: Research › Conference abstract in proceedings – Annual report year: 2009

Pereddikesyre - et voldsomt effektivt hjælpestof
Research output: Research › Journal article – Annual report year: 2009

Recovery by the Norway lobster Nephrops norvegicus (L.) from the physiological stresses of trawling: Influence of season and live-storage position
Research output: Research › peer-review › Journal article – Annual report year: 2009

Formaldehyde induced variation in biofilter performance and microbial composition
Research output: Research › Article in proceedings – Annual report year: 2008

Omsætning af formalin i danske dambrug
Research output: Research › Report – Annual report year: 2008

Optimering af behandlingseffekten i akvakultur: Minimering af forbrug og udledning af hjælpestoffer
Research output: Research › Report – Annual report year: 2008

Swimming performance of wild and F1-hatchery-reared Atlantic salmon (Salmo salar) and brown trout (Salmo trutta) smolts
Research output: Research › peer-review › Journal article – Annual report year: 2008
Application of biofilters to reduce formaldehyde discharge from fish farms
Research output: Research › Conference abstract in proceedings – Annual report year: 2007

Temperature-dependent and surface specific formaldehyde degradation in submerged biofilters
Research output: Research › peer-review › Journal article – Annual report year: 2007

The fate of chemical additives and antimicrobial agents applied in Danish freshwater fish farms
Research output: Research › Journal article – Annual report year: 2007

Dose-dependent decomposition rate constants of hydrogen peroxide in small-scale biofilters
Research output: Research › peer-review › Journal article – Annual report year: 2006

Lovende forsøg med levende jomfruhummere
Research output: Research › Journal article – Annual report year: 2006

Optimering af fangstværdien for jomfruhummere (Nephrops norvegicus) - forsøg med fangst og opbevaring af levende jomfruhummere
Research output: Research › Report – Annual report year: 2006

Temperature dependent formaldehyde degradation in trickling filter
Research output: Research › peer-review › Journal article – Annual report year: 2006

Akvakultur og økologiske løsninger
Research output: Research › Journal article – Annual report year: 2005

Ecological aquaculture - A sustainable solution
Research output: Research › Journal article – Annual report year: 2005

Introduktion af økologi og kvalitetsmærkning på danske pionerdambrug
Research output: Research › Report – Annual report year: 2005

Organic reared trout in Denmark
Research output: Research › Journal article – Annual report year: 2005

Passiv sortering
Research output: Research › Journal article – Annual report year: 2005

Dansk dambrug ved en skillevej
Research output: Research › Journal article – Annual report year: 2004

Erfaringer med økologisk fiskeopdræt i England
Research output: Research › Journal article – Annual report year: 2004

Fiskevelfærd i frembrud
Research output: Research › Journal article – Annual report year: 2004

Motionering af opdrætsfisk
Research output: Research › Journal article – Annual report year: 2004
Repetitive acceleration swimming performance of brown trout (Salmo trutta) in freshwater and after acute seawater exposure
Research output: Research - peer-review › Journal article – Annual report year: 2004

The danish experience
Research output: Research › Journal article – Annual report year: 2004

Undersøgelse af biologiske halveringstider, sedimentation og omdannelse af hjælpestoffer og medicin i dam- og havbrug, samt parameterfastsættelse og verifikation af udviklet dambrugsmodel
Research output: Research › Report – Annual report year: 2004

Undersøgelse af biologiske halveringstider, sedimentation og omdannelse af hjælpestoffer og medicin i dam- og havbrug, samt parameterfastsættelse og verifikation af udviklet dambrugsmodel: Supplerende teknisk rapport
Research output: Research › Report – Annual report year: 2004

Økologisk ørred opdræt i Sverige
Research output: Research › Journal article – Annual report year: 2003

Økologisk ørredopdræt i Sverige
Research output: Research › Journal article – Annual report year: 2003

Status for økologisk akvakultur
Research output: Research › Journal article – Annual report year: 2003

Effects of hunger level and nutrient balance on survival and acetylcholinesterase activity of dimethoate exposed wolf spiders
Research output: Research - peer-review › Journal article – Annual report year: 2002

Erfaringer med økologisk fiskeopdræt i England
Research output: Research › Journal article – Annual report year: 2002

Predation on Atlantic salmon and sea trout during their first days as postsmolts
Research output: Research - peer-review › Journal article – Annual report year: 2002

Projects:

Future growth in sustainable, resilient and climate friendly organic and conventional European aquaculture (FutureEU Aqua) (39494)
Project: Research

Green switch in Danish Aquaculture by changeover to recirculation (GODAOR) (39462)
Project: Research

Micro particles in Aquaculture: cause and effects and ways to remove them
Project: PhD

Development of educational opportunities for Danish aquaculture (39157)
Project: Research

Environmental neutral aquaculture water treatment (MIVANAK) (39295)
Project: Research
Fluorescence analysis and monitoring of recirculating aquaculture systems (FAMoRAS) (39177)
Project: Research

Microbial Water Quality within Aquaculture Recirculation Systems
Project: PhD

Ozonation of semi-closed aquatic systems - Online control
Project: PhD

Development of an electrochemical method to remove nitrate in RAS (Electro-nitrate) (39327)
Project: Research

Efficient and Innovative fish production via best available technology (RAS2020) (39328)
Project: Research

Water treatment technology for microbial stabilization in landbased aquaculture systems (MicStaTech) (39277)
Project: Research

Towards stable water quality in RAS by use of a new rapid microbial test (Biostable water) (39154)
Project: Research

New possibilities for growth and robustness in organic aquaculture (ROBUSTFISH) (39159)
Project: Research

Network towards phasing out formalin in aquaculture (39140)
Project: Research

Sustainable technologies to control microalgae in land based saltwater recirculating systems (39032)
Project: Research

Improved farming technology to optimize production, water quality and disease prevention in model trout farms (FOOP) (38950)
Project: Research

Organic Fry-1: Development of Danish farming of organic trout fry (38951)
Project: Research

DTU centre for recirculation technology (38159)
Project: Research

Innovative practices and technologies for developing sustainable aquaculture in the Baltic Sea region (AQUABEST) (38924)
Project: Research

Marine model trout farms (38816)
Project: Research

Recirculation technology for future aquaculture (REFA) (38843)
Project: Research

Management and environmental improvement of recirculating aquaculture systems (38815)
Project: Research