Henrik Rasmus Andersen - DTU Orbit (26/05/2018)

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Water Technologies

Publications:

Environmentally friendly treatment of highly potent pharmaceuticals in hospital wastewater- Mermiss
Klarskov Møller, K., Møller Jensen, N., Møller, T., Sund, C., Sundmark, K., Prühs, M., Andersen, H. R., Ooi, G. T. H.,
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Danish Water Forum, p. 50-50
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New innovative Moving Bed Biofilm Reactor (MBBR) concept removes pharmaceutical from municipal wastewater using
only biological polishing
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1951
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Selective heavy metal capture from contaminated water
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Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Using mechanisms of hydrolysis and sorption to reduce siloxanes occurrence in biogas of anaerobic sludge digesters
Publication: Research - peer-review › Journal article – Annual report year: 2016

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Publication: Communication › Journal article – Annual report year: 2015

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<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
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<td>Impact of solid retention time and nitrification capacity on the ability of activated sludge to remove pharmaceuticals</td>
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<td>Removal of pharmaceuticals in biologically treated wastewater by chlorine dioxide or peracetic acid</td>
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Treatment of estrogenic chemicals in biologically treated sewage by chlorine dioxide oxidation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Photochemical treatment of contraceptive hormones
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2008

Photochemical treatment of pharmaceuticals
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2008

Substance flow analysis and source mapping of chemical UV-filters
Publication: Research - peer-review › Journal article – Annual report year: 2008

Substance flow analysis of parabens in Denmark complemented with a survey of presence and frequency in various commodities
Publication: Research - peer-review › Journal article – Annual report year: 2008
Estrogenic personal care products in a grey water reuse system
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Estrogenic personal care products in a greywater reuse system
Publication: Research - peer-review › Journal article – Annual report year: 2007

Flow and use of parabens in the society
Publication: Research › Poster – Annual report year: 2007

Identification of carbamazepine's UV degradation products
Publication: Research › Conference abstract in proceedings – Annual report year: 2007

Irrigation of treated wastewater in Braunschweig, Germany: An option to remove pharmaceuticals and musk fragrances
Publication: Research - peer-review › Journal article – Annual report year: 2007

Photochemical and advanced RedOx treatment of pool water
Publication: Research › Conference abstract in proceedings – Annual report year: 2007

Photolysis and advanced oxidation of estrogenic chemicals
Publication: Research › Conference abstract in proceedings – Annual report year: 2007

Photolysis and advanced oxidation of pharmaceuticals
Publication: Research › Conference abstract in proceedings – Annual report year: 2007

Photolysis and advanced oxidation treatment of estrogenic chemical in tap water and treated sewage
Publication: Research › Article in proceedings – Annual report year: 2007

Photolysis and advanced oxidation treatment of pharmaceuticals in tap water and treated sewage
Publication: Research › Article in proceedings – Annual report year: 2007
Removal of estrogens and pathogens by photo AOPs
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2007

Removal of steroid hormones and personal care products in wastewater by chemical precipitation
Publication: Research › Article in proceedings – Annual report year: 2007

Report on the project: Characterization of biological treatability of the Bad Aibling thermal well water
Publication: Research › Report – Annual report year: 2007

Stability of steroid estrogens in batch experiments with activated sludge in aerobic and denitrifying redox environments
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2007

Substance flow analysis of parabens in Denmark
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Variation in grey wastewater quality reused for toilet flushing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Transport and fate of steroid estrogens in slurry-amended soil
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Assessment of the importance of sorption for steroid estrogens removal during activated sludge treatment
Andersen, H. R., Hansen, M., Kjølholt, J., Stuer-Lauridsen, F., Ternes, T. & Halling-Sørensen, B. 2005 In : Chemosphere. 61, 1, p. 139-146
Publication: Research - peer-review › Journal article – Annual report year: 2005

Removal of estrogens in municipal wastewater treatment under aerobic and anaerobic conditions: Consequences for plant optimization
Publication: Research - peer-review › Journal article – Annual report year: 2004

Fate of estrogens in a municipal sewage treatment plant
Andersen, H. R., Siegrist, H., Halling-Sørensen, B. & Ternes, T. A. 2003 In : Environmental Science & Technology. 37, 18 , p. 4021-4026
Determination of estrogens in sludge and sediments by liquid extraction and GC/MS/MS
A. Ternes, T., Andersen, H. R., Gilberg, D. & Bonerz, M. 2002 In : Analytical Chemistry. 74, 14, p. 3498-3504

Resveratrol, a polyphenolic phytoalexin present in red wine, enhances expression and activity of endothelial nitric oxide synthase

Development of copepod nauplii to copepodites: A parameter for chronic toxicity including endocrine disruption
Andersen, H. R., Wollenberger, L., Halling-Sørensen, B. & Kusk, K. O. 2001 In : Environmental Toxicology and Chemistry. 20, 12, p. 2821-2829

Inhibition of larval development in the marine copepod Acartia tonsa by specifically acting compounds

Environmental risk assessment of antibiotics: Comparison of mecillinam, trimethoprim and ciprofloxacin
Halling-Sørensen, B., Holten Lützhøft, H-C., Andersen, H. R. & Ingerslev, F. 2000 In : Journal of Antimicrobial Chemotherapy. 46, S1, p. 53-58

A parameter for detecting estogenic exposure in the copepod Acartia tonsa
Andersen, H. R., Halling-Sørensen, B. & Kusk, K. O. 1999 In : Ecotoxicology and Environmental Safety. 44, 1, p. 56-61

Does a marine copepod respond specifically on endocrine disruptors?: Abstract No. 2/008

Marine krebsdyrs respons på hormonforstyrrende stoffer - en screeningstest

Test for kemikaliers hormoneffekter med et marint krebsdyr
Wollenberger, L., Kusk, K. O., Andersen, H. R. & Halling-Sørensen, B. 1999 In : Miljøforskning. 40, p. 48-52

Projects:

Karakterisering og kvantificering af producerede nanobobler i vand
Nielsen, K., Andersen, H. R., Kaarsholm, K. M. S. & Droumpali, A.
01/07/2017 → 30/04/2018

Fuldautomatisk decentral rensning af partikler i regnbetingede udledninger
Nielsen, K., Mikkelsen, P. S., Andersen, H. R., Vezzaro, L., Borup, M. & Chhetri, R. K.
01/11/2016 → 31/10/2018
Mixture Effects in Biodegradation Testing of Aromatic and Aliphatic Hydrocarbons
Hammershøj, R. H., Mayer, P., Andersen, H. R. & Birch, H.
15/06/2016 → 13/12/2019
Project: PhD

Ozonation of semi-closed aquatic systems - Online control
01/01/2016 → 31/12/2018
Project: PhD

Micropollutants removal for hospital wastewater
Ooi, G. T. H., Andersen, H. R., Bester, K., Trapp, S., Fick, J. & Kreuzinger, N.
15/05/2015 → 14/05/2018
Project: PhD

Engineering microbial communities in granular autotrophic nitrogen removal systems by steering metabolic networks
Blum, J., Smets, B. F., Jensen, M. M., Thamdrup, B., Andersen, H. R., Vlaeminck, S. E. & Wilén, B.
01/03/2015 → 21/05/2018
Project: PhD

Improving phosphorus recovery by supplementing existing Danish wastewater treatment using electrodialysis.
Ebbers, B., Ottosen, L. M., Jensen, P. E. & Andersen, H. R.
01/01/2015 → 31/10/2015
Project

Micropollutants removal for hospital wastewater
Tang, K., Andersen, H. R., Mayer, P., Mayer, P., McArdell, C. S. & Stasinakis, A.
01/01/2015 → 18/04/2018
Project: PhD

Functional nonostructured materials to real water treatment applications
Ko, D., Andersen, H. R., Hwang, Y., Jakobsen, M. H., Yavuz, Ç. T., Baun, A., Dossi, E. & Holm, P. E.
15/12/2014 → 14/03/2018
Project: PhD

Swimming pool disinfection by-products
Cheema, W. A., Andersen, H. R., Kaarsholm, K. M. S., Albrechtsen, H., Chowdhury, S. & Uhl, W.
15/10/2014 → 30/08/2017
Project: PhD

Chemical disinfection of combined sewer overflow (CSO) water
Chhetri, R. K., Andersen, H. R., Albrechtsen, H., Mikkelsen, P. S., Dalsgaard, A. & Stasinakis, A.
01/10/2014 → 20/12/2017
Project: PhD

Realizing autotrophic nitrogen removal in membrane-aerated biofilms
Ma, Y., Smets, B. F., Plós, B. G., Andersen, H. R., Nerenberg, R. & Lackner, S.
01/10/2014 → 14/03/2018
Project: PhD

Functionality increase in MBBRs due to metabolic expansion vs community expansion
Torresi, E., Smets, B. F., Andersen, H. R., Andersen, H. R., Plós, B. G., Rolle, M., Patureau, D. & Wilén, B.
15/01/2014 → 26/04/2017
Project: PhD
**Rensning af drikkevand**
Christensen, S. C. B., Andersen, H. R., Refstrup, M. & Albrechtsen, H.
15/09/2013 → 30/04/2014
Project

**Reactive nanomaterials for water purification**
15/12/2012 → 22/12/2016
Project: PhD

**Modelling the Fate and Optimizing the Removal of Selected Xenobiotic Organic Micropollutants from Point and Network Water Resources**
01/04/2012 → 27/01/2016
Project: PhD

**Anvendelse af okker i Holbæk forsyning A/S**
Andersen, H. R.
01/02/2012 → 01/02/2013
Project

**Forbedret Rensning Og Desinfektion af Overløbsvand (FRODO)**
Albrechtsen, H., Mikkelsen, P. S. & Andersen, H. R.
30/01/2012 → 30/01/2014
Project

**Fjernelse af trikloramin og andre klorbiprodukter i svømmehallers med fotokemisk UV-behandling (DBP-UV)**
Andersen, H. R.
01/01/2012 → 31/12/2012
Project

**Regn med kvalitet**
01/01/2012 → 01/07/2014
Project

**SvømSundt**
Andersen, H. R.
01/01/2012 → 01/01/2015
Project

**Intelligent Barriers: Management of Microbial Activity in Groundwater Extraction Wells for Pesticide Attenuation**
Papadopoulou, A., Snets, B. F., Albrechtsen, H., Andersen, H. R., Aamand, J. & Springael, D.
01/12/2011 → 12/09/2016
Project: PhD

**Electrodialytic extraction of cadmium from raw, wet oxidized, composted and thermally gasified sludge products**
Ebbers, B., Ottenso, L. M., Andersen, H. R. & Jensen, P. E.
01/11/2011 → 30/06/2017
Project: PhD

**Chemical options for desinfection of combined sewer overflows**
01/07/2011 → 31/12/2012
Project
Nitrification in rapid sand filters—process understanding and removal of organic micropollutants
Tatari, K., Albrechtsen, H., Nielsen, P. B., Smets, B. F., Andersen, H. R., Pettersson, T. & Uhl, W.
01/09/2010 → 02/04/2014
Project: PhD

Innovation network for environmental Technology (Innovationsnetværk på miljøteknologi)
01/07/2010 → 01/07/2014
Project

NEEWTT - Network for Energy Efficient Wastewater Treatment Technologies
Ledin, A., Smets, B. F. & Andersen, H. R.
01/07/2010 → 01/07/2014
Project

Thalis
Angelidaki, I. & Andersen, H. R.
01/07/2010 → 30/06/2014
Project

Concept proof of usability of ocher as a source of iron in wastewater treatment
Mikkelsen, P. S., Angelidaki, I. & Andersen, H. R.
15/03/2010 → 01/02/2011
Project

Future climate change technologies
01/12/2009 → 01/07/2010
Project

Ozonation of swimming pool water
Andersen, H. R.
01/11/2009 → 31/07/2010
Project

Siemens Water Technology AOP
Andersen, H. R.
01/10/2009 → 01/10/2010
Project

Biologisk nedbrydning af kemikalier i renseeanlæg. Afslag
Ledin, A., Press-Kristensen, K. & Andersen, H. R.
01/05/2009 → 31/05/2010
Project

Reuse of treated sewage
Ledin, A. & Andersen, H. R.
01/01/2009 → 31/10/2009
Project

Strategies for chemical healthy public swimming pools
Kaarsholm, K. M. S., Andersen, H. R., Albrechtsen, H., Mosbæk, H., Lützheft, H. H. & Grønborg, O.
01/01/2009 → 27/03/2013
Project: PhD
MILjøefektiv TEKnologi til videregående rønsning af overflødsvand og spildevand
Ledin, A., Qualmann, S., Kruse, S. & Andersen, H. R.
01/12/2008 → 01/12/2009
Project

Karakterisering af membran og UV vandbehandlingsanlægget i Marselisborgcentrets varmtvandsbassin
Arvin, E. & Andersen, H. R.
29/09/2008 → 31/01/2009
Project

Geosmin and 2-methylisoborneol analyse in fishing farm water
Mosbæk, H., Christensen, N. & Andersen, H. R.
20/08/2008 → 30/01/2009
Project

Analyseudvikling - rammekontrakt med DHI
Eriksson, E., Mosbæk, H., Andersen, H. R. & Lützhøft, H. H.
08/08/2008 → 31/12/2010
Project

Recilant COD removal in process water
Henze, M. & Andersen, H. R.
01/07/2008 → 15/09/2008
Project

Co-operion on reuse of biological treated wastewater from Biokubes wastewater treatment units
Henze, M. & Andersen, H. R.
19/06/2008 → 30/06/2009
Project

AVIVA -Avanceret Industriel Vandbehandling
Albrechtsen, H., Albrechtsen, H. & Andersen, H. R.
01/02/2008 → 01/02/2012
Project

Undersøgel sesprojekt om afprøvning af forskellige renseteknologier på svømmebade
Ebert, B., Arvin, E., Mosbæk, H., Nguyen, S. H., Kruse, S., Henriksen, K. B. & Andersen, H. R.
02/01/2008 → 31/12/2008
Project

MistraPharma – Identification and Reduction of Environmental Risks Caused by the Use of Human Pharmaceuticals
Andersen, H. R.
01/01/2008 → 31/12/2011
Project

Biodegradability of sulphor and organic matter in the well water from Bad Aibling Thermal bath
Andersen, H. R., Eilersen, A. M., Schmidt, J. E. & Sørensen, M.
11/12/2006 → 01/02/2007
Project

Pesticidforskningsprojekt: Statistisk analyse og biologisk tolkning af toksicitetsdata.
Nyholm, N., Andersen, H. R., Baun, A. & Kusk, K. O.
01/02/2006 → 31/12/2007
Project
DAN-ED: Endocrine disrupters in food and environment: exposure routes and impact on human health
Andersen, H. R., Baun, A. & Eriksson, E.
01/11/2005 → 31/10/2008
Project

Analyseprogram for fjernelse af hormonforstyrrende kemikalier i biologisk renset spildevand
Andersen, H. R. & Baun, A.
01/07/2005 → 31/05/2006
Project

Nedbrydning af miljøfremmende stoffer i spildevand og spildevandsslam
15/08/2003 → 21/12/2007
Project: PhD

Activities:

The response of fluorescent organic matter to ozone treatment in pilot freshwater RAS
Spiliotopoulou, A. (Speaker), Andersen, H. R. (Other), Pedersen, L. (Other), Stedmon, C. (Other), Hambly, A. (Other)
23 Apr 2018
Activity: Talks and presentations › Conference presentations

Unge Forskere (External organisation)
Andersen, H. R. (Chairman)
19 Mar 2018
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Ozonation of recirculating aquaculture system based on system’s demand
Spiliotopoulou, A. (Speaker), Richard Martin (Other), Pedersen, L. (Other), Andersen, H. R. (Other)
17 Oct 2017 → 20 Oct 2017
Activity: Talks and presentations › Conference presentations

7th International Conference
Kaarsholm, K. M. S. (Participant), Andersen, H. R. (Chairman), Traek Manasfi (Participant), Jean-Luc Boudenne (Participant)
2 May 2017 → 5 May 2017
Activity: Attending an event › Participating in or organising a conference

7th International Conference
Kaarsholm, K. M. S. (Participant), Andersen, H. R. (Chairman)
2 May 2017 → 5 May 2017
Activity: Attending an event › Participating in or organising a conference

Raphael M. G. Flavigny (External organisation)
Andersen, H. R. (Participant)
12 Oct 2015
Activity: Membership › Membership in review committee

Review of proposal for Czech Science Foundation. (External organisation)
Andersen, H. R. (Member)
4 Jul 2015
Activity: Membership › Membership in review committee
Tekboost sparringsdag
Andersen, H. R. (Consultant)
24 Jun 2015
Activity: Public and private sector consultancy › Consultancy

6th International Conference Swimming Pool & Spa
Andersen, H. R. (Participant)
17 Mar 2015 → 20 Mar 2015
Activity: Attending an event › Participating in or organising a conference

Qatar National Research Fund (External organisation)
Andersen, H. R. (Member)
27 Feb 2015
Activity: Membership › Membership in review committee

Rensning af hospitalsspildevand.: Driftsresultater af første års drift med fixed-film teknologi
Andersen, H. R. (Speaker)
19 Nov 2014
Activity: Talks and presentations › Conference presentations

IP06 DesiCSO - Desinfektion af "Combined Sewer Overflow", CSO
Andersen, H. R. (Invited speaker)
11 Nov 2014
Activity: Talks and presentations › Conference presentations

University of the Aegean
Andersen, H. R. (Visiting researcher)
Activity: Visiting an external institution › Visiting another research institution

Design of Chemical Disinfection of Combined Sewer Overflows (CSO) by Peracetic Acid & Performic Acids
Andersen, H. R. (Speaker)
23 Sep 2014
Activity: Talks and presentations › Conference presentations

Kan den miljøteknologiske sektor levere?
Andersen, H. R. (Participant)
29 Apr 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Informationsmøde: Rammerne for MUDP 2014
Andersen, H. R. (Participant)
27 Mar 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

University of the Aegean
Andersen, H. R. (Visiting researcher)
15 Mar 2014 → 22 Mar 2014
Activity: Visiting an external institution › Visiting another research institution

Ozonbehandling til fjernelse af mikroforurensningsstoffer i udløb fra renseanlæg
Andersen, H. R. (Invited speaker)
5 Mar 2014
Activity: Talks and presentations › Conference presentations
Elsevier (Publisher)
Andersen, H. R. (Reviewer)
22 Feb 2014
Activity: Research › Peer review of manuscripts

Effect of pH on DBP formation
Andersen, H. R. (Lecturer)
10 Apr 2013
Activity: Talks and presentations › Conference presentations

Efterpolering af spildevand for mikroforureningsstoffer: IdaMijle møde 4.maj 2010 om "Fremtidens Spildevendsbehandling"
Andersen, H. R. (Speaker)
4 May 2010
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Spildevand/Vand: Hospitalsspildevand rejser helt særlige problemer, som skal håndteres allerede i projekteringens
Andersen, H. R. (Lecturer)
24 Feb 2010
Activity: Talks and presentations › Conference presentations

Rewiev of proposals for Qatar National Research Fund (QNRF) (External organisation)
Andersen, H. R. (Member)
Mar 2009 → …
Activity: Membership › Membership in review committee

Press clippings:

Sourcetreatment of pharmaceuticals in hospital wastewater
Henrik Rasmus Andersen
15/05/2018 → 16/05/2018
3 media contribution
Press / Media

Forurening af flod ved Carlsbergs bryggeri i Nepal
Henrik Rasmus Andersen
08/03/2018 → 08/03/2018
3 media contribution
Press / Media

Bornholm: Flere bassiner har problemer med vandkvalitet
Henrik Rasmus Andersen
24/07/2017
1 media contribution
Press / Media

Fire sandheder om vandet i poolen: Nej, det er hverken kløren der lugter eller svier i øjnene
Henrik Rasmus Andersen
19/07/2017
1 media contribution
Press / Media

Skejby-hospital satser på rationel spildevandsrensning
Henrik Rasmus Andersen
23/03/2013
1 media contribution
Press / Media