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## Employment

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## Research outputs

**Are we overestimate the contribution of microplastics from industrial laundry? Microplastic exploration in an industrial laundry: Quantification and elimination**

Liu, Y., Chand, R., Dencker, J., Hanning, A. C., Gunnerblad, E. & Vollertsen, J., 5 Aug 2025, In: Journal of Hazardous Materials. 493, 11 p., 138425.

**Microplastics and tyre wear particles in urban runoff from different urban surfaces**

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**Microplastics are associated with biomarker of intestinal inflammation in a pilot analysis of the PLANET Study**

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**Fate and Evolution of Eroded Particles in The Marine Environment, Analysis of Leading Edge Protection Particles (Preliminary Results)**

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**Abundance, distribution and characteristics of microplastics in the North and South Atlantic Ocean**

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**Microplastics in an advanced wastewater treatment plant: sustained and robust removal rates unfazed by seasonal variations**

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**Micro- and nano-plastics, intestinal inflammation, and inflammatory bowel disease: A review of the literature**

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**Composition and concentrations of microplastics including tyre wear particles in stormwater retention pond sediments**

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**Vertical distribution of microplastics in an agricultural soil after long-term treatment with sewage sludge and mineral fertiliser**

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**An integrative analysis of microplastics in spider webs and road dust in an urban environment–webbed routes and asphalt Trails**

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**Shapes of Hyperspectral Imaged Microplastics**

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**Step-By-Step Evaluation of Matrix Effect and Sample Recovery During Pretreatment of Wastewater Samples for the Quali-Quantitation of Microplastics by Py-GC-MS**

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**Can a Sediment Core Reveal the Plastic Age? Microplastic Preservation in a Coastal Sedimentary Record**

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**Are permeable pavements a sustainable solution? A qualitative study of the usage of permeable pavement**

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**Sewer Solids Management using Invert Traps**

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**Solids in Combined Sewers - Characterization and Transformation**

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## Activities

**Microplastic pollution in three rivers with varying anthropogenic impact in South Eastern Norway**

Lorenz, C. (Lecturer), Vollertsen, J. (Lecturer), Vianello, A. (Lecturer), Stephansen, D. (Lecturer), Dolven, J. K. (Lecturer), Værøy, N. (Lecturer), Olsen, S. B. (Lecturer) & Gomiero, A. (Lecturer)

23 Nov 2020 → 27 Nov 2020

**Member of the Scientific Programme Committee responsible for the IWA Specialty Conference "Odours and Volatile Emissions" to be held in Barcelona 18-20 September 2006**

Vollertsen, J. (Organizer)

1 Oct 2005 → 1 Jan 2007

**IWA International Conference on Sewer Processes and Networks**

Vollertsen, J. (Speaker)

15 Apr 2002 → 17 Apr 2002

**10th International Conference on Urban Drainage**

Vollertsen, J. (Organizer)

1 Jan 2002 → 1 Jan 2006

## **Press/Media**

### **10 milliarder til renseanlæg**

Vollertsen, J.

08/12/2006

1 item of Media coverage

### **187 kilo plastik satte fokus på stigende problem**

Vollertsen, J.

15/02/2020

2 items of Media coverage

### **Affald kan være det rene guld**

Vollertsen, J.

14/01/2011

1 item of Media coverage

### **Alive Festival med minister-besøg**

Vollertsen, J.

09/08/2019

3 items of Media coverage

### **Anlæg skal standse skidtet fra vejene: Regnvand fra vejene er forurenset med mikroplast og farlige stoffer**

Vollertsen, J.

17/12/2018

1 item of Media coverage

### **Bildæk udleder 600 gange så meget mikroplast som al kosmetik tilsammen**

Vollertsen, J.

13/03/2021

4 items of Media coverage

### **Biocider kan spredes fra puds, facade- og bundmaling**

Vollertsen, J. & Vianello, A.

09/04/2021

1 item of Media coverage

### **Biolog: Jeg kan bringe livet tilbage til Flensborg Fjord**

Vollertsen, J.

21/08/2024 → 27/08/2024

3 items of Media coverage

### **Blæst og fedtklumper øger risikoen for oversvømmelser**

Vollertsen, J.

11/01/2019

1 item of Media coverage

### **Danmark sender millioner af kubikmeter spildevand ud i naturen**

Vollertsen, J.

28/05/2020

2 items of Media coverage

### **Dansk ekspedition mod dybet efter plast-svar: Med sig har de en trailer fuld af gear**

Vollertsen, J.

13/06/2022

1 item of Media coverage

**Dansk familie skræmt over måling i deres lejlighed**

Vollertsen, J.

18/09/2019

1 Media contribution

**Debat: Mikroplastik er overalt og udfordrer vores sundhed**

Vollertsen, J. & Allin, K.

09/05/2023 → 10/05/2023

2 Media contributions

**Den skinbarlige sandhed eller løgn på løgn? Vi har tjekket, om Netflix-dokumentaren Seaspiracy holder vand**

Vollertsen, J.

10/04/2021 → 16/04/2021

3 items of Media coverage

**Dit affald kan havne på bunden af havet: Forsker slår alarm over mikroplast**

Vollertsen, J.

03/10/2024 → 08/10/2024

22 items of Media coverage

**Donation**

Vollertsen, J.

20/12/2018 → 20/12/2018

7 items of Media coverage

**Dårlige septiktankanlæg årsag til stor forsforudledning**

Vollertsen, J.

26/03/2010

1 item of Media coverage

**Eksperter: Supersygehus i Aalborg er ved at begå kæmpefejl**

Vollertsen, J.

15/05/2018

12 items of Media coverage

**Ekspert: Flydespæringer gør næsten ingen gavn**

Vollertsen, J.

08/12/2013

1 item of Media coverage

**Elbilerne forurener også - bare med gummi og støv**

Vollertsen, J.

18/06/2025

1 item of Media coverage

**Elbiler sprøjter farlige partikler ud i naturen: »Kør ordentligt,« lyder det**

Vollertsen, J.

16/12/2024 → 17/12/2024

2 items of Media coverage

**Er plast i havet en storm i et glas vand eller en overset miljøkatastrofe?**

Vollertsen, J.

12/12/2018

1 item of Media coverage

**Et hav af plast: Hvad fire års forskning i plast og mikroplast har lært os**

Vollertsen, J.

25/12/2022

1 Media contribution

**Foderne fylder havene med plastikaffald - ti store floder er de værste synderne**

Vollertsen, J.

14/04/2019

1 item of Media coverage

**Fluorstoffer gør slam fra spildevand for giftigt til at sprede på markerne**

Vollertsen, J.

27/08/2022

2 items of Media coverage

**Flydespærringer betyder intet**

Vollertsen, J.

08/12/2013

1 item of Media coverage

**Forbrug sætter spor på havbunden: Afsætning af mikroplast tredoblet i dette århundrede**

Vollertsen, J., Vianello, A. & Sanchez, L. S.

28/12/2022

1 item of Media coverage

**Forskere på togf for at kortlægge mikroplastik**

Vollertsen, J.

14/11/2020

1 item of Media coverage

**Forskning i lokal rensning: Kan klimavej fange mikroplast og rense regnvand?**

Rasmussen, L. A. & Vollertsen, J.

04/02/2021

1 item of Media coverage

**Forskningscenter åbner: Vil plastik i verdenshave til livs**

Vollertsen, J.

01/02/2019

2 items of Media coverage

**Fra fond til forsker: En uge i klimaets tegn**

Vollertsen, J.

10/12/2018

37 items of Media coverage

**Frederikshavn mener at kunne håndtere prøveboringer**

Vollertsen, J.

16/06/2015

1 item of Media coverage

**Fup og fidus om fiskeriet**

Vollertsen, J.

14/04/2021

1 item of Media coverage

**Gode intentioner og globale udfordringer**

Storm, B. K. &amp; Vollertsen, J.

24/03/2019

2 items of Media coverage

**Her kommer mutter med kost og spand**

Vollertsen, J.

06/04/2020

1 item of Media coverage

**Hjælp til de gode bakterier giver bedre vandrensning i troperne**

Stokholm-Bjerregaard, M., Vollertsen, J. &amp; Nielsen, P. H.

28/06/2016

1 item of Media coverage

**Hvad stiller vi op med regnvandet?**

Vollertsen, J.

20/12/2023

1 item of Media coverage

**Hvordan opnås accept for BAT med alternative renseløsninger til regnvand?**

Vollertsen, J.

08/11/2022

1 item of Media coverage

**Hård kritik fra fiskere**

Vollertsen, J.

24/08/2010

1 item of Media coverage

**Ikke kun i Stillehavet: Masser af plastik i dansk jord**

Vollertsen, J.

06/06/2017

1 item of Media coverage

**I Vejle siver vejvand ned i kantstensbedet**

Vollertsen, J.

26/09/2012

2 items of Media coverage

**Jagten på det forsvundne plastik**

Vollertsen, J.

08/11/2020 → 10/11/2020

3 items of Media coverage

**Klimaet truer miljøgevinst**

Vollertsen, J.

24/08/2010

1 item of Media coverage

**Limfjorden er forurenset af mikroplast**

Vollertsen, J.

19/10/2024

1 item of Media coverage

**Lovende projekt opfanger mikroplast**

Vollertsen, J.

07/04/2021 → 13/04/2021

2 items of Media coverage

**Microplastics deposited on the seafloor triple in 20 years**

Lorenz, C., Vianello, A., Liu, F., Vollertsen, J. & Sanchez, L. S.

22/12/2022 → 06/01/2023

25 items of Media coverage

**Mikroplast fra kosmetik - en dråbe i havet**

Vollertsen, J.

01/09/2017

1 item of Media coverage

**Mikroplast fra motorveje skal opfanges**

Vollertsen, J.

07/05/2021

1 item of Media coverage

**Mikroplast fundet i luften over London**

Vollertsen, J.

02/01/2020

1 item of Media coverage

**MIKROPLAST I BYENS VAND**

Vollertsen, J., Olesen, K. B., Simon, M. & Hansen, A. A.

02/07/2019

1 Media contribution

**Mikroplast i hovedstadens drikkevand**

Vollertsen, J.

19/09/2017

8 items of Media coverage

**Mikroplast måles langt mere præcist**

Vollertsen, J. & Olesen, K. B.

19/09/2019

4 items of Media coverage

**Mikroplast: Teposer afgiver milliarder af partikler**

Vollertsen, J.

27/09/2019

1 Media contribution

**Mild spredning af partikelbårne biocider**

Vollertsen, J. & Vianello, A.

10/05/2021

1 item of Media coverage

**Muslingeskaller renser vand fra motorveje**

Vollertsen, J.

04/02/2010

1 item of Media coverage

**Muslingeskaller skal rense regnvand**

Vollertsen, J.

03/02/2010

1 item of Media coverage

**Mytedræber: Din karklud og din fleecetrøje frikendt for at forurene med mikroplast**

Vollertsen, J.

15/03/2017

6 items of Media coverage

**Mytedræber: Nej, karklude og nyvaskede fleecetrøjer er ikke store miljøsyndere**

Vollertsen, J.

08/08/2020

4 items of Media coverage

**Nanoplastics are entering our bodies**

Vianello, A. & Vollertsen, J.

07/07/2023 → 29/07/2023

17 items of Media coverage

**Nyhed: Samme forhøjede niveauer af mikroplast i kystrnær havbund som 75 års slamtilførsel**

Vollertsen, J.

27/11/2022

1 item of Media coverage

**Ny metode skal fjerne motorvejs-mikroplast**

Vollertsen, J.

29/03/2021 → 30/03/2021

4 items of Media coverage

**Ny rapport om måling af mikroplast**

Vollertsen, J.

11/01/2018

1 item of Media coverage

**Ny teknologi til rensning af regnvand**

Vollertsen, J.

07/12/2006

1 item of Media coverage

**Nyt samarbejde om løsninger på plastforurening i havet**

Vollertsen, J.

22/01/2019

1 item of Media coverage

**Nyt studie: Flydende mikroplast fra Europa ender i Det Arktiske Ocean**

Vollertsen, J.

18/03/2022

1 item of Media coverage

**Ph.d.-forsvar af Gunaalan Kuddithamby: Mikroplastik og dets mulige effekt på plankton i havet**

Vollertsen, J.

04/01/2024

1 item of Media coverage

**Plastik er farligt men potentiel og også fantastisk**

Vollertsen, J.

19/04/2024 → 21/04/2024

7 items of Media coverage

**Plastik er farligt, men potentiel og også fantastisk**

Vollertsen, J.

27/04/2024

9 items of Media coverage

**Plastik kan blive verdens mest miljøvenlige materiale: Her er hvordan**

Vollertsen, J.

14/04/2021

1 item of Media coverage

**Professor går i rette med ny rapport om elbilers luftforurening**

Vollertsen, J.

27/05/2025

1 item of Media coverage

**Recipient of the 2013 WEF Eddy Wastewater Principles/Processes Medal**

Nielsen, A. H. & Vollertsen, J.

13/07/2013

1 item of Media coverage

**Rensning af spildevand får fiskene til at vende tilbage**

Vollertsen, J.

14/10/2014

6 items of Media coverage

**Ritzau Plus: Mikroplastik på strande bekymrer naturfolk**

Vollertsen, J.

22/09/2019

45 items of Media coverage

**Silkeborg Forsyning: Utilfredsstillende tømning i 2019**

Vollertsen, J.

11/06/2020

2 items of Media coverage

**Slam blev pløjet ned efter politianmeldelse**

Vollertsen, J.

20/10/2017

3 items of Media coverage

**Solenergi suger vand ud af ørkenluft**

Vollertsen, J.

11/06/2018

1 item of Media coverage

**Spildevandstræf i Malmø**

Vollertsen, J.

06/12/2013

1 item of Media coverage

**Støtte til AAU-forskere**

Lange, L., Gurevich, L., Fojan, P., Vollertsen, J., Nielsen, T. T., Graven-Nielsen, T., Jensen, K., Nielsen, E. H., Christiansen, E. T., Nielsen, B. N. & Roslev, P.

20/09/2011

4 items of Media coverage

**Svensk projekt vil fjerne problem med mikroplast fra tekstiler**

Vollertsen, J.

29/11/2017

1 item of Media coverage

**Thy øl i ét krus!**

Vollertsen, J.

17/08/2019

2 items of Media coverage

**Udfordringer med analyser for mikroplast**

Vollertsen, J.

08/12/2017

1 item of Media coverage

**Urenset spildevand fra renseanlæg løber ofte ud i å, når det regner: - Myndighederne pisser på os**

Vollertsen, J.

28/11/2024 → 29/11/2024

3 items of Media coverage

**Utilstrækkelig kontrol for biocider**

Vollertsen, J.

06/10/2015

2 items of Media coverage

**Vanddetektiver jager forurening**

Vollertsen, J.

17/12/2011

3 items of Media coverage

**Vandhåndtering: Nicolinelund gör det rigtige**

Vollertsen, J.

10/11/2023

1 item of Media coverage

**Verdens første filter til vand fra motorveje**

Vollertsen, J.

10/09/2018

4 items of Media coverage

**Aalborg Universitet afprøver helt ny metode til at fjerne mikroplast fra vand**

Vollertsen, J.

22/03/2021 → 24/03/2021

28 items of Media coverage

**AAU-projekt om mikroplast i havmiljø**

Vollertsen, J.

11/12/2020

1 item of Media coverage

## **Projects**

### **Biotic and abiotic corrosion of concrete sewers**

Nielsen, P. H. (Project Participant), Nielsen, A. H. (Project Participant), Vollertsen, J. (Project Participant) & Hvitved-Jacobsen, T. (Project Participant)  
01/01/2005 → 30/06/2008

### **Effekten af tilbageholdt spildevand under regn på den efterfølgende rensning / The effect of extended storage on wastewater treatment**

Hvitved-Jacobsen, T. (Project Participant) & Vollertsen, J. (Project Participant)  
01/02/2005 → 01/02/2005

### **Emission af svovlbrinte med relationer til svovlkredsløbet i afløbssystemer / Emission and fate of hydrogen sulfide in sewer networks**

Hvitved-Jacobsen, T. (Project Participant) & Vollertsen, J. (Project Participant)  
01/02/2005 → 01/02/2005

### **Energioptimering og affaldshåndtering- Kildesorteret organisk affald og have-og park affald til biogas**

Borregaard, A. R. (PI) & Vollertsen, J. (CoI)  
01/08/2016 → 31/07/2021

### **Forudsigelse af levetid for afløbsnet / Computer aided rehabilitation of sewer networks**

Hvitved-Jacobsen, T. (Project Participant), Vollertsen, J. (Project Participant) & Madsen, H. I. (Project Participant)  
31/12/2005 → 31/12/2005

### **Kemisk og biologisk oxidation af sulfid i afløbssystemer / Chemical and biological oxidation of sulfide in sewer networks**

Vollertsen, J. (Project Participant) & Hvitved-Jacobsen, T. (Project Participant)  
01/02/2005 → 01/02/2005

### **Kvælstoffjernelse i spildevand med høje ammoniumkoncentrationer / Nitrogen removal for wastewater with high ammonia concentrations**

Vollertsen, J. (Project Participant) & Hvitved-Jacobsen, T. (Project Participant)  
01/02/2005 → 01/02/2005

### **Nedbrydning af organisk stof i den mekaniske del af Aalborg Renseanlæg Vest / Degradation of organic matter in the mechanical part of Aalborg Treatment Plant West**

Hvitved-Jacobsen, T. (Project Participant) & Vollertsen, J. (Project Participant)  
01/02/2005 → 01/02/2005

### **Nitrogen transformations in sewer networks**

Nielsen, A. H. (Project Participant), Vollertsen, J. (Project Participant) & Hvitved-Jacobsen, T. (Project Participant)  
01/02/2005 → 31/12/2008

### **Omsætning af kvælstof og kulstof under anoxiske forhold i afløbssystemer / Nitrogen and carbon transformations under anoxic conditions in sewers**

Hvitved-Jacobsen, T. (Project Participant), Vollertsen, J. (Project Participant) & Yang, W. (Project Participant)  
01/02/2005 → 01/02/2005

### **Process engineering of wet detention ponds**

Hvitved-Jacobsen, T. (Project Participant), Madsen, H. I. (Project Participant) & Vollertsen, J. (Project Participant)  
01/02/2005 → 30/10/2006

### **Renovering af afløbsnet under hensyntagen til funktion, miljøpåvirkning og økonomi / Rehabilitation of sewer networks based on operational, environmental and economic criteria**

Vollertsen, J. (Project Participant) & Hvitved-Jacobsen, T. (Project Participant)  
01/02/2005 → 01/02/2005

**Stofomsætning i afløbssystemer / In-sewer Processes**

Hvitved-Jacobsen, T. (Project Participant), Vollertsen, J. (Project Participant) & Nielsen, A. H. (Project Participant)  
19/05/2010 → 19/05/2013

**Stofomsætning i afløbssystemer under anoxiske forhold / In-sewer anoxic transformations of waste-water**

Vollertsen, J. (Project Participant) & Hvitved-Jacobsen, T. (Project Participant)  
01/02/2005 → 01/02/2005

**Udsivning af spildevand fra afløbssystemer / Exfiltration of wastewater from sewer networks**

Vorkamp, K. (Project Participant), Vollertsen, J. (Project Participant) & Hvitved-Jacobsen, T. (Project Participant)  
31/12/2003 → 31/12/2003

**AAU Circular Plastics**

Lykke, A. (Project Coordinator), Wærehrens, B. V. (PI), Varrone, C. (PI), Vollertsen, J. (PI), Christiansen, J. D. C. (PI),  
Jensen, L. R. (PI), Simonsen, M. E. (PI), Pedersen, T. H. (PI) & Stingl, V. (PI)  
01/11/2023 → ...

**AAU Water**

Lykke, A. (Project Coordinator), Quist-Jensen, C. A. (PI), Vollertsen, J. (PI), Nielsen, P. H. (PI), Larsen, K. G. (PI), Ali, A.  
(PI), Aschmoneit, F. J. (PI), Pomianowski, M. Z. (PI) & Wisniewski, R. (PI)  
01/05/2024 → ...

2019	Lorem ipsum dolor sit amet
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