# Jes Vollertsen

### List of Publications by Citations

Source: https://exaly.com/author-pdf/7534072/jes-vollertsen-publications-by-citations.pdf

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

115
papers

3,273
citations

29
h-index
g-index

117
ext. papers

29
b-index
g-index

5.2
avg, IF

L-index

#	Paper	IF	Citations
115	The activated sludge ecosystem contains a core community of abundant organisms. <i>ISME Journal</i> , <b>2016</b> , 10, 11-20	11.9	306
114	Quantification of microplastic mass and removal rates at wastewater treatment plants applying Focal Plane Array (FPA)-based Fourier Transform Infrared (FT-IR) imaging. <i>Water Research</i> , <b>2018</b> , 142, 1-9	12.5	292
113	Simulating human exposure to indoor airborne microplastics using a Breathing Thermal Manikin. <i>Scientific Reports</i> , <b>2019</b> , 9, 8670	4.9	205
112	A conceptual ecosystem model of microbial communities in enhanced biological phosphorus removal plants. <i>Water Research</i> , <b>2010</b> , 44, 5070-88	12.5	204
111	Microplastics in urban and highway stormwater retention ponds. <i>Science of the Total Environment</i> , <b>2019</b> , 671, 992-1000	10.2	163
110	Sulfide-iron interactions in domestic wastewater from a gravity sewer. Water Research, 2005, 39, 2747-	· <b>55</b> 2.5	120
109	Corrosion of concrete sewersthe kinetics of hydrogen sulfide oxidation. <i>Science of the Total Environment</i> , <b>2008</b> , 394, 162-70	10.2	113
108	Biocides in urban wastewater treatment plant influent at dry and wet weather: concentrations, mass flows and possible sources. <i>Water Research</i> , <b>2014</b> , 60, 64-74	12.5	84
107	Dynamics of biocide emissions from buildings in a suburban stormwater catchment - concentrations, mass loads and emission processes. <i>Water Research</i> , <b>2014</b> , 56, 66-76	12.5	79
106	Towards a better understanding of sewer exfiltration. Water Research, 2008, 42, 2385-94	12.5	70
105	Kinetics and stoichiometry of sulfide oxidation by sewer biofilms. Water Research, 2005, 39, 4119-25	12.5	69
104	Determination of kinetics and stoichiometry of chemical sulfide oxidation in wastewater of sewer networks. <i>Environmental Science &amp; Environmental Scie</i>	10.3	67
103	Sewer Processes		64
102	Influence of pipe material and surfaces on sulfide related odor and corrosion in sewers. <i>Water Research</i> , <b>2008</b> , 42, 4206-14	12.5	63
101	Toward the Systematic Identification of Microplastics in the Environment: Evaluation of a New Independent Software Tool (siMPle) for Spectroscopic Analysis. <i>Applied Spectroscopy</i> , <b>2020</b> , 74, 1127-1	138 <sup>1</sup>	62
100	Drinking plastics? - Quantification and qualification of microplastics in drinking water distribution systems by µFTIR and Py-GCMS. <i>Water Research</i> , <b>2021</b> , 188, 116519	12.5	55
99	Retention of microplastics in sediments of urban and highway stormwater retention ponds. <i>Environmental Pollution</i> , <b>2019</b> , 255, 113335	9.3	53

#### (1999-2006)

98	Kinetics and stoichiometry of aerobic sulfide oxidation in wastewater from sewers-effects of pH and temperature. <i>Water Environment Research</i> , <b>2006</b> , 78, 275-83	2.8	52
97	Effect of Temperature on Air-Water Transfer of Hydrogen Sulfide. <i>Journal of Environmental Engineering, ASCE</i> , <b>2004</b> , 130, 104-109	2	49
96	Comparison of methods for determination of microbial biomass in wastewater. <i>Water Research</i> , <b>2001</b> , 35, 1649-58	12.5	42
95	Microplastics in a Stormwater Pond. Water (Switzerland), 2019, 11, 1466	3	41
94	Influence of Wastewater Constituents on Hydrogen Sulfide Emission in Sewer Networks. <i>Journal of Environmental Engineering, ASCE</i> , <b>2005</b> , 131, 1676-1683	2	35
93	Urban and Highway Stormwater Pollution		35
92	Identification and Quantification of Microplastics in Potable Water and Their Sources within Water Treatment Works in England and Wales. <i>Environmental Science &amp; Environmental Science &amp; Environmenta</i>	34 <sup>10.3</sup>	34
91	Leaching of Terbutryn and Its Photodegradation Products from Artificial Walls under Natural Weather Conditions. <i>Environmental Science &amp; Environmental Science &amp; Environmental</i>	10.3	33
90	Effects of pH and iron concentrations on sulfide precipitation in wastewater collection systems. <i>Water Environment Research</i> , <b>2008</b> , 80, 380-4	2.8	32
89	Removal of >10 µm Microplastic Particles from Treated Wastewater by a Disc Filter. <i>Water</i> (Switzerland), <b>2019</b> , 11, 1935	3	31
88	Degradation of PPCPs in activated sludge from different WWTPs in Denmark. <i>Ecotoxicology</i> , <b>2015</b> , 24, 2073-80	2.9	30
87	Modeling of hydrogen sulfide oxidation in concrete corrosion products from sewer pipes. <i>Water Environment Research</i> , <b>2009</b> , 81, 365-73	2.8	30
86	Growth kinetics of hydrogen sulfide oxidizing bacteria in corroded concrete from sewers. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 189, 685-91	12.8	29
85	Air-water transfer of hydrogen sulfide: an approach for application in sewer networks. <i>Water Environment Research</i> , <b>2004</b> , 76, 81-8	2.8	27
84	Aerobic and anaerobic transformations of sulfide in a sewer systemfield study and model simulations. <i>Water Environment Research</i> , <b>2008</b> , 80, 16-25	2.8	26
83	Improved urban stormwater treatment and pollutant removal pathways in amended wet detention ponds. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , <b>2012</b> , 47, 1466-77	2.3	25
82	Exploratory analysis of hyperspectral FTIR data obtained from environmental microplastics samples. <i>Analytical Methods</i> , <b>2020</b> , 12, 781-791	3.2	24
81	Stoichiometric and kinetic model parameters for microbial transformations of suspended solids in combined sewer systems. <i>Water Research</i> , <b>1999</b> , 33, 3127-3141	12.5	23

80	Assessment of input of organic micropollutants and microplastics into the Baltic Sea by urban waters. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 148, 149-155	6.7	22
79	Biodegradability of organic matter associated with sewer sediments during first flush. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 2989-95	10.2	22
78	Monitoring and modelling the performance of a wet pond for treatment of highway runoff in cold climates. <i>Alliance for Global Sustainability Bookseries</i> , <b>2007</b> , 499-509		22
77	Semi-automated analysis of microplastics in complex wastewater samples. <i>Environmental Pollution</i> , <b>2021</b> , 268, 115841	9.3	21
76	Photodegradation of octylisothiazolinone and semi-field emissions from facade coatings. <i>Scientific Reports</i> , <b>2017</b> , 7, 41501	4.9	20
75	Microplastics Removal from Treated Wastewater by a Biofilter. Water (Switzerland), 2020, 12, 1085	3	20
74	Sorption media for stormwater treatmenta laboratory evaluation of five low-cost media for their ability to remove metals and phosphorus from artificial stormwater. <i>Water Environment Research</i> , <b>2012</b> , 84, 605-16	2.8	19
73	Quantification of plankton-sized microplastics in a productive coastal Arctic marine ecosystem. <i>Environmental Pollution</i> , <b>2020</b> , 266, 115248	9.3	19
72	Distribution of metals in fauna, flora and sediments of wet detention ponds and natural shallow lakes. <i>Ecological Engineering</i> , <b>2014</b> , 66, 43-51	3.9	18
71	Heavy metals, PAHs and toxicity in stormwater wet detention ponds. <i>Water Science and Technology</i> , <b>2011</b> , 64, 503-11	2.2	18
70	Effect of sewer headspace air-flow on hydrogen sulfide removal by corroding concrete surfaces. <i>Water Environment Research</i> , <b>2012</b> , 84, 265-73	2.8	18
69	A nationwide assessment of plastic pollution in the Danish realm using citizen science. <i>Scientific Reports</i> , <b>2020</b> , 10, 17773	4.9	17
68	Invertebrates in stormwater wet detention ponds - Sediment accumulation and bioaccumulation of heavy metals have no effect on biodiversity and community structure. <i>Science of the Total Environment</i> , <b>2016</b> , 566-567, 1579-1587	10.2	15
67	Modeling Sulfides, pH and Hydrogen Sulfide Gas in the Sewers of San Francisco. <i>Water Environment Research</i> , <b>2015</b> , 87, 1980-9	2.8	15
66	Effects of temperature and dissolved oxygen on hydrolysis of sewer solids. <i>Water Research</i> , <b>1999</b> , 33, 3119-3126	12.5	15
65	Gas phase transport in gravity sewersA methodology for determination of horizontal gas transport and ventilation. <i>Water Environment Research</i> , <b>2006</b> , 78, 2203-9	2.8	14
64	Sorption and Degradation Potential of Pharmaceuticals in Sediments from a Stormwater Retention Pond. <i>Water (Switzerland)</i> , <b>2019</b> , 11, 526	3	13
63	Sulfide Precipitation in Wastewater at Short Timescales. Water (Switzerland), 2017, 9, 670	3	13

## (2006-2000)

62	Resuspension and oxygen uptake of sediments in combined sewers. <i>Urban Water</i> , <b>2000</b> , 2, 21-27		13
61	Aerobic microbial transformations of resuspended sediments in combined sewers - a conceptual model. Water Science and Technology, 1998, 37, 69-76	2.2	13
60	A sewer process model as planning and management toolhydrogen sulfide simulation at catchment scale. <i>Water Science and Technology</i> , <b>2011</b> , 64, 348-54	2.2	12
59	Anaerobic transformations of organic matter in collection systems. <i>Water Environment Research</i> , <b>2011</b> , 83, 532-40	2.8	12
58	Effects of Iron on Chemical Sulfide Oxidation in Wastewater from Sewer Networks. <i>Journal of Environmental Engineering, ASCE</i> , <b>2007</b> , 133, 655-658	2	12
57	Photodegradation of three stormwater biocides. <i>Urban Water Journal</i> , <b>2017</b> , 14, 53-60	2.3	11
56	Sewer exfiltration and the colmation layer. Water Science and Technology, 2009, 59, 2273-80	2.2	11
55	A complete mass balance for plastics in a wastewater treatment plant - Macroplastics contributes more than microplastics. <i>Water Research</i> , <b>2021</b> , 201, 117307	12.5	11
54	Bioaccumulation of heavy metals in two wet retention ponds. <i>Urban Water Journal</i> , <b>2016</b> , 13, 697-709	2.3	10
53	Modeling the eutrophication of two mature planted stormwater ponds for runoff control. <i>Ecological Engineering</i> , <b>2013</b> , 61, 601-613	3.9	10
52	Effects of aerobic Inaerobic transient conditions on sulfur and metal cycles in sewer biofilms. <i>Biofilms</i> , <b>2005</b> , 2, 81-91		10
51	Kinetics of sulfide precipitation with ferrous and ferric iron in wastewater. <i>Water Science and Technology</i> , <b>2018</b> , 78, 1071-1081	2.2	9
50	Release of hydrogen sulfide in a sewer system under intermittent flow conditions: the Eiceira case study, in Portugal. <i>Water Science and Technology</i> , <b>2017</b> , 75, 1702-1711	2.2	8
49	Survival of hydrogen sulfide oxidizing bacteria on corroded concrete surfaces of sewer systems. Water Science and Technology, <b>2008</b> , 57, 1721-6	2.2	8
48	Modeling the formation and fate of odorous substances in collection systems. <i>Water Environment Research</i> , <b>2008</b> , 80, 118-26	2.8	8
47	Aerobic microbial transformations of pipe and silt trap sediments from combined sewers. <i>Water Science and Technology</i> , <b>1998</b> , 38, 249-256	2.2	8
46	Performance and Modelling of a Highway Wet Detention Pond Designed for Cold Climate. <i>Water Quality Research Journal of Canada</i> , <b>2009</b> , 44, 253-262	1.7	8
45	Aerobic and Anaerobic Transformations of Sulfide in a Sewer System Field Study and Model Simulations. <i>Proceedings of the Water Environment Federation</i> , <b>2006</b> , 2006, 3654-3670		7

44	Accelerated weathering affects the chemical and physical properties of marine antifouling paint microplastics and their identification by ATR-FTIR spectroscopy. <i>Chemosphere</i> , <b>2021</b> , 274, 129749	8.4	7
43	Experimental Evaluation of the Stoichiometry of Sulfide-Related Concrete Sewer Corrosion. <i>Journal of Environmental Engineering, ASCE</i> , <b>2014</b> , 140, 04013009	2	6
42	Release of hydrogen sulfide under intermittent flow conditions - the potential of simulation models. <i>Water Science and Technology</i> , <b>2018</b> , 77, 777-787	2.2	6
41	Accelerated Weathering Increases the Release of Toxic Leachates from Microplastic Particles as Demonstrated through Altered Toxicity to the Green Algae. <i>Toxics</i> , <b>2021</b> , 9,	4.7	6
40	Monitoring the startup of a wet detention pond equipped with sand filters and sorption filters. Water Science and Technology, <b>2009</b> , 60, 1071-9	2.2	5
39	Hydrogen sulphide removal from corroding concrete: comparison between surface removal rates and biomass activity. <i>Environmental Technology (United Kingdom)</i> , <b>2009</b> , 30, 1291-6	2.6	5
38	Aerobic microbial transformations of pipe and silt trap sediments from combined sewers. <i>Water Science and Technology</i> , <b>1999</b> , 39, 233-249	2.2	5
37	Microplastic pollution in drinking water. Current Opinion in Toxicology, 2021, 28, 70-70	4.4	5
36	The occurrence and fate of microplastics in a mesophilic anaerobic digester receiving sewage sludge, grease, and fatty slurries. <i>Science of the Total Environment</i> , <b>2021</b> , 798, 149287	10.2	5
35	Kinetics of aerobic oxidation of volatile sulfur compounds in wastewater and biofilm from sewers. <i>Water Science and Technology</i> , <b>2013</b> , 68, 2330-6	2.2	4
34	Stochastic Modeling of Chemical Oxygen Demand Transformations in Gravity Sewers. <i>Water Environment Research</i> , <b>2005</b> , 77, 331-339	2.8	4
33	Stochastic modeling of chemical oxygen demand transformations in gravity sewers. <i>Water Environment Research</i> , <b>2005</b> , 77, 331-9	2.8	4
32	Liquid-gas mass transfer at drop structures. Water Science and Technology, 2017, 75, 2257-2267	2.2	3
31	Airflow in Gravity Sewers - Determination of Wastewater Drag Coefficient. <i>Water Environment Research</i> , <b>2016</b> , 88, 239-56	2.8	3
30	Spatial Variability of Anaerobic Processes and Wastewater pH in Force Mains. <i>Water Environment Research</i> , <b>2016</b> , 88, 747-55	2.8	3
29	Variations in microbiome composition of sewer biofilms due to ferrous and ferric iron dosing. <i>Cogent Environmental Science</i> , <b>2019</b> , 5, 1595293	1.6	2
28	An exploratory study of benthic diatom communities in stormwater ponds of different land uses and varying biocide contamination. <i>Aquatic Ecology</i> , <b>2020</b> , 54, 761-774	1.9	2
27	Liquid-Gas Mass Transfer of Volatile Substances in an Energy Dissipating Structure. <i>Water Environment Research</i> , <b>2018</b> , 90, 269-277	2.8	2

## (2006-2012)

26	Modeling anaerobic organic matter transformations in the wastewater phase of sewer networks. <i>Water Science and Technology</i> , <b>2012</b> , 66, 1728-34	2.2	2
25	New Findings in Hydrogen Sulfide Related Corrosion of Concrete Sewers 2009,		2
24	Air-water mass transfer and tracer gases in stormwater systems. <i>Water Science and Technology</i> , <b>2007</b> , 56, 267-75	2.2	2
23	Sewer quality modeling 🗈 dry weather approach. <i>Urban Water</i> , <b>2000</b> , 2, 295-303		2
22	Model Parameters for Aerobic Biological Sulfide Oxidation in Sewer Wastewater. <i>Water</i> (Switzerland), <b>2021</b> , 13, 981	3	2
21	Automated monitoring system for events detection in sewer network by distribution temperature sensing data measurement. <i>Water Science and Technology</i> , <b>2018</b> , 78, 1499-1508	2.2	2
20	Variations in activities of sewer biofilms due to ferrous and ferric iron dosing. <i>Water Science and Technology</i> , <b>2018</b> , 2017, 845-858	2.2	2
19	Planktonic algae abundance and diversity are similar in urban stormwater ponds of different geographic locations and natural shallow lakes. <i>Urban Ecosystems</i> , <b>2020</b> , 23, 841-850	2.8	1
18	Modeling Odors and Hydrogen Sulfide in the Sewers of San Francisco. <i>Proceedings of the Water Environment Federation</i> , <b>2014</b> , 2014, 1-11		1
17	Air Flow in Gravity Sewers Determination of Wastewater Drag Coefficient. <i>Proceedings of the Water Environment Federation</i> , <b>2014</b> , 2014, 1-29		1
16	A method for on-line measurement of wastewater organic substrate oxidation level during aerobic heterotrophic respiration. <i>Water Science and Technology</i> , <b>2013</b> , 67, 1809-15	2.2	1
15	Bioaccumulation of heavy metals in fauna from wet detention ponds for stormwater runoff. <i>Alliance for Global Sustainability Bookseries</i> , <b>2012</b> , 329-338		1
14	Anaerobic Transformations of Wastewater Organic Matter in Sewer Systems. <i>Proceedings of the Water Environment Federation</i> , <b>2009</b> , 2009, 501-513		1
13	Microplastics degradation through hydrothermal liquefaction of wastewater treatment sludge. Journal of Cleaner Production, <b>2022</b> , 335, 130383	10.3	1
12	Seasonal Trends in Bioaccumulation of Heavy Metals in Fauna of Stormwater Ponds <b>2013</b> , 485-494		1
11	Retainment of the antimicrobial agent triclosan in a septic tank. <i>Water Science and Technology</i> , <b>2014</b> , 70, 586-92	2.2	Ο
10	Modeling nutrient and pollutant removal in three wet detention ponds. <i>Alliance for Global Sustainability Bookseries</i> , <b>2012</b> , 237-248		0
9	Modeling the Formation and Fate of Odorous Substances in Collection Systems. <i>Proceedings of the Water Environment Federation</i> , <b>2006</b> , 2006, 1097-1112		

8	Discussion of Modeling Hydrogen Sulfide Emission Rates in Gravity Sewage Collection Systems by Ori Lahav, Yue Lu, Uri Shavit, and Richard E. Loewenthal. <i>Journal of Environmental Engineering, ASCE</i> , <b>2005</b> , 131, 1761-1762	2
7	Effects of Diurnal pH Variation in Sewer Process Modeling. <i>Proceedings of the Water Environment Federation</i> , <b>2018</b> , 2018, 288-297	
6	WATS Sewer Process Model as a tool for Construction Projects Alternative Selection. <i>Proceedings of the Water Environment Federation</i> , <b>2018</b> , 2018, 591-605	
5	Using WATS Sewer Process Model for Project Pre-Design. <i>Proceedings of the Water Environment Federation</i> , <b>2018</b> , 2018, 107-122	
4	A Conceptual Sewer Process Model as a Tool for Odor and Corrosion Management. <i>Proceedings of the Water Environment Federation</i> , <b>2016</b> , 2016, 596-609	
3	Spatial and Temporal Heterogeneity of Surface pH in Corroding Concrete Sewers. <i>Proceedings of the Water Environment Federation</i> , <b>2017</b> , 2017, 5482-5491	
2	No Clear Response in the Stormwater Phytoplankton Community to Biocide Contamination. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 3120	3
1	Apparent diffusion coefficients in sewer force main biofilms treated with iron salts. <i>Environmental</i>	4.2