

Jes Vollertsen

List of Publications by Year in Descending Order

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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

54
g-index

117
ext. papers

4,171
ext. citations

5.2
avg, IF

5.97
L-index

#	Paper	IF	Citations
115	Microplastics degradation through hydrothermal liquefaction of wastewater treatment sludge. <i>Journal of Cleaner Production</i> , 2022 , 335, 130383	10.3	1
114	Microplastic pollution in drinking water. <i>Current Opinion in Toxicology</i> , 2021 , 28, 70-70	4.4	5
113	Model Parameters for Aerobic Biological Sulfide Oxidation in Sewer Wastewater. <i>Water (Switzerland)</i> , 2021 , 13, 981	3	2
112	Drinking plastics? - Quantification and qualification of microplastics in drinking water distribution systems by μ FTIR and Py-GCMS. <i>Water Research</i> , 2021 , 188, 116519	12.5	55
111	Semi-automated analysis of microplastics in complex wastewater samples. <i>Environmental Pollution</i> , 2021 , 268, 115841	9.3	21
110	Accelerated weathering affects the chemical and physical properties of marine antifouling paint microplastics and their identification by ATR-FTIR spectroscopy. <i>Chemosphere</i> , 2021 , 274, 129749	8.4	7
109	A complete mass balance for plastics in a wastewater treatment plant - Macroplastics contributes more than microplastics. <i>Water Research</i> , 2021 , 201, 117307	12.5	11
108	Accelerated Weathering Increases the Release of Toxic Leachates from Microplastic Particles as Demonstrated through Altered Toxicity to the Green Algae. <i>Toxics</i> , 2021 , 9,	4.7	6
107	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> , 2021 , 798, 149287	10.2	5
106	An exploratory study of benthic diatom communities in stormwater ponds of different land uses and varying biocide contamination. <i>Aquatic Ecology</i> , 2020 , 54, 761-774	1.9	2
105	Planktonic algae abundance and diversity are similar in urban stormwater ponds of different geographic locations and natural shallow lakes. <i>Urban Ecosystems</i> , 2020 , 23, 841-850	2.8	1
104	Toward the Systematic Identification of Microplastics in the Environment: Evaluation of a New Independent Software Tool (siMPle) for Spectroscopic Analysis. <i>Applied Spectroscopy</i> , 2020 , 74, 1127-1138	3.1	62
103	Exploratory analysis of hyperspectral FTIR data obtained from environmental microplastics samples. <i>Analytical Methods</i> , 2020 , 12, 781-791	3.2	24
102	Microplastics Removal from Treated Wastewater by a Biofilter. <i>Water (Switzerland)</i> , 2020 , 12, 1085	3	20
101	Quantification of plankton-sized microplastics in a productive coastal Arctic marine ecosystem. <i>Environmental Pollution</i> , 2020 , 266, 115248	9.3	19
100	No Clear Response in the Stormwater Phytoplankton Community to Biocide Contamination. <i>Water (Switzerland)</i> , 2020 , 12, 3120	3	
99	A nationwide assessment of plastic pollution in the Danish realm using citizen science. <i>Scientific Reports</i> , 2020 , 10, 17773	4.9	17

98	Identification and Quantification of Microplastics in Potable Water and Their Sources within Water Treatment Works in England and Wales. <i>Environmental Science & Technology</i> , 2020 , 54, 12326-12334	10.3	34
97	Assessment of input of organic micropollutants and microplastics into the Baltic Sea by urban waters. <i>Marine Pollution Bulletin</i> , 2019 , 148, 149-155	6.7	22
96	Simulating human exposure to indoor airborne microplastics using a Breathing Thermal Manikin. <i>Scientific Reports</i> , 2019 , 9, 8670	4.9	205
95	Variations in microbiome composition of sewer biofilms due to ferrous and ferric iron dosing. <i>Cogent Environmental Science</i> , 2019 , 5, 1595293	1.6	2
94	Sorption and Degradation Potential of Pharmaceuticals in Sediments from a Stormwater Retention Pond. <i>Water (Switzerland)</i> , 2019 , 11, 526	3	13
93	Microplastics in urban and highway stormwater retention ponds. <i>Science of the Total Environment</i> , 2019 , 671, 992-1000	10.2	163
92	Microplastics in a Stormwater Pond. <i>Water (Switzerland)</i> , 2019 , 11, 1466	3	41
91	Retention of microplastics in sediments of urban and highway stormwater retention ponds. <i>Environmental Pollution</i> , 2019 , 255, 113335	9.3	53
90	Removal of >10 µm Microplastic Particles from Treated Wastewater by a Disc Filter. <i>Water (Switzerland)</i> , 2019 , 11, 1935	3	31
89	Liquid-Gas Mass Transfer of Volatile Substances in an Energy Dissipating Structure. <i>Water Environment Research</i> , 2018 , 90, 269-277	2.8	2
88	Effects of Diurnal pH Variation in Sewer Process Modeling. <i>Proceedings of the Water Environment Federation</i> , 2018 , 2018, 288-297		
87	WATS Sewer Process Model as a tool for Construction Projects Alternative Selection. <i>Proceedings of the Water Environment Federation</i> , 2018 , 2018, 591-605		
86	Using WATS Sewer Process Model for Project Pre-Design. <i>Proceedings of the Water Environment Federation</i> , 2018 , 2018, 107-122		
85	Release of hydrogen sulfide under intermittent flow conditions - the potential of simulation models. <i>Water Science and Technology</i> , 2018 , 77, 777-787	2.2	6
84	Automated monitoring system for events detection in sewer network by distribution temperature sensing data measurement. <i>Water Science and Technology</i> , 2018 , 78, 1499-1508	2.2	2
83	Kinetics of sulfide precipitation with ferrous and ferric iron in wastewater. <i>Water Science and Technology</i> , 2018 , 78, 1071-1081	2.2	9
82	Apparent diffusion coefficients in sewer force main biofilms treated with iron salts. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 1501-1510	4.2	
81	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> , 2018 , 142, 1-9	12.5	292

80	Variations in activities of sewer biofilms due to ferrous and ferric iron dosing. <i>Water Science and Technology</i> , 2018 , 2017, 845-858	2.2	2
79	Photodegradation of three stormwater biocides. <i>Urban Water Journal</i> , 2017 , 14, 53-60	2.3	11
78	Release of hydrogen sulfide in a sewer system under intermittent flow conditions: the Eiceira case study, in Portugal. <i>Water Science and Technology</i> , 2017 , 75, 1702-1711	2.2	8
77	Liquid-gas mass transfer at drop structures. <i>Water Science and Technology</i> , 2017 , 75, 2257-2267	2.2	3
76	Photodegradation of octylisothiazolinone and semi-field emissions from facade coatings. <i>Scientific Reports</i> , 2017 , 7, 41501	4.9	20
75	Sulfide Precipitation in Wastewater at Short Timescales. <i>Water (Switzerland)</i> , 2017 , 9, 670	3	13
74	Spatial and Temporal Heterogeneity of Surface pH in Corroding Concrete Sewers. <i>Proceedings of the Water Environment Federation</i> , 2017 , 2017, 5482-5491		
73	The activated sludge ecosystem contains a core community of abundant organisms. <i>ISME Journal</i> , 2016 , 10, 11-20	11.9	306
72	Bioaccumulation of heavy metals in two wet retention ponds. <i>Urban Water Journal</i> , 2016 , 13, 697-709	2.3	10
71	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> , 2016 , 566-567, 1579-1587	10.2	15
70	Airflow in Gravity Sewers - Determination of Wastewater Drag Coefficient. <i>Water Environment Research</i> , 2016 , 88, 239-56	2.8	3
69	A Conceptual Sewer Process Model as a Tool for Odor and Corrosion Management. <i>Proceedings of the Water Environment Federation</i> , 2016 , 2016, 596-609		
68	Spatial Variability of Anaerobic Processes and Wastewater pH in Force Mains. <i>Water Environment Research</i> , 2016 , 88, 747-55	2.8	3
67	Leaching of Terbutryn and Its Photodegradation Products from Artificial Walls under Natural Weather Conditions. <i>Environmental Science & Technology</i> , 2016 , 50, 4289-95	10.3	33
66	Degradation of PPCPs in activated sludge from different WWTPs in Denmark. <i>Ecotoxicology</i> , 2015 , 24, 2073-80	2.9	30
65	Modeling Sulfides, pH and Hydrogen Sulfide Gas in the Sewers of San Francisco. <i>Water Environment Research</i> , 2015 , 87, 1980-9	2.8	15
64	Biocides in urban wastewater treatment plant influent at dry and wet weather: concentrations, mass flows and possible sources. <i>Water Research</i> , 2014 , 60, 64-74	12.5	84
63	Experimental Evaluation of the Stoichiometry of Sulfide-Related Concrete Sewer Corrosion. <i>Journal of Environmental Engineering, ASCE</i> , 2014 , 140, 04013009	2	6

62	Distribution of metals in fauna, flora and sediments of wet detention ponds and natural shallow lakes. <i>Ecological Engineering</i> , 2014 , 66, 43-51	3.9	18
61	Modeling Odors and Hydrogen Sulfide in the Sewers of San Francisco. <i>Proceedings of the Water Environment Federation</i> , 2014 , 2014, 1-11		1
60	Retainment of the antimicrobial agent triclosan in a septic tank. <i>Water Science and Technology</i> , 2014 , 70, 586-92	2.2	0
59	Air Flow in Gravity Sewers [Determination of Wastewater Drag Coefficient. <i>Proceedings of the Water Environment Federation</i> , 2014 , 2014, 1-29		1
58	Dynamics of biocide emissions from buildings in a suburban stormwater catchment - concentrations, mass loads and emission processes. <i>Water Research</i> , 2014 , 56, 66-76	12.5	79
57	Modeling the eutrophication of two mature planted stormwater ponds for runoff control. <i>Ecological Engineering</i> , 2013 , 61, 601-613	3.9	10
56	Kinetics of aerobic oxidation of volatile sulfur compounds in wastewater and biofilm from sewers. <i>Water Science and Technology</i> , 2013 , 68, 2330-6	2.2	4
55	A method for on-line measurement of wastewater organic substrate oxidation level during aerobic heterotrophic respiration. <i>Water Science and Technology</i> , 2013 , 67, 1809-15	2.2	1
54	Seasonal Trends in Bioaccumulation of Heavy Metals in Fauna of Stormwater Ponds 2013 , 485-494		1
53	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> , 2012 , 47, 1466-77	2.3	25
52	Effect of sewer headspace air-flow on hydrogen sulfide removal by corroding concrete surfaces. <i>Water Environment Research</i> , 2012 , 84, 265-73	2.8	18
51	Sorption media for stormwater treatment--a laboratory evaluation of five low-cost media for their ability to remove metals and phosphorus from artificial stormwater. <i>Water Environment Research</i> , 2012 , 84, 605-16	2.8	19
50	Modeling anaerobic organic matter transformations in the wastewater phase of sewer networks. <i>Water Science and Technology</i> , 2012 , 66, 1728-34	2.2	2
49	Bioaccumulation of heavy metals in fauna from wet detention ponds for stormwater runoff. <i>Alliance for Global Sustainability Bookseries</i> , 2012 , 329-338		1
48	Modeling nutrient and pollutant removal in three wet detention ponds. <i>Alliance for Global Sustainability Bookseries</i> , 2012 , 237-248		0
47	Growth kinetics of hydrogen sulfide oxidizing bacteria in corroded concrete from sewers. <i>Journal of Hazardous Materials</i> , 2011 , 189, 685-91	12.8	29
46	Heavy metals, PAHs and toxicity in stormwater wet detention ponds. <i>Water Science and Technology</i> , 2011 , 64, 503-11	2.2	18
45	A sewer process model as planning and management tool--hydrogen sulfide simulation at catchment scale. <i>Water Science and Technology</i> , 2011 , 64, 348-54	2.2	12

44	Anaerobic transformations of organic matter in collection systems. <i>Water Environment Research</i> , 2011 , 83, 532-40	2.8	12
43	A conceptual ecosystem model of microbial communities in enhanced biological phosphorus removal plants. <i>Water Research</i> , 2010 , 44, 5070-88	12.5	204
42	Sewer exfiltration and the colmation layer. <i>Water Science and Technology</i> , 2009 , 59, 2273-80	2.2	11
41	Monitoring the startup of a wet detention pond equipped with sand filters and sorption filters. <i>Water Science and Technology</i> , 2009 , 60, 1071-9	2.2	5
40	Biodegradability of organic matter associated with sewer sediments during first flush. <i>Science of the Total Environment</i> , 2009 , 407, 2989-95	10.2	22
39	Hydrogen sulphide removal from corroding concrete: comparison between surface removal rates and biomass activity. <i>Environmental Technology (United Kingdom)</i> , 2009 , 30, 1291-6	2.6	5
38	Modeling of hydrogen sulfide oxidation in concrete corrosion products from sewer pipes. <i>Water Environment Research</i> , 2009 , 81, 365-73	2.8	30
37	New Findings in Hydrogen Sulfide Related Corrosion of Concrete Sewers 2009 ,		2
36	Anaerobic Transformations of Wastewater Organic Matter in Sewer Systems. <i>Proceedings of the Water Environment Federation</i> , 2009 , 2009, 501-513		1
35	Performance and Modelling of a Highway Wet Detention Pond Designed for Cold Climate. <i>Water Quality Research Journal of Canada</i> , 2009 , 44, 253-262	1.7	8
34	Corrosion of concrete sewers--the kinetics of hydrogen sulfide oxidation. <i>Science of the Total Environment</i> , 2008 , 394, 162-70	10.2	113
33	Towards a better understanding of sewer exfiltration. <i>Water Research</i> , 2008 , 42, 2385-94	12.5	70
32	Influence of pipe material and surfaces on sulfide related odor and corrosion in sewers. <i>Water Research</i> , 2008 , 42, 4206-14	12.5	63
31	Survival of hydrogen sulfide oxidizing bacteria on corroded concrete surfaces of sewer systems. <i>Water Science and Technology</i> , 2008 , 57, 1721-6	2.2	8
30	Aerobic and anaerobic transformations of sulfide in a sewer system--field study and model simulations. <i>Water Environment Research</i> , 2008 , 80, 16-25	2.8	26
29	Modeling the formation and fate of odorous substances in collection systems. <i>Water Environment Research</i> , 2008 , 80, 118-26	2.8	8
28	Effects of pH and iron concentrations on sulfide precipitation in wastewater collection systems. <i>Water Environment Research</i> , 2008 , 80, 380-4	2.8	32
27	Effects of Iron on Chemical Sulfide Oxidation in Wastewater from Sewer Networks. <i>Journal of Environmental Engineering, ASCE</i> , 2007 , 133, 655-658	2	12

26	Air-water mass transfer and tracer gases in stormwater systems. <i>Water Science and Technology</i> , 2007 , 56, 267-75	2.2	2
25	Monitoring and modelling the performance of a wet pond for treatment of highway runoff in cold climates. <i>Alliance for Global Sustainability Bookseries</i> , 2007 , 499-509		22
24	Aerobic and Anaerobic Transformations of Sulfide in a Sewer System [Field Study and Model Simulations. <i>Proceedings of the Water Environment Federation</i> , 2006 , 2006, 3654-3670		7
23	Modeling the Formation and Fate of Odorous Substances in Collection Systems. <i>Proceedings of the Water Environment Federation</i> , 2006 , 2006, 1097-1112		
22	Kinetics and stoichiometry of aerobic sulfide oxidation in wastewater from sewers-effects of pH and temperature. <i>Water Environment Research</i> , 2006 , 78, 275-83	2.8	52
21	Gas phase transport in gravity sewers--A methodology for determination of horizontal gas transport and ventilation. <i>Water Environment Research</i> , 2006 , 78, 2203-9	2.8	14
20	Sulfide-iron interactions in domestic wastewater from a gravity sewer. <i>Water Research</i> , 2005 , 39, 2747-55	2.5	120
19	Kinetics and stoichiometry of sulfide oxidation by sewer biofilms. <i>Water Research</i> , 2005 , 39, 4119-25	12.5	69
18	Influence of Wastewater Constituents on Hydrogen Sulfide Emission in Sewer Networks. <i>Journal of Environmental Engineering, ASCE</i> , 2005 , 131, 1676-1683	2	35
17	Stochastic Modeling of Chemical Oxygen Demand Transformations in Gravity Sewers. <i>Water Environment Research</i> , 2005 , 77, 331-339	2.8	4
16	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> , 2005 , 131, 1761-1762	2	
15	Effects of aerobic/anaerobic transient conditions on sulfur and metal cycles in sewer biofilms. <i>Biofilms</i> , 2005 , 2, 81-91		10
14	Stochastic modeling of chemical oxygen demand transformations in gravity sewers. <i>Water Environment Research</i> , 2005 , 77, 331-9	2.8	4
13	Effect of Temperature on Air-Water Transfer of Hydrogen Sulfide. <i>Journal of Environmental Engineering, ASCE</i> , 2004 , 130, 104-109	2	49
12	Air-water transfer of hydrogen sulfide: an approach for application in sewer networks. <i>Water Environment Research</i> , 2004 , 76, 81-8	2.8	27
11	Determination of kinetics and stoichiometry of chemical sulfide oxidation in wastewater of sewer networks. <i>Environmental Science & Technology</i> , 2003 , 37, 3853-8	10.3	67
10	Comparison of methods for determination of microbial biomass in wastewater. <i>Water Research</i> , 2001 , 35, 1649-58	12.5	42
9	Resuspension and oxygen uptake of sediments in combined sewers. <i>Urban Water</i> , 2000 , 2, 21-27		13

8	Sewer quality modeling in dry weather approach. <i>Urban Water</i> , 2000 , 2, 295-303		2
7	Effects of temperature and dissolved oxygen on hydrolysis of sewer solids. <i>Water Research</i> , 1999 , 33, 3119-3126	12.5	15
6	Stoichiometric and kinetic model parameters for microbial transformations of suspended solids in combined sewer systems. <i>Water Research</i> , 1999 , 33, 3127-3141	12.5	23
5	Aerobic microbial transformations of pipe and silt trap sediments from combined sewers. <i>Water Science and Technology</i> , 1999 , 39, 233-249	2.2	5
4	Aerobic microbial transformations of pipe and silt trap sediments from combined sewers. <i>Water Science and Technology</i> , 1998 , 38, 249-256	2.2	8
3	Aerobic microbial transformations of resuspended sediments in combined sewers - a conceptual model. <i>Water Science and Technology</i> , 1998 , 37, 69-76	2.2	13
2	Urban and Highway Stormwater Pollution		35
1	Sewer Processes		64