Ilje Pikaar

List of Publications by Year
in descending order

53 papers	2,559 citations	236612 25 h-index	233125 45 g-index
53 all docs	53 docs citations	53 times ranked	2635 citing authors

#	Article	IF	Citations
1	Nutrient recovery from water and wastewater. , 2022, , 245-293.		0
2	Upscaled and validated technologies for the production of bio-based materials from wastewater. , 2022, , 197-222.		0
3	Producing microbial-based protein from reactive nitrogen recovered from wastewater. , 2022, , 223-244.		0
4	Resource recovery from drinking water production facilities: what and how much is there?. , 2022, , 49-60.		0
5	Closing the loop within the water sector: circular resources. , 2022, , 319-337.		0
6	Resource recovery from municipal wastewater: what and how much is there?. , 2022, , 1-19.		0
7	Assessing the potential for upâ€cycling recovered resources from anaerobic digestion through microbial protein production. Microbial Biotechnology, 2021, 14, 897-910.	2.0	20
8	The impact of primary sedimentation on the use of iron-rich drinking water sludge on the urban wastewater system. Journal of Hazardous Materials, 2021, 402, 124051.	6.5	16
9	Articulating the effect of food systems innovation on the Sustainable Development Goals. Lancet Planetary Health, The, 2021, 5, e50-e62.	5.1	135
10	Magnetic poly(acrylic acid)-based hydrogels for rapid ammonium sorption and efficient sorbent separation from sewage. Environmental Science and Ecotechnology, 2021, 6, 100097.	6.7	10
11	The hydrogen gas bio-based economy and the production of renewable building block chemicals, food and energy. New Biotechnology, 2020, 55, 12-18.	2.4	46
12	Effects of in-sewer dosing of iron-rich drinking water sludge on wastewater collection and treatment systems. Water Research, 2020, 171, 115396.	5.3	40
13	Production of single-cell proteins from organic matter and residual nitrogen. , 2020, , 355-389.		3
14	Influence of inoculum selection on the utilisation of volatile fatty acid and glucose in sulfate reducing reactors. Environmental Technology (United Kingdom), 2020, , 1-12.	1.2	1
15	Effects of aging of ferric-based drinking water sludge on its reactivity for sulfide and phosphate removal. Water Research, 2020, 184, 116179.	5.3	15
16	Purple phototrophic bacteria for resource recovery: Challenges and opportunities. Biotechnology Advances, 2020, 43, 107567.	6.0	103
17	Innovation can accelerate the transition towards a sustainable food system. Nature Food, 2020, 1, 266-272.	6.2	285
18	Modified Poly(acrylic acid)-Based Hydrogels for Enhanced Mainstream Removal of Ammonium from Domestic Wastewater. Environmental Science & Technology, 2020, 54, 9573-9583.	4.6	24

#	Article	IF	Citations
19	Upcycling of biowaste carbon and nutrients in line with consumer confidence: the â€œfull gasâ€•route to single cell protein. Green Chemistry, 2020, 22, 4912-4929.	4.6	53
20	Recovery of in-sewer dosed iron from digested sludge at downstream treatment plants and its reuse potential. Water Research, 2020, 174, 115627.	5.3	35
21	Resource recovery from water: From concept to standard practice. Water Research, 2020, 178, 115856.	5.3	8
22	Opportunities for reducing coagulants usage in urban water management: The Oxley Creek Sewage Collection and Treatment System as an example. Water Research, 2019, 165, 114996.	5.3	17
23	Mainstream Ammonium Recovery to Advance Sustainable Urban Wastewater Management. Environmental Science & Technology, 2019, 53, 11066-11079.	4.6	126
24	Full-scale investigation of in-situ iron and alkalinity generation for efficient sulfide control. Water Research, 2019, 167, 115032.	5.3	19
25	Measuring development of environmental awareness and moral reasoning: A case-study of a civil engineering course. European Journal of Engineering Education, 2019, 44, 954-968.	1.5	5
26	Anode materials for sulfide oxidation in alkaline wastewater: An activity and stability performance comparison. Water Research, 2019, 149, 111-119.	5.3	27
27	The Urgent Need to Re-engineer Nitrogen-Efficient Food Production for the Planet. , 2018, , 35-69.		14
28	Rapid removal of ammonium from domestic wastewater using polymer hydrogels. Scientific Reports, 2018, 8, 2912.	1.6	53
29	A comprehensive laboratory assessment of the effects of sewer-dosed iron salts on wastewater treatment processes. Water Research, 2018, 146, 109-117.	5.3	56
30	Carbon emission avoidance and capture by producing in-reactor microbial biomass based food, feed and slow release fertilizer: Potentials and limitations. Science of the Total Environment, 2018, 644, 1525-1530.	3.9	39
31	Decoupling Livestock from Land Use through Industrial Feed Production Pathways. Environmental Science & Technology, 2018, 52, 7351-7359.	4.6	124
32	Electrochemical oxidation of iron and alkalinity generation for efficient sulfide control in sewers. Water Research, 2017, 118, 114-120.	5.3	45
33	Simultaneous use of caustic and oxygen for efficient sulfide control in sewers. Science of the Total Environment, 2017, 601-602, 776-783.	3.9	23
34	Microbes and the Next Nitrogen Revolution. Environmental Science & Technology, 2017, 51, 7297-7303.	4.6	85
35	Electrochemical Production of Magnetite Nanoparticles for Sulfide Control in Sewers. Environmental Science & Technology, 2017, 51, 12229-12234.	4.6	12
36	Direct anodic hydrochloric acid and cathodic caustic production during water electrolysis. Scientific Reports, 2016, 6, 20494.	1.6	15

#	Article	IF	Citations
37	Nitrite addition to acidified sludge significantly improves digestibility, toxic metal removal, dewaterability and pathogen reduction. Scientific Reports, 2016, 6, 39795.	1.6	5
38	Effect of biomass concentration on methane oxidation activity using mature compost and graphite granules as substrata. Waste Management, 2016, 56, 290-297.	3.7	6
39	Microbial protein: future sustainable food supply route with low environmental footprint. Microbial Biotechnology, 2016, 9, 568-575.	2.0	227
40	Autotrophic nitrogen assimilation and carbon capture for microbial protein production by a novel enrichment of hydrogen-oxidizing bacteria. Water Research, 2016, 101, 137-146.	5.3	116
41	Electrochemical sulfide removal and caustic recovery from spent caustic streams. Water Research, 2016, 92, 38-43.	5.3	51
42	Feasibility of sulfide control in sewers by reuse ofÂiron rich drinking water treatment sludge. Water Research, 2015, 71, 150-159.	5.3	77
43	Enhancing Toxic Metal Removal from Acidified Sludge with Nitrite Addition. Environmental Science & Technology, 2015, 49, 6257-6263.	4.6	35
44	Scaling-Free Electrochemical Production of Caustic and Oxygen for Sulfide Control in Sewers. Environmental Science & Technology, 2015, 49, 11395-11402.	4.6	9
45	Electrochemical Abatement of Hydrogen Sulfide from Waste Streams. Critical Reviews in Environmental Science and Technology, 2015, 45, 1555-1578.	6.6	75
46	Reducing sewer corrosion through integrated urban water management. Science, 2014, 345, 812-814.	6.0	194
47	In-situ caustic generation from sewage: The impact of caustic strength and sewage composition. Water Research, 2013, 47, 5828-5835.	5.3	18
48	Dynamically Adaptive Control System for Bioanodes in Serially Stacked Bioelectrochemical Systems. Environmental Science & Technology, 2013, 47, 5488-5494.	4.6	31
49	Long-term field test of an electrochemical method for sulfide removal from sewage. Water Research, 2012, 46, 3085-3093.	5.3	24
50	Electrochemical sulfide removal from synthetic and real domestic wastewater at high current densities. Water Research, 2011, 45, 2281-2289.	5.3	66
51	Electrochemical sulfide oxidation from domestic wastewater using mixed metal-coated titanium electrodes. Water Research, 2011, 45, 5381-5388.	5.3	93
52	Electrochemical caustic generation from sewage. Electrochemistry Communications, 2011, 13, 1202-1204.	2.3	20
53	Sorption of organic compounds to activated carbons. Evaluation of isotherm models. Chemosphere, 2006, 65, 2343-2351.	4.2	58