

# Ilje Pikaar

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Innovation can accelerate the transition towards a sustainable food system. <i>Nature Food</i> , 2020, 1, 266-272.	6.2	285
2	Microbial protein: future sustainable food supply route with low environmental footprint. <i>Microbial Biotechnology</i> , 2016, 9, 568-575.	2.0	227
3	Reducing sewer corrosion through integrated urban water management. <i>Science</i> , 2014, 345, 812-814.	6.0	194
4	Articulating the effect of food systems innovation on the Sustainable Development Goals. <i>Lancet Planetary Health</i> , The, 2021, 5, e50-e62.	5.1	135
5	Mainstream Ammonium Recovery to Advance Sustainable Urban Wastewater Management. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11066-11079.	4.6	126
6	Decoupling Livestock from Land Use through Industrial Feed Production Pathways. <i>Environmental Science &amp; Technology</i> , 2018, 52, 7351-7359.	4.6	124
7	Autotrophic nitrogen assimilation and carbon capture for microbial protein production by a novel enrichment of hydrogen-oxidizing bacteria. <i>Water Research</i> , 2016, 101, 137-146.	5.3	116
8	Purple phototrophic bacteria for resource recovery: Challenges and opportunities. <i>Biotechnology Advances</i> , 2020, 43, 107567.	6.0	103
9	Electrochemical sulfide oxidation from domestic wastewater using mixed metal-coated titanium electrodes. <i>Water Research</i> , 2011, 45, 5381-5388.	5.3	93
10	Microbes and the Next Nitrogen Revolution. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7297-7303.	4.6	85
11	Feasibility of sulfide control in sewers by reuse of iron rich drinking water treatment sludge. <i>Water Research</i> , 2015, 71, 150-159.	5.3	77
12	Electrochemical Abatement of Hydrogen Sulfide from Waste Streams. <i>Critical Reviews in Environmental Science and Technology</i> , 2015, 45, 1555-1578.	6.6	75
13	Electrochemical sulfide removal from synthetic and real domestic wastewater at high current densities. <i>Water Research</i> , 2011, 45, 2281-2289.	5.3	66
14	Sorption of organic compounds to activated carbons. Evaluation of isotherm models. <i>Chemosphere</i> , 2006, 65, 2343-2351.	4.2	58
15	A comprehensive laboratory assessment of the effects of sewer-dosed iron salts on wastewater treatment processes. <i>Water Research</i> , 2018, 146, 109-117.	5.3	56
16	Rapid removal of ammonium from domestic wastewater using polymer hydrogels. <i>Scientific Reports</i> , 2018, 8, 2912.	1.6	53
17	Upcycling of biowaste carbon and nutrients in line with consumer confidence: the "full gas" route to single cell protein. <i>Green Chemistry</i> , 2020, 22, 4912-4929.	4.6	53
18	Electrochemical sulfide removal and caustic recovery from spent caustic streams. <i>Water Research</i> , 2016, 92, 38-43.	5.3	51

#	ARTICLE	IF	CITATIONS
19	The hydrogen gas bio-based economy and the production of renewable building block chemicals, food and energy. <i>New Biotechnology</i> , 2020, 55, 12-18.	2.4	46
20	Electrochemical oxidation of iron and alkalinity generation for efficient sulfide control in sewers. <i>Water Research</i> , 2017, 118, 114-120.	5.3	45
21	Effects of in-sewer dosing of iron-rich drinking water sludge on wastewater collection and treatment systems. <i>Water Research</i> , 2020, 171, 115396.	5.3	40
22	Carbon emission avoidance and capture by producing in-reactor microbial biomass based food, feed and slow release fertilizer: Potentials and limitations. <i>Science of the Total Environment</i> , 2018, 644, 1525-1530.	3.9	39
23	Enhancing Toxic Metal Removal from Acidified Sludge with Nitrite Addition. <i>Environmental Science &amp; Technology</i> , 2015, 49, 6257-6263.	4.6	35
24	Recovery of in-sewer dosed iron from digested sludge at downstream treatment plants and its reuse potential. <i>Water Research</i> , 2020, 174, 115627.	5.3	35
25	Dynamically Adaptive Control System for Bioanodes in Serially Stacked Bioelectrochemical Systems. <i>Environmental Science &amp; Technology</i> , 2013, 47, 5488-5494.	4.6	31
26	Anode materials for sulfide oxidation in alkaline wastewater: An activity and stability performance comparison. <i>Water Research</i> , 2019, 149, 111-119.	5.3	27
27	Long-term field test of an electrochemical method for sulfide removal from sewage. <i>Water Research</i> , 2012, 46, 3085-3093.	5.3	24
28	Modified Poly(acrylic acid)-Based Hydrogels for Enhanced Mainstream Removal of Ammonium from Domestic Wastewater. <i>Environmental Science &amp; Technology</i> , 2020, 54, 9573-9583.	4.6	24
29	Simultaneous use of caustic and oxygen for efficient sulfide control in sewers. <i>Science of the Total Environment</i> , 2017, 601-602, 776-783.	3.9	23
30	Electrochemical caustic generation from sewage. <i>Electrochemistry Communications</i> , 2011, 13, 1202-1204.	2.3	20
31	Assessing the potential for upcycling recovered resources from anaerobic digestion through microbial protein production. <i>Microbial Biotechnology</i> , 2021, 14, 897-910.	2.0	20
32	Full-scale investigation of in-situ iron and alkalinity generation for efficient sulfide control. <i>Water Research</i> , 2019, 167, 115032.	5.3	19
33	In-situ caustic generation from sewage: The impact of caustic strength and sewage composition. <i>Water Research</i> , 2013, 47, 5828-5835.	5.3	18
34	Opportunities for reducing coagulants usage in urban water management: The Oxley Creek Sewage Collection and Treatment System as an example. <i>Water Research</i> , 2019, 165, 114996.	5.3	17
35	The impact of primary sedimentation on the use of iron-rich drinking water sludge on the urban wastewater system. <i>Journal of Hazardous Materials</i> , 2021, 402, 124051.	6.5	16
36	Direct anodic hydrochloric acid and cathodic caustic production during water electrolysis. <i>Scientific Reports</i> , 2016, 6, 20494.	1.6	15

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37	Effects of aging of ferric-based drinking water sludge on its reactivity for sulfide and phosphate removal. <i>Water Research</i> , 2020, 184, 116179.	5.3	15
38	The Urgent Need to Re-engineer Nitrogen-Efficient Food Production for the Planet. , 2018, , 35-69.		14
39	Electrochemical Production of Magnetite Nanoparticles for Sulfide Control in Sewers. <i>Environmental Science &amp; Technology</i> , 2017, 51, 12229-12234.	4.6	12
40	Magnetic poly(acrylic acid)-based hydrogels for rapid ammonium sorption and efficient sorbent separation from sewage. <i>Environmental Science and Ecotechnology</i> , 2021, 6, 100097.	6.7	10
41	Scaling-Free Electrochemical Production of Caustic and Oxygen for Sulfide Control in Sewers. <i>Environmental Science &amp; Technology</i> , 2015, 49, 11395-11402.	4.6	9
42	Resource recovery from water: From concept to standard practice. <i>Water Research</i> , 2020, 178, 115856.	5.3	8
43	Effect of biomass concentration on methane oxidation activity using mature compost and graphite granules as substrata. <i>Waste Management</i> , 2016, 56, 290-297.	3.7	6
44	Nitrite addition to acidified sludge significantly improves digestibility, toxic metal removal, dewaterability and pathogen reduction. <i>Scientific Reports</i> , 2016, 6, 39795.	1.6	5
45	Measuring development of environmental awareness and moral reasoning: A case-study of a civil engineering course. <i>European Journal of Engineering Education</i> , 2019, 44, 954-968.	1.5	5
46	Production of single-cell proteins from organic matter and residual nitrogen. , 2020, , 355-389.		3
47	Influence of inoculum selection on the utilisation of volatile fatty acid and glucose in sulfate reducing reactors. <i>Environmental Technology (United Kingdom)</i> , 2020, , 1-12.	1.2	1
48	Nutrient recovery from water and wastewater. , 2022, , 245-293.		0
49	Upscaled and validated technologies for the production of bio-based materials from wastewater. , 2022, , 197-222.		0
50	Producing microbial-based protein from reactive nitrogen recovered from wastewater. , 2022, , 223-244.		0
51	Resource recovery from drinking water production facilities: what and how much is there?. , 2022, , 49-60.		0
52	Closing the loop within the water sector: circular resources. , 2022, , 319-337.		0
53	Resource recovery from municipal wastewater: what and how much is there?. , 2022, , 1-19.		0