

# Britt-Marie WilÃ©n

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

3,472  
citations

201575

27  
h-index

175177

52  
g-index

55  
all docs

55  
docs citations

55  
times ranked

3171  
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of key chemical constituents in activated sludge on surface and flocculating properties. <i>Water Research</i> , 2003, 37, 2127-2139.	5.3	515
2	Impacts of morphological, physical and chemical properties of sludge flocs on dewaterability of activated sludge. <i>Chemical Engineering Journal</i> , 2004, 98, 115-126.	6.6	346
3	A comprehensive insight into floc characteristics and their impact on compressibility and settleability of activated sludge. <i>Chemical Engineering Journal</i> , 2003, 95, 221-234.	6.6	313
4	The effect of dissolved oxygen concentration on the structure, size and size distribution of activated sludge flocs. <i>Water Research</i> , 1999, 33, 391-400.	5.3	194
5	The mechanisms of granulation of activated sludge in wastewater treatment, its optimization, and impact on effluent quality. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 5005-5020.	1.7	139
6	Relationship between floc composition and flocculation and settling properties studied at a full scale activated sludge plant. <i>Water Research</i> , 2008, 42, 4404-4418.	5.3	121
7	Microbial Population Dynamics and Ecosystem Functions of Anoxic/Aerobic Granular Sludge in Sequencing Batch Reactors Operated at Different Organic Loading Rates. <i>Frontiers in Microbiology</i> , 2017, 8, 770.	1.5	113
8	Anaerobic deflocculation and aerobic reflocculation of activated sludge. <i>Water Research</i> , 2000, 34, 3933-3942.	5.3	111
9	Structure and composition of biofilm communities in a moving bed biofilm reactor for nitritation-anammox at low temperatures. <i>Bioresource Technology</i> , 2014, 154, 267-273.	4.8	108
10	Impacts of structural characteristics on activated sludge floc stability. <i>Water Research</i> , 2003, 37, 3632-3645.	5.3	105
11	Microbial community structure in activated sludge floc analysed by fluorescence in situ hybridization and its relation to floc stability. <i>Water Research</i> , 2008, 42, 2300-2308.	5.3	102
12	Influence of microbial activity on the stability of activated sludge flocs. <i>Colloids and Surfaces B: Biointerfaces</i> , 2000, 18, 145-156.	2.5	99
13	The Choice of PCR Primers Has Great Impact on Assessments of Bacterial Community Diversity and Dynamics in a Wastewater Treatment Plant. <i>PLoS ONE</i> , 2013, 8, e76431.	1.1	99
14	A novel bioelectrochemical BOD sensor operating with voltage input. <i>Water Research</i> , 2012, 46, 6113-6120.	5.3	93
15	Treatment of municipal wastewater with aerobic granular sludge. <i>Critical Reviews in Environmental Science and Technology</i> , 2018, 48, 119-166.	6.6	77
16	A comparison of aerobic granular sludge with conventional and compact biological treatment technologies. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 2769-2778.	1.2	75
17	Long-term stability of partial nitritation-anammox for treatment of municipal wastewater in a moving bed biofilm reactor pilot system. <i>Science of the Total Environment</i> , 2020, 714, 136342.	3.9	74
18	Three-Dimensional Stratification of Bacterial Biofilm Populations in a Moving Bed Biofilm Reactor for Nitritation-Anammox. <i>International Journal of Molecular Sciences</i> , 2014, 15, 2191-2206.	1.8	55

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19	Community structure of partial nitrification-anammox biofilms at decreasing substrate concentrations and low temperature. <i>Microbial Biotechnology</i> , 2017, 10, 761-772.	2.0	51
20	Drivers of bioaggregation from flocs to biofilms and granular sludge. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 2072-2089.	1.2	50
21	Effect of Start-Up Strategies and Electrode Materials on Carbon Dioxide Reduction on Biocathodes. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	48
22	Combined Deterministic and Stochastic Processes Control Microbial Succession in Replicate Granular Biofilm Reactors. <i>Environmental Science &amp; Technology</i> , 2019, 53, 4912-4921.	4.6	44
23	Comparison of the bacterial community composition in the granular and the suspended phase of sequencing batch reactors. <i>AMB Express</i> , 2017, 7, 168.	1.4	41
24	Integration of aerobic granular sludge and membrane bioreactors for wastewater treatment. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 801-816.	5.1	38
25	Diversity and dynamics of Archaea in an activated sludge wastewater treatment plant. <i>BMC Microbiology</i> , 2012, 12, 140.	1.3	35
26	Flocculation of activated sludge flocs by stimulation of the aerobic biological activity. <i>Water Research</i> , 2004, 38, 3909-3919.	5.3	34
27	Effects of Wash-Out Dynamics on Nitrifying Bacteria in Aerobic Granular Sludge During Start-Up at Gradually Decreased Settling Time. <i>Water (Switzerland)</i> , 2016, 8, 172.	1.2	34
28	Short term effects of dissolved oxygen concentration on the turbidity of the supernatant of activated sludge. <i>Water Science and Technology</i> , 1998, 38, 25-33.	1.2	27
29	Determination of external and internal mass transfer limitation in nitrifying microbial aggregates. <i>Biotechnology and Bioengineering</i> , 2004, 86, 445-457.	1.7	27
30	Nonoxidative removal of organics in the activated sludge process. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 1-38.	6.6	27
31	Influence of flocculation and settling properties of activated sludge in relation to secondary settler performance. <i>Water Science and Technology</i> , 2006, 54, 147-155.	1.2	26
32	PAC dosing to an MBBR - Effects on adsorption of micropollutants, nitrification and microbial community. <i>Science of the Total Environment</i> , 2019, 677, 571-579.	3.9	23
33	Hill-based dissimilarity indices and null models for analysis of microbial community assembly. <i>Microbiome</i> , 2020, 8, 132.	4.9	22
34	Metagenomic evidence of a novel family of anammox bacteria in a subsea environment. <i>Environmental Microbiology</i> , 2022, 24, 2348-2360.	1.8	22
35	Response to starvation and microbial community composition in microbial fuel cells enriched on different electron donors. <i>Microbial Biotechnology</i> , 2019, 12, 962-975.	2.0	21
36	Tools for T-RFLP data analysis using Excel. <i>BMC Bioinformatics</i> , 2014, 15, 361.	1.2	20

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37	Dynamics in Flocculation and Settling Properties Studied at a Full-scale Activated Sludge Plant. <i>Water Environment Research</i> , 2010, 82, 155-168.	1.3	15
38	Removal of organic micropollutants from municipal wastewater by aerobic granular sludge and conventional activated sludge. <i>Journal of Hazardous Materials</i> , 2022, 438, 129528.	6.5	15
39	Effects of storage on mixed-culture biological electrodes. <i>Scientific Reports</i> , 2015, 5, 18433.	1.6	14
40	Impact of T-RFLP data analysis choices on assessments of microbial community structure and dynamics. <i>BMC Bioinformatics</i> , 2014, 15, 360.	1.2	13
41	A variety of hydrogenotrophic enrichment cultures catalyse cathodic reactions. <i>Scientific Reports</i> , 2019, 9, 2356.	1.6	12
42	Wastewater management in small towns – understanding the failure of small treatment plants in Bolivia. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 1393-1403.	1.2	11
43	Sorption and Release of Organics by Primary, Anaerobic, and Aerobic Activated Sludge Mixed with Raw Municipal Wastewater. <i>PLoS ONE</i> , 2015, 10, e0119371.	1.1	11
44	Long-term dynamics of the bacterial community in a Swedish full-scale wastewater treatment plant. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 912-928.	1.2	9
45	Laboratory-scale assessment of vacuum-degassed activated sludge for improved settling properties. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 2193-2201.	1.2	8
46	Subsea tunnel reinforced sprayed concrete subjected to deterioration harbours distinct microbial communities. <i>Biofouling</i> , 2018, 34, 1161-1174.	0.8	8
47	A relationship between phages and organic carbon in wastewater treatment plant effluents. <i>Water Research X</i> , 2022, 16, 100146.	2.8	7
48	A collaborative planning process to develop future scenarios for wastewater systems. <i>Journal of Environmental Management</i> , 2022, 316, 115202.	3.8	6
49	Large scale tertiary filtration – results and experiences from the discfilter plant at the Rya WWTP in Sweden. <i>Water Practice and Technology</i> , 2016, 11, 547-555.	1.0	5
50	The effect of time and surface type on the composition of biofilm communities on concrete exposed to seawater. <i>International Biodeterioration and Biodegradation</i> , 2022, 173, 105458.	1.9	5
51	Reply to comment by Denny S. Parker on “Impact of structural characteristics on activated sludge floc stability” by Britt-Marie WilÅn, Bo Jin and Paul Lant, published in <i>Water Research</i> (2003) 37, p. 3632–3645. <i>Water Research</i> , 2005, 39, 738-740.	5.3	1
52	The Choice of PCR Primers Has Great Impact on Assessments of Bacterial Community Diversity and Dynamics in a Wastewater Treatment Plant. , 2015, , 55-99.		1