

# Malte Hermansson

## List of Publications by Year in descending order

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Version: 2024-02-01

52  
papers

4,235  
citations

109264

35  
h-index

175177

52  
g-index

53  
all docs

53  
docs citations

53  
times ranked

5115  
citing authors

#	ARTICLE	IF	CITATIONS
1	The DLVO theory in microbial adhesion. <i>Colloids and Surfaces B: Biointerfaces</i> , 1999, 14, 105-119.	2.5	783
2	Starvation-Induced Effects on Bacterial Surface Characteristics. <i>Applied and Environmental Microbiology</i> , 1984, 48, 497-503.	1.4	215
3	N -Acetyl- l -Cysteine Affects Growth, Extracellular Polysaccharide Production, and Bacterial Biofilm Formation on Solid Surfaces. <i>Applied and Environmental Microbiology</i> , 2003, 69, 4814-4822.	1.4	214
4	Effects of Ionic Strength on Bacterial Adhesion and Stability of Flocs in a Wastewater Activated Sludge System. <i>Applied and Environmental Microbiology</i> , 1994, 60, 3041-3048.	1.4	207
5	The hydrophobicity of bacteria ? An important factor in their initial adhesion at the air-water interface. <i>Archives of Microbiology</i> , 1981, 128, 267-270.	1.0	197
6	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
7	The IncP-1 plasmid backbone adapts to different host bacterial species and evolves through homologous recombination. <i>Nature Communications</i> , 2011, 2, 268.	5.8	134
8	In Situ Detection of High Levels of Horizontal Plasmid Transfer in Marine Bacterial Communities. <i>Applied and Environmental Microbiology</i> , 1998, 64, 2670-2675.	1.4	130
9	Hydrophobic and electrostatic characterization of surface structures of bacteria and its relationship to adhesion to an air-water interface. <i>Archives of Microbiology</i> , 1982, 131, 308-312.	1.0	116
10	Adhesion of Type 1-Fimbriated <i>Escherichia coli</i> to Abiotic Surfaces Leads to Altered Composition of Outer Membrane Proteins. <i>Journal of Bacteriology</i> , 2001, 183, 2445-2453.	1.0	108
11	Structure and composition of biofilm communities in a moving bed biofilm reactor for nitrification-anammox at low temperatures. <i>Bioresource Technology</i> , 2014, 154, 267-273.	4.8	108
12	Effect of Ionic Strength on Initial Interactions of <i>Escherichia coli</i> with Surfaces, Studied On-Line by a Novel Quartz Crystal Microbalance Technique. <i>Journal of Bacteriology</i> , 1999, 181, 5210-5218.	1.0	107
13	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
14	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
15	Determination of bacterial cell surface hydrophobicity of single cells in cultures and in wastewater in situ. <i>FEMS Microbiology Letters</i> , 2006, 152, 299-306.	0.7	91
16	Floc stability and adhesion of green-fluorescent-protein-marked bacteria to flocs in activated sludge. <i>Microbiology (United Kingdom)</i> , 1998, 144, 519-528.	0.7	82
17	Inactivation of <i>ompX</i> Causes Increased Interactions of Type 1 Fimbriated <i>Escherichia coli</i> with Abiotic Surfaces. <i>Journal of Bacteriology</i> , 2004, 186, 226-234.	1.0	82
18	Effects of environmental conditions on the nitrifying population dynamics in a pilot wastewater treatment plant. <i>Environmental Microbiology</i> , 2007, 9, 2220-2233.	1.8	78

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19	Thickness determines microbial community structure and function in nitrifying biofilms via deterministic assembly. <i>Scientific Reports</i> , 2019, 9, 5110.	1.6	74
20	Long-term stability of partial nitrification-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
21	<i>Undibacterium pigrum</i> gen. nov., sp. nov., isolated from drinking water. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2007, 57, 1510-1515.	0.8	73
22	New Methods for Analysis of Spatial Distribution and Coaggregation of Microbial Populations in Complex Biofilms. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5978-5987.	1.4	64
23	Vertical distribution of nitrifying populations in bacterial biofilms from a full-scale nitrifying trickling filter. <i>Environmental Microbiology</i> , 2006, 8, 2036-2049.	1.8	61
24	The role of type 1 fimbriae in adhesion of <i>Escherichia coli</i> to hydrophilic and hydrophobic surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 1999, 15, 99-111.	2.5	56
25	Three-Dimensional Stratification of Bacterial Biofilm Populations in a Moving Bed Biofilm Reactor for Nitrification-Anammox. <i>International Journal of Molecular Sciences</i> , 2014, 15, 2191-2206.	1.8	55
26	Distribution and activity of ammonia oxidizing bacteria in a large full-scale trickling filter. <i>Water Research</i> , 2002, 36, 1439-1448.	5.3	54
27	The inhibitory effects of reject water on nitrifying populations grown at different biofilm thickness. <i>Water Research</i> , 2016, 104, 292-302.	5.3	54
28	Inhibition of metal corrosion by bacteria. <i>Biofouling</i> , 1991, 3, 1-11.	0.8	52
29	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
30	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
31	Use of a Quartz Crystal Microbalance To Investigate the Antiadhesive Potential of N -Acetyl- l -Cysteine. <i>Applied and Environmental Microbiology</i> , 2005, 71, 2705-2712.	1.4	46
32	Bacterial activity at the air/water interface. <i>Microbial Ecology</i> , 1983, 9, 317-328.	1.4	44
33	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
34	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
35	Ecological role of a seaweed secondary metabolite for a colonizing bacterial community. <i>Biofouling</i> , 2011, 27, 579-588.	0.8	37
36	Diversity and dynamics of Archaea in an activated sludge wastewater treatment plant. <i>BMC Microbiology</i> , 2012, 12, 140.	1.3	35

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37	Characterisation of the behaviour of particles in biofilters for pre-treatment of drinking water. <i>Water Research</i> , 2005, 39, 3791-3800.	5.3	34
38	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
39	Gene transfer in the marine environment. <i>FEMS Microbiology Ecology</i> , 1994, 15, 47-54.	1.3	25
40	Incorporation of tritiated thymidine by marine bacterial isolates when undergoing a starvation survival response. <i>Archives of Microbiology</i> , 1988, 149, 427-432.	1.0	22
41	Hill-based dissimilarity indices and null models for analysis of microbial community assembly. <i>Microbiome</i> , 2020, 8, 132.	4.9	22
42	Metagenomic evidence of a novel family of anammox bacteria in a subsea environment. <i>Environmental Microbiology</i> , 2022, 24, 2348-2360.	1.8	22
43	Predation of nitrification- and anammox biofilms used for nitrogen removal from wastewater. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv124.	1.3	21
44	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
45	Gold Nanoparticle-Assisted Self-Assembly of Chemical Gradients with Tunable Sub-50 nm Molecular Domains. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 209-218.	1.2	19
46	Effects of storage on mixed-culture biological electrodes. <i>Scientific Reports</i> , 2015, 5, 18433.	1.6	14
47	Complete Nucleotide Sequence and Analysis of Two Conjugative Broad Host Range Plasmids from a Marine Microbial Biofilm. <i>PLoS ONE</i> , 2014, 9, e92321.	1.1	14
48	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
49	A variety of hydrogenotrophic enrichment cultures catalyse cathodic reactions. <i>Scientific Reports</i> , 2019, 9, 2356.	1.6	12
50	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
51	Oligotrophic and copiotrophic marine bacteria "observations related to attachment. <i>FEMS Microbiology Letters</i> , 1985, 31, 89-96.	0.7	3
52	Bacterial corrosion of iron in seawater in situ, and in aerobic and anaerobic model systems. , 0, .		1