

# Hans-Curt Flemming

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

17,991  
citations

101384

36  
h-index

205818

48  
g-index

52  
all docs

52  
docs citations

52  
times ranked

19772  
citing authors

#	ARTICLE	IF	CITATIONS
1	The biofilm matrix. <i>Nature Reviews Microbiology</i> , 2010, 8, 623-633.	13.6	7,296
2	Biofilms: an emergent form of bacterial life. <i>Nature Reviews Microbiology</i> , 2016, 14, 563-575.	13.6	3,725
3	The EPS Matrix: The "House of Biofilm Cells". <i>Journal of Bacteriology</i> , 2007, 189, 7945-7947.	1.0	1,379
4	Bacteria and archaea on Earth and their abundance in biofilms. <i>Nature Reviews Microbiology</i> , 2019, 17, 247-260.	13.6	965
5	FTIR-spectroscopy in microbial and material analysis. <i>International Biodeterioration and Biodegradation</i> , 1998, 41, 1-11.	1.9	516
6	Biofilms in drinking water and their role as reservoir for pathogens. <i>International Journal of Hygiene and Environmental Health</i> , 2011, 214, 417-423.	2.1	396
7	Reverse osmosis membrane biofouling. <i>Experimental Thermal and Fluid Science</i> , 1997, 14, 382-391.	1.5	355
8	The role of intermolecular interactions: studies on model systems for bacterial biofilms. <i>International Journal of Biological Macromolecules</i> , 1999, 26, 3-16.	3.6	309
9	Application of fluorescently labelled lectins for the visualization and biochemical characterization of polysaccharides in biofilms of <i>Pseudomonas aeruginosa</i> . <i>Journal of Microbiological Methods</i> , 2002, 50, 237-248.	0.7	248
10	EPS "Then and Now". <i>Microorganisms</i> , 2016, 4, 41.	1.6	232
11	Extracellular polymeric substances of biofilms: Suffering from an identity crisis. <i>Water Research</i> , 2019, 151, 1-7.	5.3	228
12	Biodegradation of cis -1,4-Polyisoprene Rubbers by Distinct Actinomycetes: Microbial Strategies and Detailed Surface Analysis. <i>Applied and Environmental Microbiology</i> , 2000, 66, 1639-1645.	1.4	158
13	Integration of <i>Pseudomonas aeruginosa</i> and <i>Legionella pneumophila</i> in drinking water biofilms grown on domestic plumbing materials. <i>International Journal of Hygiene and Environmental Health</i> , 2010, 213, 190-197.	2.1	148
14	[25] Isolation and biochemical characterization of extracellular polymeric substances from <i>Pseudomonas aeruginosa</i> . <i>Methods in Enzymology</i> , 2001, 336, 302-314.	0.4	146
15	The perfect slime. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 86, 251-259.	2.5	134
16	Biofouling and me: My Stockholm syndrome with biofilms. <i>Water Research</i> , 2020, 173, 115576.	5.3	123
17	Fungal flora in groundwater-derived public drinking water. <i>International Journal of Hygiene and Environmental Health</i> , 2002, 205, 269-279.	2.1	108
18	Extracellular enzymes affect biofilm formation of mucoid <i>Pseudomonas aeruginosa</i> . <i>Microbiology (United Kingdom)</i> , 2010, 156, 2239-2252.	0.7	102

#	ARTICLE	IF	CITATIONS
19	Influence of extracellular polymeric substances on deposition and redeposition of <i>Pseudomonas aeruginosa</i> to surfaces. <i>Microbiology (United Kingdom)</i> , 2002, 148, 1161-1169.	0.7	100
20	<sup>13</sup> C-NMR study of the interaction of bacterial alginate with bivalent cations. <i>International Journal of Biological Macromolecules</i> , 2003, 33, 81-88.	3.6	93
21	Alginate acetylation influences initial surface colonization by mucoid <i>Pseudomonas aeruginosa</i> . <i>Microbiological Research</i> , 2005, 160, 165-176.	2.5	87
22	<i>Microbial Biofouling: Unsolved Problems, Insufficient Approaches, and Possible Solutions</i> . Springer Series on Biofilms, 2011, , 81-109.	0.0	81
23	Contamination of drinking water by coliforms from biofilms grown on rubber-coated valves. <i>International Journal of Hygiene and Environmental Health</i> , 2003, 206, 563-573.	2.1	79
24	Influence of copper ions on the viability and cytotoxicity of <i>Pseudomonas aeruginosa</i> under conditions relevant to drinking water environments. <i>International Journal of Hygiene and Environmental Health</i> , 2011, 214, 485-492.	2.1	79
25	Interaction between extracellular lipase LipA and the polysaccharide alginate of <i>Pseudomonas aeruginosa</i> . <i>BMC Microbiology</i> , 2013, 13, 159.	1.3	75
26	The permeability of biofouling layers on membranes. <i>Journal of Membrane Science</i> , 1994, 87, 199-217.	4.1	68
27	Biocide-free antifouling strategy to protect RO membranes from biofouling. <i>Desalination</i> , 1998, 118, 153-159.	4.0	64
28	Who put the film in biofilm? The migration of a term from wastewater engineering to medicine and beyond. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 10.	2.9	62
29	Microbial growth on ion exchangers. <i>Water Research</i> , 1987, 21, 745-756.	5.3	55
30	Capability of mucoid <i>Pseudomonas aeruginosa</i> to survive in chlorinated water. <i>International Journal of Hygiene and Environmental Health</i> , 2001, 204, 139-142.	2.1	54
31	Changes of biofilm properties in response to sorbed substances - an FTIR-ATR study. <i>Water Science and Technology</i> , 1995, 32, 149-155.	1.2	52
32	Survival of <i>Deinococcus geothermalis</i> in Biofilms under Desiccation and Simulated Space and Martian Conditions. <i>Astrobiology</i> , 2017, 17, 431-447.	1.5	50
33	Minimum information about a biofilm experiment (MIABiE): standards for reporting experiments and data on sessile microbial communities living at interfaces. <i>Pathogens and Disease</i> , 2014, 70, 250-256.	0.8	43
34	Nanosilver induces a non-culturable but metabolically active state in <i>Pseudomonas aeruginosa</i> . <i>Frontiers in Microbiology</i> , 2015, 06, 395.	1.5	38
35	Water in bacterial biofilms: pores and channels, storage and transport functions. <i>Critical Reviews in Microbiology</i> , 2022, 48, 283-302.	2.7	38
36	Controlling the hydraulic resistance of membrane biofilms by engineering biofilm physical structure. <i>Water Research</i> , 2022, 210, 118031.	5.3	37

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37	Interactions between laponite and microbial biofilms in porous media: implications for colloid transport and biofilm stability. <i>Water Research</i> , 2004, 38, 3614-3626.	5.3	35
38	Mini-review: microbial problems in paper production. <i>Biofouling</i> , 2013, 29, 683-696.	0.8	34
39	Simultaneous monitoring of biofilm growth, microbial activity, and inorganic deposits on surfaces with an <i>in situ</i> , online, real-time, non-destructive, optical sensor. <i>Biofouling</i> , 2013, 29, 573-583.	0.8	29
40	Influence of biofilms on the movement of colloids in porous media. Implications for colloid facilitated transport in subsurface environments. <i>Water Research</i> , 2007, 41, 2059-2068.	5.3	27
41	Nitrifying niche differentiation in biofilms from full-scale chloraminated drinking water distribution system. <i>Water Research</i> , 2020, 176, 115738.	5.3	26
42	Post-industrial river water quality – Fit for bathing again?. <i>International Journal of Hygiene and Environmental Health</i> , 2016, 219, 629-642.	2.1	19
43	Tolerances of <i>Deinococcus geothermalis</i> Biofilms and Planktonic Cells Exposed to Space and Simulated Martian Conditions in Low Earth Orbit for Almost Two Years. <i>Astrobiology</i> , 2019, 19, 979-994.	1.5	19
44	Lesser-known or hidden reservoirs of infection and implications for adequate prevention strategies: Where to look and what to look for. <i>GMS Hygiene and Infection Control</i> , 2015, 10, Doc04.	0.2	16
45	How dead is dead? Viable but non-culturable versus persister cells. <i>Environmental Microbiology Reports</i> , 2021, 13, 243-245.	1.0	12
46	Exposure to 1-Butanol Exemplifies the Response of the Thermoacidophilic Archaeon <i>Sulfolobus acidocaldarius</i> to Solvent Stress. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	1.4	8
47	Industrial Biofouling. <i>Materials Today</i> , 2011, 14, 565.	8.3	1