# Hans-Curt Flemming

List of Publications by Year
in descending order



| 47 | 17,991 | 101384 36 | 205818 48 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 52 | 52 | 52 | 19772 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Water in bacterial biofilms: pores and channels, storage and transport functions. Critical Reviews in Microbiology, 2022, 48, 283-302. | 2.7 | 38 |
| 2 | Controlling the hydraulic resistance of membrane biofilms by engineering biofilm physical structure. Water Research, 2022, 210, 118031. | 5.3 | 37 |
| 3 | Who put the film in biofilm? The migration of a term from wastewater engineering to medicine and beyond. Npj Biofilms and Microbiomes, 2021, 7, 10. | 2.9 | 62 |
| 4 | How dead is dead? Viable but nonâ€culturable versus persister cells. Environmental Microbiology Reports, 2021, 13, 243-245. | 1.0 | 12 |
| 5 | Exposure to 1-Butanol Exemplifies the Response of the Thermoacidophilic Archaeon Sulfolobus acidocaldarius to Solvent Stress. Applied and Environmental Microbiology, 2021, 87, . | 1.4 | 8 |
| 6 | Nitrifying niche differentiation in biofilms from full-scale chloraminated drinking water distribution system. Water Research, 2020, 176, 115738. | 5.3 | 26 |
| 7 | Biofouling and me: My Stockholm syndrome with biofilms. Water Research, 2020, 173, 115576. | 5.3 | 123 |
| 8 | Tolerances ofDeinococcus geothermalisBiofilms and Planktonic Cells Exposed to Space and Simulated Martian Conditions in Low Earth Orbit for Almost Two Years. Astrobiology, 2019, 19, 979-994. | 1.5 | 19 |
| 9 | Bacteria and archaea on Earth and their abundance in biofilms. Nature Reviews Microbiology, 2019, 17, 247-260. | 13.6 | 965 |
| 10 | Extracellular polymeric substances of biofilms: Suffering from an identity crisis. Water Research, 2019, 151, 1-7. | 5.3 | 228 |
| 11 | Survival ofDeinococcus geothermalisin Biofilms under Desiccation and Simulated Space and Martian Conditions. Astrobiology, 2017, 17, 431-447. | 1.5 | 50 |
| 12 | EPSâ€”Then and Now. Microorganisms, 2016, 4, 41. | 1.6 | 232 |
| 13 | Post-industrial river water qualityâ€”Fit for bathing again?. International Journal of Hygiene and Environmental Health, 2016, 219, 629-642. | 2.1 | 19 |
| 14 | Biofilms: an emergent form of bacterial life. Nature Reviews Microbiology, 2016, 14, 563-575. | 13.6 | 3,725 |
| 15 | Nanosilver induces a non-culturable but metabolically active state in Pseudomonas aeruginosa. Frontiers in Microbiology, 2015, 06, 395. | 1.5 | 38 |
| 16 | Lesser-known or hidden reservoirs of infection and implications for adequate prevention strategies: Where to look and what to look for. GMS Hygiene and Infection Control, 2015, 10, Doc04. | 0.2 | 16 |
| 17 | Minimum information about a biofilm experiment (MIABiE): standards for reporting experiments and data on sessile microbial communities living at interfaces. Pathogens and Disease, 2014, 70, 250-256. | 0.8 | 43 |
| 18 | Interaction between extracellular lipase LipA and the polysaccharide alginate of Pseudomonas aeruginosa. BMC Microbiology, 2013, 13, 159. | 1.3 | 75 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Simultaneous monitoring of biofilm growth, microbial activity, and inorganic deposits on surfaces with anin situ, online, real-time, non-destructive, optical sensor. Biofouling, 2013, 29, 573-583. | 0.8 | 29 |
| 20 | Mini-review: microbial problems in paper production. Biofouling, 2013, 29, 683-696. | 0.8 | 34 |
| 21 | Industrial Biofouling. Materials Today, 2011, 14, 565. | 8.3 | 1 |
| 22 | Biofilms in drinking water and their role as reservoir for pathogens. International Journal of Hygiene and Environmental Health, 2011, 214, 417-423. | 2.1 | 396 |
| 23 | Influence of copper ions on the viability and cytotoxicity of Pseudomonas aeruginosa under conditions relevant to drinking water environments. International Journal of Hygiene and Environmental Health, 2011, 214, 485-492. | 2.1 | 79 |
| 24 | The perfect slime. Colloids and Surfaces B: Biointerfaces, 2011, 86, 251-259. | 2.5 | 134 |
| 25 | Microbial Biofouling: Unsolved Problems, Insufficient Approaches, and Possible Solutions. Springer Series on Biofilms, 2011, , 81-109. | 0.0 | 81 |
| 26 | Integration of Pseudomonas aeruginosa and Legionella pneumophila in drinking water biofilms grown on domestic plumbing materials. International Journal of Hygiene and Environmental Health, 2010, 213, 190-197. | 2.1 | 148 |
| 27 | The biofilm matrix. Nature Reviews Microbiology, 2010, 8, 623-633. | 13.6 | 7,296 |
| 28 | Extracellular enzymes affect biofilm formation of mucoid Pseudomonas aeruginosa. Microbiology (United Kingdom), 2010, 156, 2239-2252. | 0.7 | 102 |
| 29 | Influence of biofilms on the movement of colloids in porous media. Implications for colloid facilitated transport in subsurface environments. Water Research, 2007, 41, 2059-2068. | 5.3 | 27 |
| 30 | The EPS Matrix: The â€œHouse of Biofilm Cellsâ€• Journal of Bacteriology, 2007, 189, 7945-7947. | 1.0 | 1,379 |
| 31 | Alginate acetylation influences initial surface colonization by mucoid Pseudomonas aeruginosa. Microbiological Research, 2005, 160, 165-176. | 2.5 | 87 |
| 32 | Interactions between laponite and microbial biofilms in porous media: implications for colloid transport and biofilm stability. Water Research, 2004, 38, 3614-3626. | 5.3 | 35 |
| 33 | Contamination of drinking water by coliforms from biofilms grown on rubber-coated valves. International Journal of Hygiene and Environmental Health, 2003, 206, 563-573. | 2.1 | 79 |
| 34 | 13C-NMR study of the interaction of bacterial alginate with bivalent cations. International Journal of Biological Macromolecules, 2003, 33, 81-88. | 3.6 | 93 |
| 35 | Application of fluorescently labelled lectins for the visualization and biochemical characterization of polysaccharides in biofilms of Pseudomonas aeruginosa. Journal of Microbiological Methods, 2002, 50, 237-248. | 0.7 | 248 |
| 36 | Fungal flora in groundwater-derived public drinking water. International Journal of Hygiene and Environmental Health, 2002, 205, 269-279. | 2.1 | 108 |

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|---|---|---|---|
| 37 | Influence of extracellular polymeric substances on deposition and redeposition of Pseudomonas aeruginosa to surfaces. Microbiology (United Kingdom), 2002, 148, 1161-1169. | 0.7 | 100 |
| 38 | [25] Isolation and biochemical characterization of extracellular polymeric substances from Pseudomonas aeruginosa. Methods in Enzymology, 2001, 336, 302-314. | 0.4 | 146 |
| 39 | Capability of mucoid Pseudomonas aeruginosa to survive in chlorinated water. International Journal of Hygiene and Environmental Health, 2001, 204, 139-142. | 2.1 | 54 |
| 40 | Biodegradation of cis -1,4-Polyisoprene Rubbers by Distinct Actinomycetes: Microbial Strategies and Detailed Surface Analysis. Applied and Environmental Microbiology, 2000, 66, 1639-1645. | 1.4 | 158 |
| 41 | The role of intermolecular interactions: studies on model systems for bacterial biofilms. International Journal of Biological Macromolecules, 1999, 26, 3-16. | 3.6 | 309 |
| 42 | Biocide-free antifouling strategy to protect RO membranes from biofouling. Desalination, 1998, 118, 153-IN9. | 4.0 | 64 |
| 43 | FTIR-spectroscopy in microbial and material analysis. International Biodeterioration and Biodegradation, 1998, 41, 1-11. | 1.9 | 516 |
| 44 | Reverse osmosis membrane biofouling. Experimental Thermal and Fluid Science, 1997, 14, 382-391. | 1.5 | 355 |
| 45 | Changes of biofilm properties in response to sorbed substances - an FTIR-ATR study. Water Science and Technology, 1995, 32, 149-155. | 1.2 | 52 |
| 46 | The permeability of biofouling layers on membranes. Journal of Membrane Science, 1994, 87, 199-217. | 4.1 | 68 |
| 47 | Microbial growth on ion exchangers. Water Research, 1987, 21, 745-756. | 5.3 | 55 |