Thomas R Neu

List of Publications by Citations

162 papers	8,585 citations	49 h-index	88 g-index
165 ext. papers	9,860 ext. citations	5.4 avg, IF	6.26 L-index

#	Paper	IF	Citations
162	The EPS matrix: the "house of biofilm cells". *Journal of Bacteriology*, **2007**, 189, 7945-7	3.5	1067
161	Significance of bacterial surface-active compounds in interaction of bacteria with interfaces. *Microbiological Reviews*, **1996**, 60, 151-66		438
160	Significance of bacterial surface-active compounds in interaction of bacteria with interfaces.. *Microbiological Reviews*, **1996**, 60, 151-166		358
159	Assessment of lectin-binding analysis for in situ detection of glycoconjugates in biofilm systems. *Microbiology (United Kingdom)*, **2001**, 147, 299-313	2.9	215
158	Abundance and spatial organization of Gram-negative sulfate-reducing bacteria in activated sludge investigated by in situ probing with specific 16S rRNA targeted oligonucleotides. *FEMS Microbiology Ecology*, **1998**, 25, 43-61	4.3	198
157	Selective degradation of ibuprofen and clofibric acid in two model river biofilm systems. *Water Research*, **2001**, 35, 3197-205	12.5	172
156	What are Bacterial Extracellular Polymeric Substances? **1999**, 1-19		171
155	Volumetric measurements of bacterial cells and extracellular polymeric substance glycoconjugates in biofilms. *Biotechnology and Bioengineering*, **2004**, 88, 585-92	4.9	166
154	Advanced imaging techniques for assessment of structure, composition and function in biofilm systems. *FEMS Microbiology Ecology*, **2010**, 72, 1-21	4.3	160
153	Development and structure of microbial biofilms in river water studied by confocal laser scanning microscopy. *FEMS Microbiology Ecology*, **2006**, 24, 11-25	4.3	150
152	Phylogenetic Composition, Spatial Structure, and Dynamics of Lotic Bacterial Biofilms Investigated by Fluorescent in Situ Hybridization and Confocal Laser Scanning Microscopy. *Microbial Ecology*, **1999**, 37, 225-237	4.4	146
151	Characterisation of algal organic matter produced by bloom-forming marine and freshwater algae. *Water Research*, **2015**, 73, 216-30	12.5	141
150	Extracellular polymeric substances of biofilms: Suffering from an identity crisis. *Water Research*, **2019**, 151, 1-7	12.5	138
149	Bacterial extracellular DNA forming a defined network-like structure. *FEMS Microbiology Letters*, **2006**, 262, 31-8	2.9	126
148	Contribution of alginate and levan production to biofilm formation by Pseudomonas syringae. *Microbiology (United Kingdom)*, **2006**, 152, 2909-2918	2.9	124
147	Evidence for methane production by saprotrophic fungi. *Nature Communications*, **2012**, 3, 1046	17.4	117
146	Microscale and molecular assessment of impacts of nickel, nutrients, and oxygen level on structure and function of river biofilm communities. *Applied and Environmental Microbiology*, **2004**, 70, 4326-39	4.8	117

145	Application of multiple parameter imaging for the quantification of algal, bacterial and exopolymer components of microbial biofilms. *Journal of Microbiological Methods*, **1998**, 32, 253-261	2.8	112
144	Effects of selected pharmaceuticals on riverine biofilm communities. *Canadian Journal of Microbiology*, **2005**, 51, 655-69	3.2	108
143	Electron transfer and biofilm formation of Shewanella putrefaciens as function of anode potential. *Bioelectrochemistry*, **2013**, 93, 23-9	5.6	106
142	Biodeterioration of medical-grade silicone rubber used for voice prostheses: a SEM study. *Biomaterials*, **1993**, 14, 459-64	15.6	104
141	Bacterial polymers: physicochemical aspects of their interactions at interfaces. *Journal of Biomaterials Applications*, **1990**, 5, 107-33	2.9	102
140	Confocal laser scanning microscopy for analysis of microbial biofilms. *Methods in Enzymology*, **1999**, 310, 131-44	1.7	96
139	Fungal mycelia allow chemotactic dispersal of polycyclic aromatic hydrocarbon-degrading bacteria in water-unsaturated systems. *Environmental Microbiology*, **2010**, 12, 1391-8	5.2	92
138	Structure and shear strength of microbial biofilms as determined with confocal laser scanning microscopy and fluid dynamic gauging using a novel rotating disc biofilm reactor. *Biotechnology and Bioengineering*, **2007**, 98, 747-55	4.9	89
137	Calcite biomineralization by bacterial isolates from the recently discovered pristine karstic herrenberg cave. *Applied and Environmental Microbiology*, **2012**, 78, 1157-67	4.8	85
136	In situ evidence for microdomains in the polymer matrix of bacterial microcolonies. *Canadian Journal of Microbiology*, **2007**, 53, 450-8	3.2	85
135	Lectin-binding analysis in biofilm systems. *Methods in Enzymology*, **1999**, 310, 145-52	1.7	84
134	Microbial footprints: A new approach to adhesive polymers. *Biofouling*, **1991**, 3, 101-112	3.3	84
133	Microscale evaluation of the effects of grazing by invertebrates with contrasting feeding modes on river biofilm architecture and composition. *Microbial Ecology*, **2002**, 44, 199-207	4.4	76
132	Three-dimensional differentiation of photo-autotrophic biofilm constituents by multi-channel laser scanning microscopy (single-photon and two-photon excitation). *Journal of Microbiological Methods* , **2004**, 56, 161-72	2.8	75
131	Assessment of bacterial and structural dynamics in aerobic granular biofilms. *Frontiers in Microbiology*, **2013**, 4, 175	5.7	73
130	Characterization of glycoconjugates of extracellular polymeric substances in tufa-associated biofilms by using fluorescence lectin-binding analysis. *Applied and Environmental Microbiology*, **2011** , 77, 505-16	4.8	72
129	Oxygen profiles and biomass distribution in biopellets of Aspergillus niger. *Biotechnology and Bioengineering*, **2005**, 92, 614-23	4.9	72
128	Assessment of fluorochromes for two-photon laser scanning microscopy of biofilms. *Applied and Environmental Microbiology*, **2002**, 68, 901-9	4.8	72

127	Sorption and metabolism of selected herbicides in river biofilm communities. *Canadian Journal of Microbiology*, **2001**, 47, 634-41	3.2	70
126	Innovative techniques, sensors, and approaches for imaging biofilms at different scales. *Trends in Microbiology*, **2015**, 23, 233-42	12.4	69
125	A simple rotating annular reactor for replicated biofilm studies. *Journal of Microbiological Methods*, **2000**, 42, 215-24	2.8	66
124	Investigation of lotic microbial aggregates by a combined technique of fluorescent in situ hybridization and lectin-binding-analysis. *Journal of Microbiological Methods*, **2002**, 49, 75-87	2.8	63
123	Extracellular DNA in adhesion and biofilm formation of four environmental isolates: a quantitative study. *FEMS Microbiology Ecology*, **2013**, 86, 394-403	4.3	62
122	Tufa-forming biofilms of German karstwater streams: microorganisms, exopolymers, hydrochemistry and calcification. *Geological Society Special Publication*, **2010**, 336, 83-118	1.7	60
121	Enrichment and characterization of a sulfate-reducing toluene-degrading microbial consortium by combining in situ microcosms and stable isotope probing techniques. *FEMS Microbiology Ecology*, **2010**, 71, 237-46	4.3	59
120	Impact of mycelia on the accessibility of fluorene to PAH-degrading bacteria. *Environmental Science & Technology*, **2013**, 47, 6908-15	10.3	58
119	Three stages of a biofilm community developing at the liquid-liquid interface between polychlorinated biphenyls and water. *Applied and Environmental Microbiology*, **2005**, 71, 7301-9	4.8	54
118	Identification of Glycoproteins Isolated from Extracellular Polymeric Substances of Full-Scale Anammox Granular Sludge. *Environmental Science & Technology*, **2018**, 52, 13127-13135	10.3	54
117	Miniaturized calorimetry - a new method for real-time biofilm activity analysis. *Journal of Microbiological Methods*, **2008**, 74, 74-81	2.8	53
116	Binding of heavy metal ions in aggregates of microbial cells, EPS and biogenic iron minerals measured in-situ using metal- and glycoconjugates-specific fluorophores. *Geochimica Et Cosmochimica Acta*, **2016**, 180, 66-96	5.5	52
115	3D finite element model of biofilm detachment using real biofilm structures from CLSM data. *Biotechnology and Bioengineering*, **2009**, 103, 177-86	4.9	51
114	A flow-lane incubator for studying freshwater and marine phototrophic biofilms. *Journal of Microbiological Methods*, **2007**, 70, 336-45	2.8	51
113	The acid soluble extracellular polymeric substance of aerobic granular sludge dominated by Defluviicoccus sp. *Water Research*, **2017**, 122, 148-158	12.5	47
112	Biofouling, metal sorption and aggregation are related to sinking of microplastics in a stratified reservoir. *Water Research*, **2020**, 176, 115748	12.5	46
111	Insights into the structure and metabolic function of microbes that shape pelagic iron-rich aggregates ("iron snow"). *Applied and Environmental Microbiology*, **2013**, 79, 4272-81	4.8	46
110	Modelling the structure and function of extracellular polymeric substances in biofilms with new numerical techniques. *Water Science and Technology*, **2001**, 43, 121-127	2.2	46

109	Aerated treatment pond technology with biofilm promoting mats for the bioremediation of benzene, MTBE and ammonium contaminated groundwater. *Water Research*, **2010**, 44, 1785-96	12.5	45
108	In situ detection of freshwater fungi in an alpine stream by new taxon-specific fluorescence in situ hybridization probes. *Applied and Environmental Microbiology*, **2008**, 74, 6427-36	4.8	44
107	Interaction between biofilm development, structure and detachment in rotating annular reactors. *Bioprocess and Biosystems Engineering*, **2008**, 31, 619-29	3.7	44
106	Structural and functional responses of river biofilm communities to the nonsteroidal anti-inflammatory diclofenac. *Environmental Toxicology and Chemistry*, **2007**, 26, 573-82	3.8	42
105	Microbial "footprints" and the general ability of microorganisms to label interfaces. *Canadian Journal of Microbiology*, **1992**, 38, 1005-1008	3.2	42
104	Quality of dissolved organic matter affects planktonic but not biofilm bacterial production in streams. *Science of the Total Environment*, **2015**, 506-507, 353-60	10.2	41
103	The composition and compression of biofilms developed on ultrafiltration membranes determine hydraulic biofilm resistance. *Water Research*, **2016**, 102, 63-72	12.5	41
102	Benzene and sulfide removal from groundwater treated in a microbial fuel cell. *Biotechnology and Bioengineering*, **2013**, 110, 3104-13	4.9	41
101	Microflora on explanted silicone rubber voice prostheses: taxonomy, hydrophobicity and electrophoretic mobility. *Journal of Applied Bacteriology*, **1994**, 76, 521-8		41
100	Biosurfactant production by thermophilic dairy streptococci. *Applied Microbiology and Biotechnology*, **1994**, 41, 4-7	5.7	41
99	Effective diffusivities and mass fluxes in fungal biopellets. *Biotechnology and Bioengineering*, **2009**, 103, 1202-13	4.9	40
98	Characterization of the microbial community of lotic organic aggregates ('river snow') in the Elbe River of Germany by cultivation and molecular methods. *FEMS Microbiology Ecology*, **2000**, 33, 157-170	4.3	40
97	Use of lectins to in situ visualize glycoconjugates of extracellular polymeric substances in acidophilic archaeal biofilms. *Microbial Biotechnology*, **2015**, 8, 448-61	6.3	37
96	Enrichment of anaerobic benzene-degrading microorganisms by in situ microcosms. *FEMS Microbiology Ecology*, **2008**, 63, 94-106	4.3	37
95	Colonization and biofilm formation of the extremely acidophilic archaeon Ferroplasma acidiphilum. *Hydrometallurgy*, **2014**, 150, 245-252	4	36
94	An amphiphilic polysaccharide from an adhesiveRhodococcusstrain. *FEMS Microbiology Letters*, **1988**, 49, 389-392	2.9	36
93	Community structure and photosynthetic activity of epilithon from a highly acidic (pH Extremophiles, **2004**, 8, 463-73	3	35
92	Arsenic-rich acid mine water with extreme arsenic concentration: mineralogy, geochemistry, microbiology, and environmental implications. *Environmental Science & Technology*, **2014**, 48, 13685-93	10.3	34

91	Mapping glycoconjugate-mediated interactions of marine Bacteroidetes with diatoms. *Systematic and Applied Microbiology*, **2013**, 36, 417-25	4.2	33
90	Detection and quantification of a mycorrhization helper bacterium and a mycorrhizal fungus in plant-soil microcosms at different levels of complexity. *BMC Microbiology*, **2013**, 13, 205	4.5	32
89	Characterization of pH dependent Mn(II) oxidation strategies and formation of a bixbyite-like phase by Mesorhizobium australicum T-G1. *Frontiers in Microbiology*, **2015**, 6, 734	5.7	32
88	Physiological adaptation of a nitrate-storing Beggiatoa sp. to diel cycling in a phototrophic hypersaline mat. *Applied and Environmental Microbiology*, **2007**, 73, 7013-22	4.8	31
87	Online assessment of biofilm development, sloughing and forced detachment in tube reactor by means of magnetic resonance microscopy. *Biotechnology and Bioengineering*, **2010**, 107, 172-81	4.9	30
86	Harvesting electricity from benzene and ammonium-contaminated groundwater using a microbial fuel cell with an aerated cathode. *RSC Advances*, **2015**, 5, 5321-5330	3.7	29
85	Fluorescence Lectin Bar-Coding of Glycoconjugates in the Extracellular Matrix of Biofilm and Bioaggregate Forming Microorganisms. *Microorganisms*, **2017**, 5,	4.9	28
84	An endolithic microbial community in dolomite rock in central Switzerland: characterization by reflection spectroscopy, pigment analyses, scanning electron microscopy, and laser scanning microscopy. *Microbial Ecology*, **2006**, 51, 353-64	4.4	28
83	Characterization of adhesion threads of Deinococcus geothermalis as type IV pili. *Journal of Bacteriology*, **2006**, 188, 7016-21	3.5	28
82	Inhibition of lotic biofilms by Diclofenac. *Applied Microbiology and Biotechnology*, **2002**, 59, 488-92	5.7	28
81	Aerobic granular sludge contains Hyaluronic acid-like and sulfated glycosaminoglycans-like polymers. *Water Research*, **2020**, 169, 115291	12.5	28
80	Visualization and analysis of EPS glycoconjugates of the thermoacidophilic archaeon Sulfolobus metallicus. *Applied Microbiology and Biotechnology*, **2015**, 99, 7343-56	5.7	27
79	In situ detection of bacteria in calcified biofilms using FISH and CARD-FISH. *Journal of Microbiological Methods*, **2008**, 75, 103-8	2.8	27
78	The role of hydrodynamics in shaping the composition and architecture of epilithic biofilms in fluvial ecosystems. *Water Research*, **2017**, 127, 211-222	12.5	26
77	Biofilm dynamics and EPS production of a thermoacidophilic bioleaching archaeon. *New Biotechnology*, **2019**, 51, 21-30	6.4	26
76	Investigation of microbial biofilm structure by laser scanning microscopy. *Advances in Biochemical Engineering/Biotechnology*, **2014**, 146, 1-51	1.7	26
75	Sloughing and limited substrate conditions trigger filamentous growth in heterotrophic biofilmsMeasurements in flow-through tube reactor. *Chemical Engineering Science*, **2009**, 64, 2723-2732	4.4	26
74	Fluorescence in situ Hybridization of Freshwater Fungi. *International Review of Hydrobiology*, **2001**, 86, 371-381	2.3	26

73	Pelagic boundary conditions affect the biological formation of iron-rich particles (iron snow) and their microbial communities. *Limnology and Oceanography*, **2011**, 56, 1386-1398	4.8	25
72	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	8.2	25
71	Land-based salmon aquacultures change the quality and bacterial degradation of riverine dissolved organic matter. *Scientific Reports*, **2017**, 7, 43739	4.9	24
70	Chip-calorimetric monitoring of biofilm eradication with antibiotics provides mechanistic information. *International Journal of Medical Microbiology*, **2013**, 303, 158-65	3.7	24
69	Advanced techniques for in situ analysis of the biofilm matrix (structure, composition, dynamics) by means of laser scanning microscopy. *Methods in Molecular Biology*, **2014**, 1147, 43-64	1.4	23
68	In Situ Characterization of Extracellular Polymeric Substances (EPS) in Biofilm Systems **1999**, 21-47		22
67	Grazing resistance of bacterial biofilms: a matter of predators' feeding trait. *FEMS Microbiology Ecology*, **2017**, 93,	4.3	21
66	Architecture of Deinococcus geothermalis biofilms on glass and steel: a lectin study. *Environmental Microbiology*, **2008**, 10, 1752-9	5.2	21
65	Dominance of 'Gallionella capsiferriformans' and heavy metal association with Gallionella-like stalks in metal-rich pH 6 mine water discharge. *Geobiology*, **2016**, 14, 68-90	4.3	21
64	Decorating the Anammox House: Sialic Acids and Sulfated Glycosaminoglycans in the Extracellular Polymeric Substances of Anammox Granular Sludge. *Environmental Science & Technology*, **2020**, 54, 5218-5226	10.3	20
63	Performance and microbial structure of a nitrifying fluidized-bed reactor. *Water Research*, **2000**, 34, 311-319	12.9	20
62	The Perfect Slime: Microbial Extracellular Polymeric Substances (EPS). *Water Intelligence Online*, **2016**, 15, 9781780407425-9781780407425		20
61	Sialic acids in the extracellular polymeric substances of seawater-adapted aerobic granular sludge. *Water Research*, **2019**, 155, 343-351	12.5	20
60	Imaging and quantifying virus fluorescence signals on aquatic aggregates: a new method and its implication for aquatic microbial ecology. *FEMS Microbiology Ecology*, **2009**, 68, 372-80	4.3	19
59	Plastic Alters Biofilm Quality as Food Resource of the Freshwater Gastropod Radix balthica. *Environmental Science & Technology*, **2018**, 52, 11387-11393	10.3	19
58	Microbial megacities fueled by methane oxidation in a mineral spring cave. *ISME Journal*, **2018**, 12, 87-100	11.9	18
57	One-photon versus Two-photon Laser Scanning Mic roscopy and Digital Image Analysis of Microbial Biofilms. *Methods in Microbiology*, **2004**, 34, 89-136	2.8	18
56	Insight Into Interactions of Thermoacidophilic Archaea With Elemental Sulfur: Biofilm Dynamics and EPS Analysis. *Frontiers in Microbiology*, **2019**, 10, 896	5.7	17

55	EPS Glycoconjugate Profiles Shift as Adaptive Response in Anaerobic Microbial Granulation at High Salinity. *Frontiers in Microbiology*, **2018**, 9, 1423	5.7	17
54	Microscale Analyses of the Formation and Nature of Microbial Biofilm Communities in River Systems. *Reviews in Environmental Science and Biotechnology*, **2003**, 2, 85-97	13.9	17
53	Structure and composition of aggregates in two large European rivers, based on confocal laser scanning microscopy and image and statistical analyses. *Applied and Environmental Microbiology*, **2009**, 75, 5952-62	4.8	16
52	Application of two component biodegradable carriers in a particle-fixed biofilm airlift suspension reactor: development and structure of biofilms. *Bioprocess and Biosystems Engineering*, **2009**, 32, 31-9	3.7	16
51	Morphology of filamentous fungi: linking cellular biology to process engineering using Aspergillus niger. *Advances in Biochemical Engineering/Biotechnology*, **2010**, 121, 1-21	1.7	15
50	The biofilm matrix of Campylobacter jejuni determined by fluorescence lectin-binding analysis. *Biofouling*, **2016**, 32, 597-608	3.3	15
49	Biofilms facilitate cheating and social exploitation of β-lactam resistance in. *Npj Biofilms and Microbiomes*, **2019**, 5, 36	8.2	15
48	A chip-calorimetric approach to the analysis of Ag nanoparticle caused inhibition and inactivation of beads-grown bacterial biofilms. *Journal of Microbiological Methods*, **2013**, 95, 129-37	2.8	14
47	Chip-calorimetry provides real time insights into the inactivation of biofilms by predatory bacteria. *Biofouling*, **2012**, 28, 351-62	3.3	14
46	Biofilm Development in Time on a Silicone Voice Prosthesis—A Case Study. *Microbial Ecology in Health and Disease*, **1994**, 7, 27-33		14
45	In situ evidence for metabolic and chemical microdomains in the structured polymer matrix of bacterial microcolonies. *FEMS Microbiology Ecology*, **2016**, 92,	4.3	13
44	Encrustations on ureteral stents from patients without urinary tract infection reveal distinct urotypes and a low bacterial load. *Microbiome*, **2019**, 7, 60	16.6	12
43	Extracellular polymeric substances in microbial biofilms **2010**, 733-758		12
42	Two-Photon Imaging for Studying the Microbial Ecology of Biofilm Systems. *Microbes and Environments*, **2004**, 19, 1-6	2.6	12
41	Interaction of cyanobacteria with calcium facilitates the sedimentation of microplastics in a eutrophic reservoir. *Water Research*, **2021**, 189, 116582	12.5	12
40	Iron encrustations on filamentous algae colonized by <i>Gallionella</i>-related bacteria in a metal-polluted freshwater stream. *Biogeosciences*, **2015**, 12, 5277-5289	4.6	10
39	Vacuolated Beggiatoa-like filaments from different hypersaline environments form a novel genus. *Environmental Microbiology*, **2011**, 13, 3194-205	5.2	10
38	In situ activity of suspended and immobilized microbial communities as measured by fluorescence lifetime imaging. *Applied and Environmental Microbiology*, **2008**, 74, 294-9	4.8	10

37	Schwertmannite formation at cell junctions by a new filament-forming Fe(II)-oxidizing isolate affiliated with the novel genus Acidithrix. *Microbiology (United Kingdom)*, **2016**, 162, 62-71	2.9	10
36	Biofilm formation and interspecies interactions in mixed cultures of thermo-acidophilic archaea Acidianus spp. and Sulfolobus metallicus. *Research in Microbiology*, **2016**, 167, 604-12	4	10
35	Adaptation of microbial communities in soil contaminated with polychlorinated biphenyls, leading to the transformation of more highly chlorinated congeners in biofilm communities. *Biofilms*, **2006**, 3, 37-46		9
34	Visualizing the dental biofilm matrix by means of fluorescence lectin-binding analysis. *Journal of Oral Microbiology*, **2017**, 9, 1345581	6.3	8
33	Extremophile microbiomes in acidic and hypersaline river sediments of Western Australia. *Environmental Microbiology Reports*, **2016**, 8, 58-67	3.7	8
32	The Biofilm Lifestyle of Acidophilic Metal/Sulfur-Oxidizing Microorganisms. *Grand Challenges in Biology and Biotechnology*, **2016**, 177-213	2.4	8
31	Protistan predation interferes with bacterial long-term adaptation to substrate restriction by selecting for defence morphotypes. *Journal of Evolutionary Biology*, **2016**, 29, 2297-2310	2.3	7
30	Chip-calorimetric monitoring of biofilm eradication with bacteriophages reveals an unexpected infection-related heat profile. *Journal of Thermal Analysis and Calorimetry*, **2014**, 115, 2203-2210	4.1	7
29	Dissolution of calcite in the twilight zone: bacterial control of dissolution of sinking planktonic carbonates is unlikely. *PLoS ONE*, **2011**, 6, e26404	3.7	7
28	Laser Scanning Microscopy for Microbial Flocs and Particles469-505		7
27	Flatworm mucus as the base of a food web. *BMC Ecology*, **2019**, 19, 15	2.7	5
26	Thermodesulfobium sp. strain 3baa, an acidophilic sulfate reducing bacterium forming biofilms triggered by mineral precipitation. *Environmental Microbiology*, **2018**, 20, 3717-3731	5.2	5
25	Aquatic Biofilms: Development, Cultivation, Analyses, and Applications **2015**, 4.2.3-1-4.2.3-33		5
24	Candidatus Sulfurimonas marisnigri sp. nov. and Candidatus Sulfurimonas baltica sp. nov., thiotrophic manganese oxide reducing chemolithoautotrophs of the class Campylobacteria isolated from the pelagic redoxclines of the Black Sea and the Baltic Sea. *Systematic and Applied Microbiology*, **2021**, 44, 126155	4.2	5
23	Osteopontin adsorption to Gram-positive cells reduces adhesion forces and attachment to surfaces under flow. *Journal of Oral Microbiology*, **2017**, 9, 1379826	6.3	4
22	Biofilms Associated with Health **1992**, 21-34		4
21	A whole cell bioreporter approach to assess transport and bioavailability of organic contaminants in water unsaturated systems. *Journal of Visualized Experiments*, **2014**,	1.6	3
20	Confocal Microscopy of Biofilms Spatiotemporal Approaches **2006**, 870-888		3

19	Development and Architecture of Complex Environmental Biofilms **2003**, 29-45		3
18	Visualization of the Sorption of Nickel within Exopolymer Microdomains of Bacterial Microcolonies Using Confocal and Scanning Electron Microscopy. *Microbes and Environments*, **2019**, 34, 76-82	2.6	2
17	Initial Attachment and Biofilm Formation of a Novel Crenarchaeote on Mineral Sulfides. *Advanced Materials Research*, **2015**, 1130, 127-130	0.5	2
16	Interspecies Interactions of Metal-Oxidizing Thermo-Acidophilic Archaea Acidianus and Sulfolobus. *Advanced Materials Research*, **2015**, 1130, 105-108	0.5	2
15	Photolysis and biodegradation of selected resin acids in River Saale water, Germany. *Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering*, **2003**, 38, 2727-47	2.3	2
14	Biofilm diversity, structure and matrix seasonality in a full-scale cooling tower. *Biofouling*, **2018**, 34, 1093-1109	3.3	2
13	Multi-Parameter Laser Imaging Reveals Complex Microscale Biofilm Matrix in a Thick (4,000 µm) Aerobic Methanol Oxidizing Community. *Frontiers in Microbiology*, **2018**, 9, 2186	5.7	2
12	A Test Device for Microalgal Antifouling Using Fluctuating pH Values on Conductive Paints. *Water (Switzerland)*, **2020**, 12, 1597	3	1
11	Mikrobielle Werkstoffzerstörung Schadensfälle und Gegenmaßnahmen für Kunst- und Naturstoffe. Mikrobiologische Zerstörung von Silikon-Elastomeren. *Materials and Corrosion - Werkstoffe Und Korrosion*, **1994**, 45, 170-171	1.6	1
10	Laser Scanning Microscopy34-53		1
9	Environmental conditions affect the food quality of plastic associated biofilms for the benthic grazer Physa fontinalis. *Science of the Total Environment*, **2021**, 816, 151663	10.2	1
8	Laser Scanning Microscopy in Combination with Fluorescence Techniques for Biofilm Study		1
7	Examination of Microbial Communities on Hydrocarbons by Means of Laser Scanning Microscopy **2010**, 4073-4084		1
6	Biofilm padsEin easy method to manufacture artificial biofilms embedded in an alginate polymer matrix. *Limnology and Oceanography: Methods*, **2020**, 18, 1-7	2.6	1
5	Unraveling the critical growth factors for stable cultivation of (nano-sized) Micrarchaeota		1
4	Production of nonulosonic acids in the extracellular polymeric substances of "Candidatus Accumulibacter phosphatis". *Applied Microbiology and Biotechnology*, **2021**, 105, 3327-3338	5.7	0
3	The importance of biofilm formation for cultivation of a Micrarchaeon and its interactions with its Thermoplasmatales host.. *Nature Communications*, **2022**, 13, 1735	17.4	0
2	Bildgebende Verfahren zur Dar stellung von Biofilmen und Bioaggregaten. *BioSpektrum*, **2015**, 21, 715-717	0.7	

1	Protocol for Laser Scanning Microscopy of Microorganisms on Hydrocarbons. *Springer Protocols*, **2014**, 29-47	0.3