

Thomas R Neu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 importance of biofilm formation for cultivation of a Micrarchaeon and its interactions with its Thermoplasmatales host.. <i>Nature Communications</i> , 2022 , 13, 1735	17.4	0
161	Environmental conditions affect the food quality of plastic associated biofilms for the benthic grazer <i>Physa fontinalis</i> . <i>Science of the Total Environment</i> , 2021 , 816, 151663	10.2	1
160	Production of nonulosonic acids in the extracellular polymeric substances of "Candidatus <i>Accumulibacter phosphatis</i> ". <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 3327-3338	5.7	0
159	<i>Candidatus Sulfurimonas marisnigri</i> sp. nov. and <i>Candidatus Sulfurimonas baltica</i> sp. nov., thiotrophic manganese oxide reducing chemolithoautotrophs of the class <i>Campylobacteria</i> isolated from the pelagic redoxclines of the Black Sea and the Baltic Sea. <i>Systematic and Applied Microbiology</i> , 2021 , 44, 126155	4.2	5
158	Interaction of cyanobacteria with calcium facilitates the sedimentation of microplastics in a eutrophic reservoir. <i>Water Research</i> , 2021 , 189, 116582	12.5	12
157	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	8.2	25
156	A Test Device for Microalgal Antifouling Using Fluctuating pH Values on Conductive Paints. <i>Water (Switzerland)</i> , 2020 , 12, 1597	3	1
155	Biofouling, metal sorption and aggregation are related to sinking of microplastics in a stratified reservoir. <i>Water Research</i> , 2020 , 176, 115748	12.5	46
154	Decorating the Anammox House: Sialic Acids and Sulfated Glycosaminoglycans in the Extracellular Polymeric Substances of Anammox Granular Sludge. <i>Environmental Science & Technology</i> , 2020 , 54, 5218-5226	10.3	20
153	Aerobic granular sludge contains Hyaluronic acid-like and sulfated glycosaminoglycans-like polymers. <i>Water Research</i> , 2020 , 169, 115291	12.5	28
152	Biofilm pads: An easy method to manufacture artificial biofilms embedded in an alginate polymer matrix. <i>Limnology and Oceanography: Methods</i> , 2020 , 18, 1-7	2.6	1
151	Insight Into Interactions of Thermoacidophilic Archaea With Elemental Sulfur: Biofilm Dynamics and EPS Analysis. <i>Frontiers in Microbiology</i> , 2019 , 10, 896	5.7	17
150	Visualization of the Sorption of Nickel within Exopolymer Microdomains of Bacterial Microcolonies Using Confocal and Scanning Electron Microscopy. <i>Microbes and Environments</i> , 2019 , 34, 76-82	2.6	2
149	Encrustations on ureteral stents from patients without urinary tract infection reveal distinct urotypes and a low bacterial load. <i>Microbiome</i> , 2019 , 7, 60	16.6	12
148	Flatworm mucus as the base of a food web. <i>BMC Ecology</i> , 2019 , 19, 15	2.7	5
147	Biofilm dynamics and EPS production of a thermoacidophilic bioleaching archaeon. <i>New Biotechnology</i> , 2019 , 51, 21-30	6.4	26
146	Sialic acids in the extracellular polymeric substances of seawater-adapted aerobic granular sludge. <i>Water Research</i> , 2019 , 155, 343-351	12.5	20

145	Biofilms facilitate cheating and social exploitation of β -lactam resistance in. <i>Npj Biofilms and Microbiomes</i> , 2019 , 5, 36	8.2	15
144	Extracellular polymeric substances of biofilms: Suffering from an identity crisis. <i>Water Research</i> , 2019 , 151, 1-7	12.5	138
143	Microbial megacities fueled by methane oxidation in a mineral spring cave. <i>ISME Journal</i> , 2018 , 12, 87-100	11.9	18
142	EPS Glycoconjugate Profiles Shift as Adaptive Response in Anaerobic Microbial Granulation at High Salinity. <i>Frontiers in Microbiology</i> , 2018 , 9, 1423	5.7	17
141	Thermodesulfobium sp. strain 3baa, an acidophilic sulfate reducing bacterium forming biofilms triggered by mineral precipitation. <i>Environmental Microbiology</i> , 2018 , 20, 3717-3731	5.2	5
140	Biofilm diversity, structure and matrix seasonality in a full-scale cooling tower. <i>Biofouling</i> , 2018 , 34, 1093-1109	3.1	2
139	Multi-Parameter Laser Imaging Reveals Complex Microscale Biofilm Matrix in a Thick (4,000 h) Aerobic Methanol Oxidizing Community. <i>Frontiers in Microbiology</i> , 2018 , 9, 2186	5.7	2
138	Identification of Glycoproteins Isolated from Extracellular Polymeric Substances of Full-Scale Anammox Granular Sludge. <i>Environmental Science & Technology</i> , 2018 , 52, 13127-13135	10.3	54
137	Plastic Alters Biofilm Quality as Food Resource of the Freshwater Gastropod <i>Radix balthica</i> . <i>Environmental Science & Technology</i> , 2018 , 52, 11387-11393	10.3	19
136	Land-based salmon aquacultures change the quality and bacterial degradation of riverine dissolved organic matter. <i>Scientific Reports</i> , 2017 , 7, 43739	4.9	24
135	The acid soluble extracellular polymeric substance of aerobic granular sludge dominated by <i>Defluviicoccus</i> sp. <i>Water Research</i> , 2017 , 122, 148-158	12.5	47
134	The role of hydrodynamics in shaping the composition and architecture of epilithic biofilms in fluvial ecosystems. <i>Water Research</i> , 2017 , 127, 211-222	12.5	26
133	Visualizing the dental biofilm matrix by means of fluorescence lectin-binding analysis. <i>Journal of Oral Microbiology</i> , 2017 , 9, 1345581	6.3	8
132	Osteopontin adsorption to Gram-positive cells reduces adhesion forces and attachment to surfaces under flow. <i>Journal of Oral Microbiology</i> , 2017 , 9, 1379826	6.3	4
131	Grazing resistance of bacterial biofilms: a matter of predators' feeding trait. <i>FEMS Microbiology Ecology</i> , 2017 , 93,	4.3	21
130	Fluorescence Lectin Bar-Coding of Glycoconjugates in the Extracellular Matrix of Biofilm and Bioaggregate Forming Microorganisms. <i>Microorganisms</i> , 2017 , 5,	4.9	28
129	In situ evidence for metabolic and chemical microdomains in the structured polymer matrix of bacterial microcolonies. <i>FEMS Microbiology Ecology</i> , 2016 , 92,	4.3	13
128	Protistan predation interferes with bacterial long-term adaptation to substrate restriction by selecting for defence morphotypes. <i>Journal of Evolutionary Biology</i> , 2016 , 29, 2297-2310	2.3	7

127	The composition and compression of biofilms developed on ultrafiltration membranes determine hydraulic biofilm resistance. <i>Water Research</i> , 2016 , 102, 63-72	12.5	41
126	Schwertmannite formation at cell junctions by a new filament-forming Fe(II)-oxidizing isolate affiliated with the novel genus <i>Acidithrix</i> . <i>Microbiology (United Kingdom)</i> , 2016 , 162, 62-71	2.9	10
125	Biofilm formation and interspecies interactions in mixed cultures of thermo-acidophilic archaea <i>Acidianus</i> spp. and <i>Sulfolobus metallicus</i> . <i>Research in Microbiology</i> , 2016 , 167, 604-12	4	10
124	The Perfect Slime: Microbial Extracellular Polymeric Substances (EPS). <i>Water Intelligence Online</i> , 2016 , 15, 9781780407425-9781780407425		20
123	Dominance of 'Gallionella capsiferiformans' and heavy metal association with Gallionella-like stalks in metal-rich pH 6 mine water discharge. <i>Geobiology</i> , 2016 , 14, 68-90	4.3	21
122	Extremophile microbiomes in acidic and hypersaline river sediments of Western Australia. <i>Environmental Microbiology Reports</i> , 2016 , 8, 58-67	3.7	8
121	The biofilm matrix of <i>Campylobacter jejuni</i> determined by fluorescence lectin-binding analysis. <i>Biofouling</i> , 2016 , 32, 597-608	3.3	15
120	The Biofilm Lifestyle of Acidophilic Metal/Sulfur-Oxidizing Microorganisms. <i>Grand Challenges in Biology and Biotechnology</i> , 2016 , 177-213	2.4	8
119	Binding of heavy metal ions in aggregates of microbial cells, EPS and biogenic iron minerals measured in-situ using metal- and glycoconjugates-specific fluorophores. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 180, 66-96	5.5	52
118	Quality of dissolved organic matter affects planktonic but not biofilm bacterial production in streams. <i>Science of the Total Environment</i> , 2015 , 506-507, 353-60	10.2	41
117	Visualization and analysis of EPS glycoconjugates of the thermoacidophilic archaeon <i>Sulfolobus metallicus</i> . <i>Applied Microbiology and Biotechnology</i> , 2015 , 99, 7343-56	5.7	27
116	Bildgebende Verfahren zur Darstellung von Biofilmen und Bioaggregaten. <i>BioSpektrum</i> , 2015 , 21, 715-717		
115	Use of lectins to in situ visualize glycoconjugates of extracellular polymeric substances in acidophilic archaeal biofilms. <i>Microbial Biotechnology</i> , 2015 , 8, 448-61	6.3	37
114	Initial Attachment and Biofilm Formation of a Novel Crenarchaeote on Mineral Sulfides. <i>Advanced Materials Research</i> , 2015 , 1130, 127-130	0.5	2
113	Aquatic Biofilms: Development, Cultivation, Analyses, and Applications 2015 , 4.2.3-1-4.2.3-33		5
112	Iron encrustations on filamentous algae colonized by <i>Gallionella</i>-related bacteria in a metal-polluted freshwater stream. <i>Biogeosciences</i> , 2015 , 12, 5277-5289	4.6	10
111	Characterization of pH dependent Mn(II) oxidation strategies and formation of a bixbyite-like phase by <i>Mesorhizobium australicum</i> T-G1. <i>Frontiers in Microbiology</i> , 2015 , 6, 734	5.7	32
110	Interspecies Interactions of Metal-Oxidizing Thermo-Acidophilic Archaea <i>Acidianus</i> and <i>Sulfolobus</i> . <i>Advanced Materials Research</i> , 2015 , 1130, 105-108	0.5	2

109	Characterisation of algal organic matter produced by bloom-forming marine and freshwater algae. <i>Water Research</i> , 2015 , 73, 216-30	12.5	141
108	Innovative techniques, sensors, and approaches for imaging biofilms at different scales. <i>Trends in Microbiology</i> , 2015 , 23, 233-42	12.4	69
107	Harvesting electricity from benzene and ammonium-contaminated groundwater using a microbial fuel cell with an aerated cathode. <i>RSC Advances</i> , 2015 , 5, 5321-5330	3.7	29
106	Chip-calorimetric monitoring of biofilm eradication with bacteriophages reveals an unexpected infection-related heat profile. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 115, 2203-2210	4.1	7
105	Arsenic-rich acid mine water with extreme arsenic concentration: mineralogy, geochemistry, microbiology, and environmental implications. <i>Environmental Science & Technology</i> , 2014 , 48, 13685-93	10.3	34
104	Colonization and biofilm formation of the extremely acidophilic archaeon <i>Ferroplasma acidiphilum</i> . <i>Hydrometallurgy</i> , 2014 , 150, 245-252	4	36
103	Investigation of microbial biofilm structure by laser scanning microscopy. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2014 , 146, 1-51	1.7	26
102	A whole cell bioreporter approach to assess transport and bioavailability of organic contaminants in water unsaturated systems. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	3
101	Protocol for Laser Scanning Microscopy of Microorganisms on Hydrocarbons. <i>Springer Protocols</i> , 2014 , 29-47	0.3	
100	Advanced techniques for in situ analysis of the biofilm matrix (structure, composition, dynamics) by means of laser scanning microscopy. <i>Methods in Molecular Biology</i> , 2014 , 1147, 43-64	1.4	23
99	Electron transfer and biofilm formation of <i>Shewanella putrefaciens</i> as function of anode potential. <i>Bioelectrochemistry</i> , 2013 , 93, 23-9	5.6	106
98	Impact of mycelia on the accessibility of fluorene to PAH-degrading bacteria. <i>Environmental Science & Technology</i> , 2013 , 47, 6908-15	10.3	58
97	Insights into the structure and metabolic function of microbes that shape pelagic iron-rich aggregates ("iron snow"). <i>Applied and Environmental Microbiology</i> , 2013 , 79, 4272-81	4.8	46
96	Detection and quantification of a mycorrhization helper bacterium and a mycorrhizal fungus in plant-soil microcosms at different levels of complexity. <i>BMC Microbiology</i> , 2013 , 13, 205	4.5	32
95	A chip-calorimetric approach to the analysis of Ag nanoparticle caused inhibition and inactivation of beads-grown bacterial biofilms. <i>Journal of Microbiological Methods</i> , 2013 , 95, 129-37	2.8	14
94	Chip-calorimetric monitoring of biofilm eradication with antibiotics provides mechanistic information. <i>International Journal of Medical Microbiology</i> , 2013 , 303, 158-65	3.7	24
93	Mapping glycoconjugate-mediated interactions of marine Bacteroidetes with diatoms. <i>Systematic and Applied Microbiology</i> , 2013 , 36, 417-25	4.2	33
92	Extracellular DNA in adhesion and biofilm formation of four environmental isolates: a quantitative study. <i>FEMS Microbiology Ecology</i> , 2013 , 86, 394-403	4.3	62

91	Assessment of bacterial and structural dynamics in aerobic granular biofilms. <i>Frontiers in Microbiology</i> , 2013 , 4, 175	5.7	73
90	Benzene and sulfide removal from groundwater treated in a microbial fuel cell. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 3104-13	4.9	41
89	Evidence for methane production by saprotrophic fungi. <i>Nature Communications</i> , 2012 , 3, 1046	17.4	117
88	Chip-calorimetry provides real time insights into the inactivation of biofilms by predatory bacteria. <i>Biofouling</i> , 2012 , 28, 351-62	3.3	14
87	Calcite biomineralization by bacterial isolates from the recently discovered pristine karstic herrenberg cave. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 1157-67	4.8	85
86	Dissolution of calcite in the twilight zone: bacterial control of dissolution of sinking planktonic carbonates is unlikely. <i>PLoS ONE</i> , 2011 , 6, e26404	3.7	7
85	Vacuolated Beggiatoa-like filaments from different hypersaline environments form a novel genus. <i>Environmental Microbiology</i> , 2011 , 13, 3194-205	5.2	10
84	Characterization of glycoconjugates of extracellular polymeric substances in tufa-associated biofilms by using fluorescence lectin-binding analysis. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 505-16	4.8	72
83	Pelagic boundary conditions affect the biological formation of iron-rich particles (iron snow) and their microbial communities. <i>Limnology and Oceanography</i> , 2011 , 56, 1386-1398	4.8	25
82	Enrichment and characterization of a sulfate-reducing toluene-degrading microbial consortium by combining in situ microcosms and stable isotope probing techniques. <i>FEMS Microbiology Ecology</i> , 2010 , 71, 237-46	4.3	59
81	Advanced imaging techniques for assessment of structure, composition and function in biofilm systems. <i>FEMS Microbiology Ecology</i> , 2010 , 72, 1-21	4.3	160
80	Extracellular polymeric substances in microbial biofilms 2010 , 733-758		12
79	Morphology of filamentous fungi: linking cellular biology to process engineering using <i>Aspergillus niger</i> . <i>Advances in Biochemical Engineering/Biotechnology</i> , 2010 , 121, 1-21	1.7	15
78	Aerated treatment pond technology with biofilm promoting mats for the bioremediation of benzene, MTBE and ammonium contaminated groundwater. <i>Water Research</i> , 2010 , 44, 1785-96	12.5	45
77	Fungal mycelia allow chemotactic dispersal of polycyclic aromatic hydrocarbon-degrading bacteria in water-unsaturated systems. <i>Environmental Microbiology</i> , 2010 , 12, 1391-8	5.2	92
76	Tufa-forming biofilms of German karstwater streams: microorganisms, exopolymers, hydrochemistry and calcification. <i>Geological Society Special Publication</i> , 2010 , 336, 83-118	1.7	60
75	Online assessment of biofilm development, sloughing and forced detachment in tube reactor by means of magnetic resonance microscopy. <i>Biotechnology and Bioengineering</i> , 2010 , 107, 172-81	4.9	30
74	Examination of Microbial Communities on Hydrocarbons by Means of Laser Scanning Microscopy 2010 , 4073-4084		1

73	Structure and composition of aggregates in two large European rivers, based on confocal laser scanning microscopy and image and statistical analyses. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 5952-62	4.8	16
72	3D finite element model of biofilm detachment using real biofilm structures from CLSM data. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 177-86	4.9	51
71	Effective diffusivities and mass fluxes in fungal biopellets. <i>Biotechnology and Bioengineering</i> , 2009 , 103, 1202-13	4.9	40
70	Application of two component biodegradable carriers in a particle-fixed biofilm airlift suspension reactor: development and structure of biofilms. <i>Bioprocess and Biosystems Engineering</i> , 2009 , 32, 31-9	3.7	16
69	Sloughing and limited substrate conditions trigger filamentous growth in heterotrophic biofilms. Measurements in flow-through tube reactor. <i>Chemical Engineering Science</i> , 2009 , 64, 2723-2732	4.4	26
68	Imaging and quantifying virus fluorescence signals on aquatic aggregates: a new method and its implication for aquatic microbial ecology. <i>FEMS Microbiology Ecology</i> , 2009 , 68, 372-80	4.3	19
67	Architecture of <i>Deinococcus geothermalis</i> biofilms on glass and steel: a lectin study. <i>Environmental Microbiology</i> , 2008 , 10, 1752-9	5.2	21
66	Miniaturized calorimetry - a new method for real-time biofilm activity analysis. <i>Journal of Microbiological Methods</i> , 2008 , 74, 74-81	2.8	53
65	In situ detection of bacteria in calcified biofilms using FISH and CARD-FISH. <i>Journal of Microbiological Methods</i> , 2008 , 75, 103-8	2.8	27
64	In situ detection of freshwater fungi in an alpine stream by new taxon-specific fluorescence in situ hybridization probes. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 6427-36	4.8	44
63	In situ activity of suspended and immobilized microbial communities as measured by fluorescence lifetime imaging. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 294-9	4.8	10
62	Interaction between biofilm development, structure and detachment in rotating annular reactors. <i>Bioprocess and Biosystems Engineering</i> , 2008 , 31, 619-29	3.7	44
61	Enrichment of anaerobic benzene-degrading microorganisms by in situ microcosms. <i>FEMS Microbiology Ecology</i> , 2008 , 63, 94-106	4.3	37
60	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. <i>Biotechnology and Bioengineering</i> , 2007 , 98, 747-55	4.9	89
59	Structural and functional responses of river biofilm communities to the nonsteroidal anti-inflammatory diclofenac. <i>Environmental Toxicology and Chemistry</i> , 2007 , 26, 573-82	3.8	42
58	The EPS matrix: the "house of biofilm cells". <i>Journal of Bacteriology</i> , 2007 , 189, 7945-7	3.5	1067
57	Physiological adaptation of a nitrate-storing <i>Beggiatoa</i> sp. to diel cycling in a phototrophic hypersaline mat. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 7013-22	4.8	31
56	A flow-lane incubator for studying freshwater and marine phototrophic biofilms. <i>Journal of Microbiological Methods</i> , 2007 , 70, 336-45	2.8	51

55	In situ evidence for microdomains in the polymer matrix of bacterial microcolonies. <i>Canadian Journal of Microbiology</i> , 2007 , 53, 450-8	3.2	85
54	An endolithic microbial community in dolomite rock in central Switzerland: characterization by reflection spectroscopy, pigment analyses, scanning electron microscopy, and laser scanning microscopy. <i>Microbial Ecology</i> , 2006 , 51, 353-64	4.4	28
53	Adaptation of microbial communities in soil contaminated with polychlorinated biphenyls, leading to the transformation of more highly chlorinated congeners in biofilm communities. <i>Biofilms</i> , 2006 , 3, 37-46		9
52	Contribution of alginate and levan production to biofilm formation by <i>Pseudomonas syringae</i> . <i>Microbiology (United Kingdom)</i> , 2006 , 152, 2909-2918	2.9	124
51	Characterization of adhesion threads of <i>Deinococcus geothermalis</i> as type IV pili. <i>Journal of Bacteriology</i> , 2006 , 188, 7016-21	3.5	28
50	Bacterial extracellular DNA forming a defined network-like structure. <i>FEMS Microbiology Letters</i> , 2006 , 262, 31-8	2.9	126
49	Development and structure of microbial biofilms in river water studied by confocal laser scanning microscopy. <i>FEMS Microbiology Ecology</i> , 2006 , 24, 11-25	4.3	150
48	Confocal Microscopy of Biofilms [Spatiotemporal Approaches 2006 , 870-888		3
47	Oxygen profiles and biomass distribution in biopellets of <i>Aspergillus niger</i> . <i>Biotechnology and Bioengineering</i> , 2005 , 92, 614-23	4.9	72
46	Effects of selected pharmaceuticals on riverine biofilm communities. <i>Canadian Journal of Microbiology</i> , 2005 , 51, 655-69	3.2	108
45	Three stages of a biofilm community developing at the liquid-liquid interface between polychlorinated biphenyls and water. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 7301-9	4.8	54
44	Community structure and photosynthetic activity of epilithon from a highly acidic (pH Extremophiles, 2004 , 8, 463-73	3	35
43	Volumetric measurements of bacterial cells and extracellular polymeric substance glycoconjugates in biofilms. <i>Biotechnology and Bioengineering</i> , 2004 , 88, 585-92	4.9	166
42	Microscale and molecular assessment of impacts of nickel, nutrients, and oxygen level on structure and function of river biofilm communities. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 4326-39	4.8	117
41	Three-dimensional differentiation of photo-autotrophic biofilm constituents by multi-channel laser scanning microscopy (single-photon and two-photon excitation). <i>Journal of Microbiological Methods</i> , 2004 , 56, 161-72	2.8	75
40	One-photon versus Two-photon Laser Scanning Microscopy and Digital Image Analysis of Microbial Biofilms. <i>Methods in Microbiology</i> , 2004 , 34, 89-136	2.8	18
39	Two-Photon Imaging for Studying the Microbial Ecology of Biofilm Systems. <i>Microbes and Environments</i> , 2004 , 19, 1-6	2.6	12
38	Microscale Analyses of the Formation and Nature of Microbial Biofilm Communities in River Systems. <i>Reviews in Environmental Science and Biotechnology</i> , 2003 , 2, 85-97	13.9	17

37	Photolysis and biodegradation of selected resin acids in River Saale water, Germany. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2003 , 38, 2727-47	2.3	2
36	Development and Architecture of Complex Environmental Biofilms 2003 , 29-45		3
35	Microscale evaluation of the effects of grazing by invertebrates with contrasting feeding modes on river biofilm architecture and composition. <i>Microbial Ecology</i> , 2002 , 44, 199-207	4.4	76
34	Inhibition of lotic biofilms by Diclofenac. <i>Applied Microbiology and Biotechnology</i> , 2002 , 59, 488-92	5.7	28
33	Assessment of fluorochromes for two-photon laser scanning microscopy of biofilms. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 901-9	4.8	72
32	Investigation of lotic microbial aggregates by a combined technique of fluorescent in situ hybridization and lectin-binding-analysis. <i>Journal of Microbiological Methods</i> , 2002 , 49, 75-87	2.8	63
31	Fluorescence in situ Hybridization of Freshwater Fungi. <i>International Review of Hydrobiology</i> , 2001 , 86, 371-381	2.3	26
30	Assessment of lectin-binding analysis for in situ detection of glycoconjugates in biofilm systems. <i>Microbiology (United Kingdom)</i> , 2001 , 147, 299-313	2.9	215
29	Sorption and metabolism of selected herbicides in river biofilm communities. <i>Canadian Journal of Microbiology</i> , 2001 , 47, 634-41	3.2	70
28	Selective degradation of ibuprofen and clofibric acid in two model river biofilm systems. <i>Water Research</i> , 2001 , 35, 3197-205	12.5	172
27	Modelling the structure and function of extracellular polymeric substances in biofilms with new numerical techniques. <i>Water Science and Technology</i> , 2001 , 43, 121-127	2.2	46
26	Characterization of the microbial community of lotic organic aggregates ('river snow') in the Elbe River of Germany by cultivation and molecular methods. <i>FEMS Microbiology Ecology</i> , 2000 , 33, 157-170	4.3	40
25	A simple rotating annular reactor for replicated biofilm studies. <i>Journal of Microbiological Methods</i> , 2000 , 42, 215-24	2.8	66
24	Performance and microbial structure of a nitrifying fluidized-bed reactor. <i>Water Research</i> , 2000 , 34, 311-319	3.9	20
23	Phylogenetic Composition, Spatial Structure, and Dynamics of Lotic Bacterial Biofilms Investigated by Fluorescent in Situ Hybridization and Confocal Laser Scanning Microscopy. <i>Microbial Ecology</i> , 1999 , 37, 225-237	4.4	146
22	Lectin-binding analysis in biofilm systems. <i>Methods in Enzymology</i> , 1999 , 310, 145-52	1.7	84
21	Confocal laser scanning microscopy for analysis of microbial biofilms. <i>Methods in Enzymology</i> , 1999 , 310, 131-44	1.7	96
20	In Situ Characterization of Extracellular Polymeric Substances (EPS) in Biofilm Systems 1999 , 21-47		22

19	What are Bacterial Extracellular Polymeric Substances? 1999 , 1-19		171
18	Abundance and spatial organization of Gram-negative sulfate-reducing bacteria in activated sludge investigated by in situ probing with specific 16S rRNA targeted oligonucleotides. <i>FEMS Microbiology Ecology</i> , 1998 , 25, 43-61	4.3	198
17	Application of multiple parameter imaging for the quantification of algal, bacterial and exopolymer components of microbial biofilms. <i>Journal of Microbiological Methods</i> , 1998 , 32, 253-261	2.8	112
16	Significance of bacterial surface-active compounds in interaction of bacteria with interfaces.. <i>Microbiological Reviews</i> , 1996 , 60, 151-166		358
15	Significance of bacterial surface-active compounds in interaction of bacteria with interfaces. <i>Microbiological Reviews</i> , 1996 , 60, 151-66		438
14	Mikrobielle Werkstoffzerstörung, Schadensfälle und Gegenmaßnahmen für Kunst- und Naturstoffe. Mikrobiologische Zerstörung von Silikon-Elastomeren. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 1994 , 45, 170-171	1.6	1
13	Microflora on explanted silicone rubber voice prostheses: taxonomy, hydrophobicity and electrophoretic mobility. <i>Journal of Applied Bacteriology</i> , 1994 , 76, 521-8		41
12	Biosurfactant production by thermophilic dairy streptococci. <i>Applied Microbiology and Biotechnology</i> , 1994 , 41, 4-7	5.7	41
11	Biofilm Development in Time on a Silicone Voice Prosthesis A Case Study. <i>Microbial Ecology in Health and Disease</i> , 1994 , 7, 27-33		14
10	Biodeterioration of medical-grade silicone rubber used for voice prostheses: a SEM study. <i>Biomaterials</i> , 1993 , 14, 459-64	15.6	104
9	Microbial "footprints" and the general ability of microorganisms to label interfaces. <i>Canadian Journal of Microbiology</i> , 1992 , 38, 1005-1008	3.2	42
8	Biofilms Associated with Health 1992 , 21-34		4
7	Microbial Footprints A new approach to adhesive polymers. <i>Biofouling</i> , 1991 , 3, 101-112	3.3	84
6	Bacterial polymers: physicochemical aspects of their interactions at interfaces. <i>Journal of Biomaterials Applications</i> , 1990 , 5, 107-33	2.9	102
5	An amphiphilic polysaccharide from an adhesive Rhodococcus strain. <i>FEMS Microbiology Letters</i> , 1988 , 49, 389-392	2.9	36
4	Laser Scanning Microscopy 34-53		1
3	Laser Scanning Microscopy in Combination with Fluorescence Techniques for Biofilm Study		1
2	Unraveling the critical growth factors for stable cultivation of (nano-sized) Micrarchaeota		1

1	Laser Scanning Microscopy for Microbial Floccs and Particles	469-505	7
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