Thomas R Neu

List of Publications by Year
in descending order

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162 papers	11,044 citations	30070 54 h-index	36028 97 g-index
167 all docs	167 docs citations	167 times ranked	11242 citing authors

#	Article	IF	Citations
1	The EPS Matrix: The â€œHouse of Biofilm Cellsâ€• Journal of Bacteriology, 2007, 189, 7945-7947.	2.2	1,379
2	Significance of bacterial surface-active compounds in interaction of bacteria with interfaces. Microbiological Reviews, 1996, 60, 151-166.	10.1	498
3	Significance of bacterial surface-active compounds in interaction of bacteria with interfaces.. Microbiological Reviews, 1996, 60, 151-166.	10.1	367
4	What are Bacterial Extracellular Polymeric Substances?. , 1999, , 1-19.		250
5	Assessment of lectin-binding analysis for in situ detection of glycoconjugates in biofilm systems. Microbiology (United Kingdom), 2001, 147, 299-313.	1.8	248
6	Extracellular polymeric substances of biofilms: Suffering from an identity crisis. Water Research, 2019, 151, 1-7.	11.3	228
7	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.	2.7	227
8	Characterisation of algal organic matter produced by bloom-forming marine and freshwater algae. Water Research, 2015, 73, 216-230.	11.3	200
9	Volumetric measurements of bacterial cells and extracellular polymeric substance glycoconjugates in biofilms. Biotechnology and Bioengineering, 2004, 88, 585-592.	3.3	195
10	Selective degradation of ibuprofen and clofibric acid in two model river biofilm systems. Water Research, 2001, 35, 3197-3205.	11.3	191
11	Advanced imaging techniques for assessment of structure, composition and function in biofilm systems. FEMS Microbiology Ecology, 2010, 72, 1-21.	2.7	187
12	Development and structure of microbial biofilms in river water studied by confocal laser scanning microscopy. FEMS Microbiology Ecology, 2006, 24, 11-25.	2.7	186
13	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.	2.8	169
14	Evidence for methane production by saprotrophic fungi. Nature Communications, 2012, 3, 1046.	12.8	169
15	Contribution of alginate and levan production to biofilm formation by Pseudomonas syringae. Microbiology (United Kingdom), 2006, 152, 2909-2918.	1.8	158
16	Bacterial extracellular DNA forming a defined network-like structure. FEMS Microbiology Letters, 2006, 262, 31-38.	1.8	144
17	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.	1.6	135
18	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, 4326-4339.	3.1	129

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19	Effects of selected pharmaceuticals on riverine biofilm communities. Canadian Journal of Microbiology, 2005, 51, 655-669.	1.7	127
20	Assessment of bacterial and structural dynamics in aerobic granular biofilms. Frontiers in Microbiology, 2013, 4, 175.	3.5	123
21	Electron transfer and biofilm formation of Shewanella putrefaciens as function of anode potential. Bioelectrochemistry, 2013, 93, 23-29.	4.6	122
22	[9] Confocal laser scanning microscopy for analysis of microbial biofilms. Methods in Enzymology, 1999, 310, 131-144.	1.0	118
23	Fungal mycelia allow chemotactic dispersal of polycyclic aromatic hydrocarbonâ€degrading bacteria in waterâ€unsaturated systems. Environmental Microbiology, 2010, 12, 1391-1398.	3.8	117
24	Calcite Biomineralization by Bacterial Isolates from the Recently Discovered Pristine Karstic Herrenberg Cave. Applied and Environmental Microbiology, 2012, 78, 1157-1167.	3.1	112
25	Biodeterioration of medical-grade silicone rubber used for voice prostheses: a SEM study. Biomaterials, 1993, 14, 459-464.	11.4	110
26	Bacterial Polymers: Physicochemical Aspects of Their Interactions at Interfaces. Journal of Biomaterials Applications, 1990, 5, 107-133.	2.4	109
27	[10] Lectin-binding analysis in biofilm systems. Methods in Enzymology, 1999, 310, 145-152.	1.0	103
28	Microbial â€œfootprintsâ€â€”A new approach to adhesive polymers. Biofouling, 1991, 3, 101-112.	2.2	102
29	Identification of Glycoproteins Isolated from Extracellular Polymeric Substances of Full-Scale Anammox Granular Sludge. Environmental Science & Technology, 2018, 52, 13127-13135.	10.0	102
30	In situ evidence for microdomains in the polymer matrix of bacterial microcolonies. Canadian Journal of Microbiology, 2007, 53, 450-458.	1.7	99
31	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, 747-755.	3.3	98
32	Biofouling, metal sorption and aggregation are related to sinking of microplastics in a stratified reservoir. Water Research, 2020, 176, 115748.	11.3	97
33	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, 161-172.	1.6	96
34	Innovative techniques, sensors, and approaches for imaging biofilms at different scales. Trends in Microbiology, 2015, 23, 233-242.	7.7	93
35	Characterization of Glycoconjugates of Extracellular Polymeric Substances in Tufa-Associated Biofilms by Using Fluorescence Lectin-Binding Analysis. Applied and Environmental Microbiology, 2011, 77, 505-516.	3.1	91
36	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.	2.8	89

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37	Tufa-forming biofilms of German karstwater streams: microorganisms, exopolymers, hydrochemistry and calcification. Geological Society Special Publication, 2010, 336, 83-118.	1.3	86
38	Extracellular DNA in adhesion and biofilm formation of four environmental isolates: a quantitative study. FEMS Microbiology Ecology, 2013, 86, 394-403.	2.7	86
39	Assessment of Fluorochromes for Two-Photon Laser Scanning Microscopy of Biofilms. Applied and Environmental Microbiology, 2002, 68, 901-909.	3.1	85
40	Sorption and metabolism of selected herbicides in river biofilm communities. Canadian Journal of Microbiology, 2001, 47, 634-641.	1.7	83
41	A simple rotating annular reactor for replicated biofilm studies. Journal of Microbiological Methods, 2000, 42, 215-224.	1.6	81
42	Oxygen profiles and biomass distribution in biopellets ofAspergillus niger. Biotechnology and Bioengineering, 2005, 92, 614-623.	3.3	77
43	The acid soluble extracellular polymeric substance of aerobic granular sludge dominated by Defluviicoccus sp.. Water Research, 2017, 122, 148-158.	11.3	76
44	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.	1.6	73
45	Impact of Mycelia on the Accessibility of Fluorene to PAH-Degrading Bacteria. Environmental Science & Technology, 2013, 47, 6908-6915.	10.0	73
46	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.	3.9	72
47	Miniaturized calorimetry â€" A new method for real-time biofilm activity analysis. Journal of Microbiological Methods, 2008, 74, 74-81.	1.6	65
48	Characterization of the microbial community of lotic organic aggregates (Ã¢Â€Â˜river snowÃ¢Â€Â™) in the Elbe River of Germany by cultivation and molecular methods. FEMS Microbiology Ecology, 2000, 33, 157-170.	2.7	64
49	Three Stages of a Biofilm Community Developing at the Liquid-Liquid Interface between Polychlorinated Biphenyls and Water. Applied and Environmental Microbiology, 2005, 71, 7301-7309.	3.1	64
50	Enrichment and characterization ofÃ¢Â€Âƒ a sulfate-reducing toluene-degrading microbial consortium by combiningin situmicrocosms and stable isotope probing techniques. FEMS Microbiology Ecology, 2010, 71, 237-246.	2.7	63
51	A flow-lane incubator for studying freshwater and marine phototrophic biofilms. Journal of Microbiological Methods, 2007, 70, 336-345.	1.6	62
52	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.	6.4	62
53	Insights into the Structure and Metabolic Function of Microbes That Shape Pelagic Iron-Rich Aggregates (â€œIron Snowâ€). Applied and Environmental Microbiology, 2013, 79, 4272-4281.	3.1	60
54	The composition and compression of biofilms developed on ultrafiltration membranes determine hydraulic biofilm resistance. Water Research, 2016, 102, 63-72.	11.3	60

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55	3D finite element model of biofilm detachment using real biofilm structures from CLSM data. Biotechnology and Bioengineering, 2009, 103, 177-186.	3.3	58
56	Aerobic granular sludge contains Hyaluronic acid-like and sulfated glycosaminoglycans-like polymers. Water Research, 2020, 169, 115291.	11.3	58
57	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, 6427-6436.	3.1	54
58	Modelling the structure and function of extracellular polymeric substances in biofilms with new numerical techniques. Water Science and Technology, 2001, 43, 121-127.	2.5	53
59	Interaction between biofilm development, structure and detachment in rotating annular reactors. Bioprocess and Biosystems Engineering, 2008, 31, 619-629.	3.4	53
60	Microbial "footprints" and the general ability of microorganisms to label interfaces. Canadian Journal of Microbiology, 1992, 38, 1005-1008.	1.7	52
61	Quality of dissolved organic matter affects planktonic but not biofilm bacterial production in streams. Science of the Total Environment, 2015, 506-507, 353-360.	8.0	51
62	The role of hydrodynamics in shaping the composition and architecture of epilithic biofilms in fluvial ecosystems. Water Research, 2017, 127, 211-222.	11.3	50
63	Biofilm dynamics and EPS production of a thermoacidophilic bioleaching archaeon. New Biotechnology, 2019, 51, 21-30.	4.4	50
64	Microflora on explanted silicone rubber voice prostheses: taxonomy, hydrophobicity and electrophoretic mobility. Journal of Applied Bacteriology, 1994, 76, 521-528.	1.1	49
65	Arsenic-Rich Acid Mine Water with Extreme Arsenic Concentration: Mineralogy, Geochemistry, Microbiology, and Environmental Implications. Environmental Science & Technology, 2014, 48, 13685-13693.	10.0	49
66	Use of lectins to in situ visualize glycoconjugates of extracellular polymeric substances in acidophilic archaeal biofilms. Microbial Biotechnology, 2015, 8, 448-461.	4.2	49
67	STRUCTURAL AND FUNCTIONAL RESPONSES OF RIVER BIOFILM COMMUNITIES TO THE NONSTEROIDAL ANTI-INFLAMMATORY DICLOFENAC. Environmental Toxicology and Chemistry, 2007, 26, 573.	4.3	48
68	Effective diffusivities and mass fluxes in fungal biopellets. Biotechnology and Bioengineering, 2009, 103, 1202-1213.	3.3	48
69	Benzene and sulfide removal from groundwater treated in a microbial fuel cell. Biotechnology and Bioengineering, 2013, 110, 3104-3113.	3.3	48
70	Aerated treatment pond technology with biofilm promoting mats for the bioremediation of benzene, MTBE and ammonium contaminated groundwater. Water Research, 2010, 44, 1785-1796.	11.3	46
71	Colonization and biofilm formation of the extremely acidophilic archaeon Ferroplasma acidiphilum. Hydrometallurgy, 2014, 150, 245-252.	4.3	46
72	Fluorescence Lectin Bar-Coding of Glycoconjugates in the Extracellular Matrix of Biofilm and Bioaggregate Forming Microorganisms. Microorganisms, 2017, 5, 5.	3.6	46

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73	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.	10.0	45
74	Biosurfactant production by thermophilic dairy streptococci. Applied Microbiology and Biotechnology, 1994, 41, 4-7.	3.6	44
75	Enrichment of anaerobic benzene-degrading microorganisms by in situ microcosms. FEMS Microbiology Ecology, 2008, 63, 94-106.	2.7	44
76	Interaction of cyanobacteria with calcium facilitates the sedimentation of microplastics in a eutrophic reservoir. Water Research, 2021, 189, 116582.	11.3	44
77	Mapping glycoconjugate-mediated interactions of marine Bacteroidetes with diatoms. Systematic and Applied Microbiology, 2013, 36, 417-425.	2.8	43
78	Grazing resistance of bacterial biofilms: a matter of predatorsâ€™ feeding trait. FEMS Microbiology Ecology, 2017, 93, .	2.7	43
79	An amphiphilic polysaccharide from an adhesiveRhodococcusstrain. FEMS Microbiology Letters, 1988, 49, 389-392.	1.8	42
80	Physiological Adaptation of a Nitrate-Storing Beggiatoa sp. to Diel Cycling in a Phototrophic Hypersaline Mat. Applied and Environmental Microbiology, 2007, 73, 7013-7022.	3.1	42
81	Investigation of Microbial Biofilm Structure by Laser Scanning Microscopy. Advances in Biochemical Engineering/Biotechnology, 2014, 146, 1-51.	1.1	42
82	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.	3.5	42
83	Sialic acids in the extracellular polymeric substances of seawater-adapted aerobic granular sludge. Water Research, 2019, 155, 343-351.	11.3	41
84	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.	3.3	39
85	Visualization and analysis of EPS glycoconjugates of the thermoacidophilic archaeon Sulfolobus metallicus. Applied Microbiology and Biotechnology, 2015, 99, 7343-7356.	3.6	39
86	Community structure and photosynthetic activity of epilithon from a highly acidic (pH?2) mountain stream in Patagonia, Argentina. Extremophiles, 2004, 8, 463-473.	2.3	38
87	Land-based salmon aquacultures change the quality and bacterial degradation of riverine dissolved organic matter. Scientific Reports, 2017, 7, 43739.	3.3	36
88	In Situ Characterization of Extracellular Polymeric Substances (EPS) in Biofilm Systems. , 1999, , 21-47.		35
89	Characterization of Adhesion Threads of Deinococcus geothermalis as Type IV Pili. Journal of Bacteriology, 2006, 188, 7016-7021.	2.2	34
90	Online assessment of biofilm development, sloughing and forced detachment in tube reactor by means of magnetic resonance microscopy. Biotechnology and Bioengineering, 2010, 107, 172-181.	3.3	34

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91	Pelagic boundary conditions affect the biological formation of ironâ€rich particles (iron snow) and their microbial communities. Limnology and Oceanography, 2011, 56, 1386-1398.	3.1	34
92	Microbial megacities fueled by methane oxidation in a mineral spring cave. ISME Journal, 2018, 12, 87-100.	9.8	34
93	Plastic Alters Biofilm Quality as Food Resource of the Freshwater Gastropod Radix balthica. Environmental Science & Technology, 2018, 52, 11387-11393.	10.0	34
94	In situ detection of bacteria in calcified biofilms using FISH and CARDâ€“FISH. Journal of Microbiological Methods, 2008, 75, 103-108.	1.6	33
95	Harvesting electricity from benzene and ammonium-contaminated groundwater using a microbial fuel cell with an aerated cathode. RSC Advances, 2015, 5, 5321-5330.	3.6	33
96	In situevidence for metabolic and chemical microdomains in the structured polymer matrix of bacterial microcolonies. FEMS Microbiology Ecology, 2016, 92, fiw183.	2.7	33
97	Inhibition of lotic biofilms by Diclofenac. Applied Microbiology and Biotechnology, 2002, 59, 488-492.	3.6	32
98	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, 353-364.	2.8	32
99	Sloughing and limited substrate conditions trigger filamentous growth in heterotrophic biofilmsâ€"Measurements in flow-through tube reactor. Chemical Engineering Science, 2009, 64, 2723-2732.	3.8	31
100	Dominance of â€˜Gallionella capsiferriformansâ€™ and heavy metal association with Gallionellaâ€like stalks in metalâ€rich <scp>pH</scp> 6 mine water discharge. Geobiology, 2016, 14, 68-90.	2.4	31
101	Fluorescencein situ Hybridization of Freshwater Fungi. International Review of Hydrobiology, 2001, 86, 371-381.	0.9	30
102	The Perfect Slime: Microbial Extracellular Polymeric Substances (EPS). Water Intelligence Online, 2016, 15, 9781780407425-9781780407425.	0.3	30
103	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.	0.9	30
104	EPS Glycoconjugate Profiles Shift as Adaptive Response in Anaerobic Microbial Granulation at High Salinity. Frontiers in Microbiology, 2018, 9, 1423.	3.5	28
105	Insight Into Interactions of Thermoacidophilic Archaea With Elemental Sulfur: Biofilm Dynamics and EPS Analysis. Frontiers in Microbiology, 2019, 10, 896.	3.5	28
106	Performance and microbial structure of a nitrifying fluidized-bed reactor. Water Research, 2000, 34, 311-319.	11.3	27
107	Biofilms facilitate cheating and social exploitation of Î²-lactam resistance in Escherichia coli. Npj Biofilms and Microbiomes, 2019, 5, 36.	6.4	27
108	Architecture of Deinococcus geothermalis biofilms on glass and steel: a lectin study. Environmental Microbiology, 2008, 10, 1752-1759.	3.8	26

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109	Chip-calorimetric monitoring of biofilm eradication with antibiotics provides mechanistic information. International Journal of Medical Microbiology, 2013, 303, 158-165.	3.6	26
110	Imaging and quantifying virus fluorescence signals on aquatic aggregates: a new method and its implication for aquatic microbial ecology. FEMS Microbiology Ecology, 2009, 68, 372-380.	2.7	23
111	Extracellular polymeric substances in microbial biofilms. , 2010, , 733-758.		22
112	One-photon versus Two-photon Laser Scanning Mic roscopy and Digital Image Analysis of Microbial Biofilms. Methods in Microbiology, 2004, 34, 89-136.	0.8	21
113	Morphology of Filamentous Fungi: Linking Cellular Biology to Process Engineering Using Aspergillus niger. , 2010, 121, 1-21.		21
114	The biofilm matrix ofCampylobacter jejunidetermined by fluorescence lectin-binding analysis. Biofouling, 2016, 32, 597-608.	2.2	21
115	Microscale Analyses of the Formation and Nature of Microbial Biofilm Communities in River Systems. Reviews in Environmental Science and Biotechnology, 2003, 2, 85-97.	8.1	20
116	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, 5952-5962.	3.1	20
117	In Situ Activity of Suspended and Immobilized Microbial Communities as Measured by Fluorescence Lifetime Imaging. Applied and Environmental Microbiology, 2008, 74, 294-299.	3.1	19
118	Visualizing the dental biofilm matrix by means of fluorescence lectin-binding analysis. Journal of Oral Microbiology, 2017, 9, 1345581.	2.7	19
119	Encrustations on ureteral stents from patients without urinary tract infection reveal distinct urotypes and a low bacterial load. Microbiome, 2019, 7, 60.	11.1	19
120	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, 31-39.	3.4	18
121	Vacuolated Beggiatoaâ€like filaments from different hypersaline environments form a novel genus. Environmental Microbiology, 2011, 13, 3194-3205.	3.8	17
122	Biofilm Development in Time on a Silicone Voice Prosthesisâ€”A Case Study. Microbial Ecology in Health and Disease, 1994, 7, 27-33.	3.5	16
123	Two-Photon Imaging for Studying the Microbial Ecology of Biofilm Systems. Microbes and Environments, 2004, 19, 1-6.	1.6	15
124	Biofilm formation and interspecies interactions in mixed cultures of thermo-acidophilic archaea Acidianus spp. and Sulfolobus metallicus. Research in Microbiology, 2016, 167, 604-612.	2.1	15
125	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.	0.6	14
126	Chip-calorimetry provides real time insights into the inactivation of biofilms by predatory bacteria. Biofouling, 2012, 28, 351-362.	2.2	14

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127	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, 129-137.	1.6	14
128	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.	2.8	14
129	Production of nonulosonic acids in the extracellular polymeric substances of â€œCandidatus Accumulibacter phosphatisâ€• Applied Microbiology and Biotechnology, 2021, 105, 3327-3338.	3.6	14
130	Iron encrustations on filamentous algae colonized by <i>Gallionella</i>-related bacteria in a metal-polluted freshwater stream. Biogeosciences, 2015, 12, 5277-5289.	3.3	13
131	The Biofilm Lifestyle of Acidophilic Metal/Sulfur-Oxidizing Microorganisms. Grand Challenges in Biology and Biotechnology, 2016, , 177-213.	2.4	13
132	Protistan predation interferes with bacterial longâ€term adaptation to substrate restriction by selecting for defence morphotypes. Journal of Evolutionary Biology, 2016, 29, 2297-2310.	1.7	13
133	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.	1.8	13
134	Extremophile microbiomes in acidic and hypersaline river sediments of <scp>W</scp>estern <scp>A</scp>ustralia. Environmental Microbiology Reports, 2016, 8, 58-67.	2.4	12
135	The importance of biofilm formation for cultivation of a Micrarchaeon and its interactions with its Thermoplasmatales host. Nature Communications, 2022, 13, 1735.	12.8	12
136	Osteopontin adsorption to Gram-positive cells reduces adhesion forces and attachment to surfaces under flow. Journal of Oral Microbiology, 2017, 9, 1379826.	2.7	11
137	Dissolution of Calcite in the Twilight Zone: Bacterial Control of Dissolution of Sinking Planktonic Carbonates Is Unlikely. PLoS ONE, 2011, 6, e26404.	2.5	9
138	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.	3.6	9
139	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.	2.7	9
140	Thermodesulfobium sp. strain 3baa, an acidophilic sulfate reducing bacterium forming biofilms triggered by mineral precipitation. Environmental Microbiology, 2018, 20, 3717-3731.	3.8	8
141	Aquatic Biofilms: Development, Cultivation, Analyses, and Applications. , 0, , 4.2.3-1-4.2.3-33.		7
142	Laser Scanning Microscopy for Microbial Flocs and Particles. , 0, , 469-505.		7
143	Biofilms Associated with Health. , 1992, , 21-34.		7
144	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.	1.6	6

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145	Flatworm mucus as the base of a food web. BMC Ecology, 2019, 19, 15.	3.0	6
146	A Whole Cell Bioreporter Approach to Assess Transport and Bioavailability of Organic Contaminants in Water Unsaturated Systems. Journal of Visualized Experiments, 2014, , .	0.3	5
147	Biofilm padsâ€"an easy method to manufacture artificial biofilms embedded in an alginate polymer matrix. Limnology and Oceanography: Methods, 2020, 18, 1-7.	2.0	5
148	Environmental conditions affect the food quality of plastic associated biofilms for the benthic grazer Physa fontinalis. Science of the Total Environment, 2022, 816, 151663.	8.0	5
149	Catabolism of sialic acids in an environmental microbial community. FEMS Microbiology Ecology, 2022, 98, .	2.7	5
150	Confocal Microscopy of Biofilms â€" Spatiotemporal Approaches. , 2006, , 870-888.		4
151	Multi-Parameter Laser Imaging Reveals Complex Microscale Biofilm Matrix in a Thick (4,000 Î¼m) Aerobic Methanol Oxidizing Community. Frontiers in Microbiology, 2018, 9, 2186.	3.5	4
152	Laser Scanning Microscopy. , 0, , 34-53.		4
153	Interspecies Interactions of Metal-Oxidizing Thermo-Acidophilic Archaea <i>Acidianus</i> and <i>Sulfolobus</i>. Advanced Materials Research, 0, 1130, 105-108.	0.3	3
154	Biofilm diversity, structure and matrix seasonality in a full-scale cooling tower. Biofouling, 2018, 34, 1093-1109.	2.2	3
155	Development and Architecture of Complex Environmental Biofilms. , 2003, , 29-45.		3
156	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, 2727-2747.	1.7	2
157	Initial Attachment and Biofilm Formation of a Novel Crenarchaeote on Mineral Sulfides. Advanced Materials Research, 0, 1130, 127-130.	0.3	2
158	Development and structure of microbial biofilms in river water studied by confocal laser scanning microscopy. FEMS Microbiology Ecology, 1997, 24, 11-25.	2.7	2
159	Mikrobielle WerkstoffzerstÃ¶rung - SchadensfÃlle und GegenmaÃŸnahmen fÃ¼r Kunst- und Naturstoffe. Mikrobiologische ZerstÃ¶rung von Silikon-Elastomeren. Materials and Corrosion - Werkstoffe Und Korrosion, 1994, 45, 170-171.	1.5	1
160	A Test Device for Microalgal Antifouling Using Fluctuating pH Values on Conductive Paints. Water (Switzerland), 2020, 12, 1597.	2.7	1
161	Examination of Microbial Communities on Hydrocarbons by Means of Laser Scanning Microscopy. , 2010, , 4073-4084.		1
162	Protocol for Laser Scanning Microscopy of Microorganisms on Hydrocarbons. Springer Protocols, 2014, , 29-47.	0.3	0