

Paul Stoodley

List of Publications by Citations

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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.

249
papers

23,510
citations

70
h-index

151
g-index

278
ext. papers

26,732
ext. citations

5.3
avg, IF

7.03
L-index

#	Paper	IF	Citations
249	Bacterial biofilms: from the natural environment to infectious diseases. <i>Nature Reviews Microbiology</i> , 2004 , 2, 95-108	22.2	4537
248	Biofilms as complex differentiated communities. <i>Annual Review of Microbiology</i> , 2002 , 56, 187-209	17.5	2085
247	Survival strategies of infectious biofilms. <i>Trends in Microbiology</i> , 2005 , 13, 34-40	12.4	1295
246	Evolving concepts in biofilm infections. <i>Cellular Microbiology</i> , 2009 , 11, 1034-43	3.9	954
245	Targeting microbial biofilms: current and prospective therapeutic strategies. <i>Nature Reviews Microbiology</i> , 2017 , 15, 740-755	22.2	734
244	Direct detection of bacterial biofilms on the middle-ear mucosa of children with chronic otitis media. <i>JAMA - Journal of the American Medical Association</i> , 2006 , 296, 202-11	27.4	645
243	Effects of biofilm structures on oxygen distribution and mass transport. <i>Biotechnology and Bioengineering</i> , 1994 , 43, 1131-8	4.9	575
242	Biofilm formation and dispersal and the transmission of human pathogens. <i>Trends in Microbiology</i> , 2005 , 13, 7-10	12.4	410
241	Biofilm material properties as related to shear-induced deformation and detachment phenomena. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2002 , 29, 361-7	4.2	358
240	Human leukocytes adhere to, penetrate, and respond to <i>Staphylococcus aureus</i> biofilms. <i>Infection and Immunity</i> , 2002 , 70, 6339-45	3.7	317
239	Growth and detachment of cell clusters from mature mixed-species biofilms. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 5608-13	4.8	279
238	Liquid flow in biofilm systems. <i>Applied and Environmental Microbiology</i> , 1994 , 60, 2711-6	4.8	278
237	Structural deformation of bacterial biofilms caused by short-term fluctuations in fluid shear: An in situ investigation of biofilm rheology 1999 , 65, 83-92		261
236	Influence of hydrodynamics and nutrients on biofilm structure. <i>Journal of Applied Microbiology</i> , 1998 , 85 Suppl 1, 19S-28S	4.7	260
235	Influence of hydrodynamics and cell signaling on the structure and behavior of <i>Pseudomonas aeruginosa</i> biofilms. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 4457-64	4.8	259
234	Viscoelastic fluid description of bacterial biofilm material properties. <i>Biotechnology and Bioengineering</i> , 2002 , 80, 289-96	4.9	238
233	Towards diagnostic guidelines for biofilm-associated infections. <i>FEMS Immunology and Medical Microbiology</i> , 2012 , 65, 127-45		226

232	The prevalence of biofilms in chronic wounds: a systematic review and meta-analysis of published data. <i>Journal of Wound Care</i> , 2017 , 26, 20-25	2.2	223
231	Biofilms in periprosthetic orthopedic infections. <i>Future Microbiology</i> , 2014 , 9, 987-1007	2.9	206
230	Liquid flow in heterogeneous biofilms. <i>Biotechnology and Bioengineering</i> , 1994 , 44, 636-41	4.9	198
229	Detachment characteristics and oxacillin resistance of <i>Staphylococcus aureus</i> biofilm emboli in an in vitro catheter infection model. <i>Journal of Bacteriology</i> , 2004 , 186, 4486-91	3.5	196
228	Usnic acid, a natural antimicrobial agent able to inhibit bacterial biofilm formation on polymer surfaces. <i>Antimicrobial Agents and Chemotherapy</i> , 2004 , 48, 4360-5	5.9	189
227	Bacterial biofilms: a diagnostic and therapeutic challenge. <i>Expert Review of Anti-Infective Therapy</i> , 2003 , 1, 667-83	5.5	187
226	Characterization of biofilm matrix, degradation by DNase treatment and evidence of capsule downregulation in <i>Streptococcus pneumoniae</i> clinical isolates. <i>BMC Microbiology</i> , 2008 , 8, 173	4.5	184
225	Developmental regulation of microbial biofilms. <i>Current Opinion in Biotechnology</i> , 2002 , 13, 228-33	11.4	183
224	Measurement of local diffusion coefficients in biofilms by microinjection and confocal microscopy. <i>Biotechnology and Bioengineering</i> , 1997 , 53, 151-8	4.9	177
223	Can laboratory reference strains mirror "real-world" pathogenesis?. <i>Trends in Microbiology</i> , 2005 , 13, 58-63	12.4	170
222	Viscoelasticity of biofilms and their recalcitrance to mechanical and chemical challenges. <i>FEMS Microbiology Reviews</i> , 2015 , 39, 234-45	15.1	165
221	Commonality of elastic relaxation times in biofilms. <i>Physical Review Letters</i> , 2004 , 93, 098102	7.4	163
220	Phenotypic differentiation and seeding dispersal in non-mucoid and mucoid <i>Pseudomonas aeruginosa</i> biofilms. <i>Microbiology (United Kingdom)</i> , 2005 , 151, 1569-1576	2.9	159
219	Designing biomimetic antifouling surfaces. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 4729-54	3	146
218	Viscoelasticity of <i>Staphylococcus aureus</i> biofilms in response to fluid shear allows resistance to detachment and facilitates rolling migration. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 2175-8	4.8	138
217	Antibiotic-loaded synthetic calcium sulfate beads for prevention of bacterial colonization and biofilm formation in periprosthetic infections. <i>Antimicrobial Agents and Chemotherapy</i> , 2015 , 59, 111-20	5.9	135
216	Prevention and treatment of <i>Staphylococcus aureus</i> biofilms. <i>Expert Review of Anti-Infective Therapy</i> , 2015 , 13, 1499-516	5.5	135
215	Surface-attached cells, biofilms and biocide susceptibility: implications for hospital cleaning and disinfection. <i>Journal of Hospital Infection</i> , 2015 , 89, 16-27	6.9	131

214	Direct demonstration of viable <i>Staphylococcus aureus</i> biofilms in an infected total joint arthroplasty. A case report. <i>Journal of Bone and Joint Surgery - Series A</i> , 2008 , 90, 1751-8	5.6	131
213	The effect of the chemical, biological, and physical environment on quorum sensing in structured microbial communities. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 371-80	4.4	129
212	Cardiac fibroblasts influence cardiomyocyte phenotype in vitro. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 292, C1799-808	5.4	129
211	The role of biofilms in otolaryngologic infections: update 2007. <i>Current Opinion in Otolaryngology and Head and Neck Surgery</i> , 2007 , 15, 347-51	2	129
210	Insights into the genome of large sulfur bacteria revealed by analysis of single filaments. <i>PLoS Biology</i> , 2007 , 5, e230	9.7	126
209	Consensus guidelines for the identification and treatment of biofilms in chronic nonhealing wounds. <i>Wound Repair and Regeneration</i> , 2017 , 25, 744-757	3.6	122
208	Relation between the structure of an aerobic biofilm and transport phenomena. <i>Water Science and Technology</i> , 1995 , 32, 11-18	2.2	121
207	Evolving perspectives of biofilm structure. <i>Biofouling</i> , 1999 , 14, 75-90	3.3	117
206	The role of biofilms in otolaryngologic infections. <i>Current Opinion in Otolaryngology and Head and Neck Surgery</i> , 2004 , 12, 185-90	2	116
205	The formation of migratory ripples in a mixed species bacterial biofilm growing in turbulent flow. <i>Environmental Microbiology</i> , 1999 , 1, 447-55	5.2	116
204	Viscoelastic properties of a mixed culture biofilm from rheometer creep analysis. <i>Biofouling</i> , 2003 , 19, 279-85	3.3	114
203	Influence of electric fields and pH on biofilm structure as related to the bioelectric effect. <i>Antimicrobial Agents and Chemotherapy</i> , 1997 , 41, 1876-9	5.9	112
202	New methods for the detection of orthopedic and other biofilm infections. <i>FEMS Immunology and Medical Microbiology</i> , 2011 , 61, 133-40		109
201	Low-Dose Nitric Oxide as Targeted Anti-biofilm Adjunctive Therapy to Treat Chronic <i>Pseudomonas aeruginosa</i> Infection in Cystic Fibrosis. <i>Molecular Therapy</i> , 2017 , 25, 2104-2116	11.7	106
200	Orthopaedic biofilm infections. <i>Current Orthopaedic Practice</i> , 2011 , 22, 558-563	0.4	104
199	Adenoid reservoir for pathogenic biofilm bacteria. <i>Journal of Clinical Microbiology</i> , 2011 , 49, 1411-20	9.7	104
198	Bacterial plurality as a general mechanism driving persistence in chronic infections. <i>Clinical Orthopaedics and Related Research</i> , 2005 , 20-4	2.2	102
197	Liquid flow and mass transport in heterogeneous biofilms. <i>Water Research</i> , 1996 , 30, 2761-2765	12.5	102

196	Mechano-bactericidal actions of nanostructured surfaces. <i>Nature Reviews Microbiology</i> , 2021 , 19, 8-22	2.2	98
195	Oscillation characteristics of biofilm streamers in turbulent flowing water as related to drag and pressure drop. <i>Biotechnology and Bioengineering</i> , 1998 , 57, 536-44	4.9	95
194	Molecular and imaging techniques for bacterial biofilms in joint arthroplasty infections. <i>Clinical Orthopaedics and Related Research</i> , 2005 , 31-40	2.2	92
193	Chronic surgical site infection due to suture-associated polymicrobial biofilm. <i>Surgical Infections</i> , 2009 , 10, 457-61	2	90
192	Prevention of staphylococcal biofilm-associated infections by the quorum sensing inhibitor RIP. <i>Clinical Orthopaedics and Related Research</i> , 2005 , 48-54	2.2	86
191	Engineering approaches for the detection and control of orthopaedic biofilm infections. <i>Clinical Orthopaedics and Related Research</i> , 2005 , 59-66	2.2	84
190	Identification of adenoid biofilms with middle ear pathogens in otitis-prone children utilizing SEM and FISH. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2009 , 73, 1242-8	1.7	81
189	Influence of the hydrodynamic environment on quorum sensing in <i>Pseudomonas aeruginosa</i> biofilms. <i>Journal of Bacteriology</i> , 2007 , 189, 8357-60	3.5	81
188	Characterization of a mixed MRSA/MRSE biofilm in an explanted total ankle arthroplasty. <i>FEMS Immunology and Medical Microbiology</i> , 2011 , 62, 66-74		80
187	Salicylic acid-releasing polyurethane acrylate polymers as anti-biofilm urological catheter coatings. <i>Acta Biomaterialia</i> , 2012 , 8, 1869-80	10.8	79
186	Impact of nitrate on the structure and function of bacterial biofilm communities in pipelines used for injection of seawater into oil fields. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 2841-51	4.8	75
185	Biofilm removal from silicone tubing: an assessment of the efficacy of dialysis machine decontamination procedures using an in vitro model. <i>Journal of Hospital Infection</i> , 2003 , 53, 64-71	6.9	74
184	Rheology of biofilms formed from the dental plaque pathogen <i>Streptococcus mutans</i> . <i>Biofilms</i> , 2004 , 1, 49-56		73
183	Effect of low-intensity ultrasound upon biofilm structure from confocal scanning laser microscopy observation. <i>Biomaterials</i> , 1996 , 17, 1975-80	15.6	73
182	Extracellular DNA impedes the transport of vancomycin in <i>Staphylococcus epidermidis</i> biofilms preexposed to subinhibitory concentrations of vancomycin. <i>Antimicrobial Agents and Chemotherapy</i> , 2014 , 58, 7273-82	5.9	72
181	Comparing PMMA and calcium sulfate as carriers for the local delivery of antibiotics to infected surgical sites. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 870-7	3.5	71
180	The influence of fluid shear and AlCl ₃ on the material properties of <i>Pseudomonas aeruginosa</i> PAO1 and <i>Desulfovibrio</i> sp. EX265 biofilms. <i>Water Science and Technology</i> , 2001 , 43, 113-120	2.2	71
179	Ultrasonically controlled release of ciprofloxacin from self-assembled coatings on poly(2-hydroxyethyl methacrylate) hydrogels for <i>Pseudomonas aeruginosa</i> biofilm prevention. <i>Antimicrobial Agents and Chemotherapy</i> , 2005 , 49, 4272-9	5.9	70

178	2018 international consensus meeting on musculoskeletal infection: Summary from the biofilm workgroup and consensus on biofilm related musculoskeletal infections. <i>Journal of Orthopaedic Research</i> , 2019 , 37, 1007-1017	3.8	67
177	Real-time microsensor measurement of local metabolic activities in ex vivo dental biofilms exposed to sucrose and treated with chlorhexidine. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 2326-34	4.8	67
176	<i>Helicobacter pylori</i> ATCC 43629/NCTC 11639 Outer Membrane Vesicles (OMVs) from Biofilm and Planktonic Phase Associated with Extracellular DNA (eDNA). <i>Frontiers in Microbiology</i> , 2015 , 6, 1369	5.7	66
175	The distributed genome hypothesis as a rubric for understanding evolution in situ during chronic bacterial biofilm infectious processes. <i>FEMS Immunology and Medical Microbiology</i> , 2010 , 59, 269-79		66
174	Structural deformation of bacterial biofilms caused by short-term fluctuations in fluid shear: an in situ investigation of biofilm rheology. <i>Biotechnology and Bioengineering</i> , 1999 , 65, 83-92	4.9	64
173	The influence of fluid shear on the structure and material properties of sulphate-reducing bacterial biofilms. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2002 , 29, 347-53	4.2	62
172	Role of biofilms in neurosurgical device-related infections. <i>Neurosurgical Review</i> , 2005 , 28, 249-55	3.9	60
171	Relationship between mass transfer coefficient and liquid flow velocity in heterogenous biofilms using microelectrodes and confocal microscopy. <i>Biotechnology and Bioengineering</i> , 1997 , 56, 681-8	4.9	56
170	Approaches to biofilm-associated infections: the need for standardized and relevant biofilm methods for clinical applications. <i>Expert Review of Anti-Infective Therapy</i> , 2017 , 15, 147-156	5.5	55
169	Considering hidradenitis suppurativa as a bacterial biofilm disease. <i>FEMS Immunology and Medical Microbiology</i> , 2012 , 65, 385-9		54
168	Denitrification in human dental plaque. <i>BMC Biology</i> , 2010 , 8, 24	7.3	52
167	Detachment, surface migration, and other dynamic behavior in bacterial biofilms revealed by digital time-lapse imaging. <i>Methods in Enzymology</i> , 2001 , 337, 306-19	1.7	51
166	Relation between the structure of an aerobic biofilm and transport phenomena. <i>Water Science and Technology</i> , 1995 , 32, 11	2.2	51
165	Hydrodynamics and kinetics in biofilm systems - recent advances and new problems. <i>Water Science and Technology</i> , 1994 , 29, 223-229	2.2	51
164	Detection and Physicochemical Characterization of Membrane Vesicles (MVs) of DSM 17938. <i>Frontiers in Microbiology</i> , 2017 , 8, 1040	5.7	48
163	Statistical quantification of detachment rates and size distributions of cell clumps from wild-type (PAO1) and cell signaling mutant (JP1) <i>Pseudomonas aeruginosa</i> biofilms. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 5847-52	4.8	46
162	Comparative supragenomic analyses among the pathogens <i>Staphylococcus aureus</i> , <i>Streptococcus pneumoniae</i> , and <i>Haemophilus influenzae</i> using a modification of the finite supragenome model. <i>BMC Genomics</i> , 2011 , 12, 187	4.5	44
161	Flow induced vibrations, drag force, and pressure drop in conduits covered with biofilm. <i>Water Science and Technology</i> , 1995 , 32, 19-26	2.2	44

160	The high-affinity phosphate transporter Pst in <i>Proteus mirabilis</i> HI4320 and its importance in biofilm formation. <i>Microbiology (United Kingdom)</i> , 2009 , 155, 1523-1535	2.9	42
159	Modular spectral imaging system for discrimination of pigments in cells and microbial communities. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 758-71	4.8	42
158	Biofilm plaque and hydrodynamic effects on mass transfer, fluoride delivery and caries. <i>Journal of the American Dental Association</i> , 2008 , 139, 1182-90	1.9	42
157	Fluorescence "in situ" hybridization for the detection of biofilm in the middle ear and upper respiratory tract mucosa. <i>Methods in Molecular Biology</i> , 2009 , 493, 191-213	1.4	40
156	Anti-biofilm performance of three natural products against initial bacterial attachment. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 21757-80	6.3	38
155	A model of fluid-biofilm interaction using a Burger material law. <i>Biotechnology and Bioengineering</i> , 2007 , 96, 259-71	4.9	38
154	Microbial Biofilms 2006 , 904-937		38
153	Bacterial Biofilms, Other Structures Seen as Mainstream Concepts. <i>Microbe Magazine</i> , 2007 , 2, 231-237		38
152	Biofilm mechanics: Implications in infection and survival. <i>Biofilm</i> , 2020 , 2, 100017	5.9	36
151	The extracellular DNA lattice of bacterial biofilms is structurally related to Holliday junction recombination intermediates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 25068-25077	11.5	36
150	Direct demonstration of bacterial biofilms on prosthetic mesh after ventral herniorrhaphy. <i>Surgical Infections</i> , 2015 , 16, 45-53	2	34
149	Tonsillolith: not just a stone but a living biofilm. <i>Otolaryngology - Head and Neck Surgery</i> , 2009 , 141, 316-315	3.5	34
148	Laser disruption of biofilm. <i>Laryngoscope</i> , 2008 , 118, 1168-73	3.6	34
147	Experimental and conceptual studies on mass transport in biofilms. <i>Water Science and Technology</i> , 1995 , 31, 153	2.2	34
146	Removal of Dental Biofilms with an Ultrasonically Activated Water Stream. <i>Journal of Dental Research</i> , 2015 , 94, 1303-9	8.1	32
145	Direct demonstration of <i>Staphylococcus</i> biofilm in an external ventricular drain in a patient with a history of recurrent ventriculoperitoneal shunt failure. <i>Pediatric Neurosurgery</i> , 2010 , 46, 127-32	0.9	32
144	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, 250-6	4.2	31
143	Flowing biofilms as a transport mechanism for biomass through porous media under laminar and turbulent conditions in a laboratory reactor system. <i>Biofouling</i> , 2005 , 21, 161-8	3.3	31

142	Minimum information guideline for spectrophotometric and fluorometric methods to assess biofilm formation in microplates. <i>Biofilm</i> , 2020 , 2, 100010	5.9	31
141	Viscoelastic properties of <i>Pseudomonas aeruginosa</i> variant biofilms. <i>Scientific Reports</i> , 2018 , 8, 9691	4.9	31
140	The role of FLO11 in <i>Saccharomyces cerevisiae</i> biofilm development in a laboratory based flow-cell system. <i>FEMS Yeast Research</i> , 2007 , 7, 372-9	3.1	30
139	<i>Streptococcus mutans</i> biofilm transient viscoelastic fluid behaviour during high-velocity microsprays. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 59, 197-206	4.1	29
138	Removal of interproximal dental biofilms by high-velocity water microdrops. <i>Journal of Dental Research</i> , 2014 , 93, 68-73	8.1	29
137	Intracellular residency of <i>Staphylococcus aureus</i> within mast cells in nasal polyps: A novel observation. <i>Journal of Allergy and Clinical Immunology</i> , 2015 , 135, 1648-51	11.5	28
136	Applying the digital image correlation method to estimate the mechanical properties of bacterial biofilms subjected to a wall shear stress. <i>Biofouling</i> , 2009 , 25, 695-703	3.3	28
135	Experimental and conceptual studies on mass transport in biofilms. <i>Water Science and Technology</i> , 1995 , 31, 153-162	2.2	28
134	Sensing the unreachable: challenges and opportunities in biofilm detection. <i>Current Opinion in Biotechnology</i> , 2020 , 64, 79-84	11.4	28
133	Antifouling polyurethanes to fight device-related staphylococcal infections: synthesis, characterization, and antibiofilm efficacy. <i>Pathogens and Disease</i> , 2014 , 70, 401-7	4.2	27
132	Visualization and characterization of dynamic patterns of flow, growth and activity of biofilms growing in porous media. <i>Water Science and Technology</i> , 2005 , 52, 85-90	2.2	27
131	Temporal expression of <i>agrB</i> , <i>cidA</i> , and <i>alsS</i> in the early development of <i>Staphylococcus aureus</i> UAMS-1 biofilm formation and the structural role of extracellular DNA and carbohydrates. <i>Pathogens and Disease</i> , 2014 , 70, 414-22	4.2	26
130	Laser-generated shockwave for clearing medical device biofilms. <i>Photomedicine and Laser Surgery</i> , 2011 , 29, 277-82		26
129	Polymer Designs to Control Biofilm Growth on Medical Devices. <i>Reviews in Environmental Science and Biotechnology</i> , 2003 , 2, 307-319	13.9	26
128	Adjuvant antibiotic-loaded bone cement: Concerns with current use and research to make it work. <i>Journal of Orthopaedic Research</i> , 2021 , 39, 227-239	3.8	25
127	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
126	Bacterial biofilms on implanted suture material are a cause of surgical site infection. <i>Surgical Infections</i> , 2014 , 15, 592-600	2	24
125	Laser disruption and killing of methicillin-resistant <i>Staphylococcus aureus</i> biofilms. <i>American Journal of Otolaryngology - Head and Neck Medicine and Surgery</i> , 2011 , 32, 198-202	2.8	24

124	Biofilms in orthopedic infections: a review of laboratory methods. <i>Apmis</i> , 2017 , 125, 418-428	3.4	23
123	Effects of loading concentration, blood and synovial fluid on antibiotic release and anti-biofilm activity of bone cement beads. <i>Journal of Controlled Release</i> , 2017 , 248, 24-32	11.7	22
122	Cold water cleaning of brain proteins, biofilm and bone - harnessing an ultrasonically activated stream. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 20574-9	3.6	22
121	Advances in Biofilm Mechanics. <i>Springer Series on Biofilms</i> , 2011 , 111-139		22
120	Microbial tribology and disruption of dental plaque bacterial biofilms. <i>Wear</i> , 2013 , 306, 276-284	3.5	21
119	Biofilm formation by ica-positive and ica-negative strains of <i>Staphylococcus epidermidis</i> in vitro. <i>Biofouling</i> , 2009 , 25, 367-75	3.3	21
118	Low Concentrations of Nitric Oxide Modulate <i>Streptococcus pneumoniae</i> Biofilm Metabolism and Antibiotic Tolerance. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 2456-66	5.9	20
117	On the mechanics of bacterial biofilms on non-dissolvable surgical sutures: a laser scanning confocal microscopy-based finite element study. <i>Acta Biomaterialia</i> , 2013 , 9, 6641-52	10.8	20
116	Elution of antibiotics from poly(methyl methacrylate) bone cement after extended implantation does not necessarily clear the infection despite susceptibility of the clinical isolates. <i>Pathogens and Disease</i> , 2016 , 74, ftv103	4.2	19
115	Electroceutical Treatment of <i>Pseudomonas aeruginosa</i> Biofilms. <i>Scientific Reports</i> , 2019 , 9, 2008	4.9	18
114	SLIME THROUGH TIME: THE FOSSIL RECORD OF PROKARYOTE EVOLUTION. <i>Palaios</i> , 2013 , 28, 1-5	1.6	18
113	Imaging bacteria and biofilms on hardware and periprosthetic tissue in orthopedic infections. <i>Methods in Molecular Biology</i> , 2014 , 1147, 105-26	1.4	18
112	Cutaneous fistula from the gastric remnant resulting from a chronic suture-associated biofilm infection. <i>Obesity Surgery</i> , 2010 , 20, 251-6	3.7	18
111	Biofilms in nephrology. <i>Expert Opinion on Biological Therapy</i> , 2008 , 8, 1159-66	5.4	18
110	Investigation of synovial fluid induced <i>Staphylococcus aureus</i> aggregate development and its impact on surface attachment and biofilm formation. <i>PLoS ONE</i> , 2020 , 15, e0231791	3.7	18
109	16S rRNA analysis provides evidence of biofilms on all components of three infected periprosthetic knees including permanent braided suture. <i>Pathogens and Disease</i> , 2016 , 74,	4.2	17
108	Targeting intracellular <i>Staphylococcus aureus</i> to lower recurrence of orthopaedic infection. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 1086-1092	3.8	17
107	Bacterial biofilm on monofilament suture and porcine xenograft after inguinal herniorrhaphy. <i>FEMS Immunology and Medical Microbiology</i> , 2010 , 59, 405-9		17

106	The future of biofilm research - Report on the 2019 Biofilm BashS <i>Biofilm</i> , 2020 , 2, 100012	5.9	17
105	The influence of fluid shear and AICI3 on the material properties of Pseudomonas aeruginosa PAO1 and Desulfovibrio sp. EX265 biofilms. <i>Water Science and Technology</i> , 2001 , 43, 113-20	2.2	17
104	Kinetics and morphology of polymicrobial biofilm formation on polypropylene mesh. <i>FEMS Immunology and Medical Microbiology</i> , 2012 , 65, 283-90		16
103	Modelling production of extracellular polymeric substances in a pseudomonas aeruginosa chemostat culture. <i>Water Science and Technology</i> , 2001 , 43, 129-134	2.2	16
102	Development of a laboratory model to assess the removal of biofilm from interproximal spaces by powered tooth brushing. <i>American Journal of Dentistry</i> , 2002 , 15 Spec No, 12B-17B	1.3	16
101	Fluid-driven interfacial instabilities and turbulence in bacterial biofilms. <i>Environmental Microbiology</i> , 2017 , 19, 4417-4431	5.2	15
100	Chemical effects of biofilm colonization on 304 stainless steel. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996 , 14, 1755-1760	2.9	15
99	The efficacy of topical agents used in wounds for managing chronic biofilm infections: A systematic review. <i>Journal of Infection</i> , 2020 , 80, 261-270	18.9	15
98	In Vitro Efficacy of Antibiotics Released from Calcium Sulfate Bone Void Filler Beads. <i>Materials</i> , 2018 , 11,	3.5	15
97	Cephalosporin-NO-donor prodrug PYRRO-C3D shows β -lactam-mediated activity against Streptococcus pneumoniae biofilms. <i>Nitric Oxide - Biology and Chemistry</i> , 2017 , 65, 43-49	5	14
96	An experimental and computational study of the hydrodynamics of high-velocity water microdrops for interproximal tooth cleaning. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 46, 148-57	4.1	14
95	A scanning electron microscope characterisation of biofilm on failed craniofacial osteosynthesis miniplates. <i>Journal of Cranio-Maxillo-Facial Surgery</i> , 2014 , 42, e372-8	3.6	14
94	Mechanical effects, antimicrobial efficacy and cytotoxicity of usnic acid as a biofilm prophylaxis in PMMA. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 2773-80	4.5	14
93	Demonstration of Bacillus cereus in orthopaedic-implant-related infection with use of a multi-primer polymerase chain reaction-mass spectrometric assay: report of two cases. <i>Journal of Bone and Joint Surgery - Series A</i> , 2011 , 93, e85	5.6	14
92	Flow induced vibrations, drag force, and pressure drop in conduits covered with biofilm. <i>Water Science and Technology</i> , 1995 , 32, 19	2.2	14
91	High-Velocity Microsprays Enhance Antimicrobial Activity in Streptococcus mutans Biofilms. <i>Journal of Dental Research</i> , 2016 , 95, 1494-1500	8.1	13
90	Mathematical modeling of dispersal phenomenon in biofilms. <i>Mathematical Biosciences</i> , 2019 , 307, 70-87.	3.9	13
89	Clinical implications of power toothbrushing on fluoride delivery: effects on biofilm plaque metabolism and physiology. <i>International Journal of Dentistry</i> , 2010 , 2010, 651869	1.9	13

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