

# Henk J Busscher

## List of Publications by Year in descending order

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566  
papers

33,653  
citations

3515

90  
h-index

8599

146  
g-index

573  
all docs

573  
docs citations

573  
times ranked

26615  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physico-chemistry of initial microbial adhesive interactions – its mechanisms and methods for study. FEMS Microbiology Reviews, 1999, 23, 179-230.	3.9	800
2	Measurement of the surface free energy of bacterial cell surfaces and its relevance for adhesion. Applied and Environmental Microbiology, 1984, 48, 980-983.	1.4	657
3	Biomaterial-Associated Infection: Locating the Finish Line in the Race for the Surface. Science Translational Medicine, 2012, 4, 153rv10.	5.8	575
4	Antimicrobial effects of positively charged surfaces on adhering Gram-positive and Gram-negative bacteria. Journal of Antimicrobial Chemotherapy, 2001, 48, 7-13.	1.3	483
5	Nanotechnology-based antimicrobials and delivery systems for biofilm-infection control. Chemical Society Reviews, 2019, 48, 428-446.	18.7	464
6	Microbiota restoration: natural and supplemented recovery of human microbial communities. Nature Reviews Microbiology, 2011, 9, 27-38.	13.6	461
7	In vitro and in vivo antimicrobial activity of covalently coupled quaternary ammonium silane coatings on silicone rubber. Biomaterials, 2002, 23, 1417-1423.	5.7	433
8	Electric double layer interactions in bacterial adhesion to surfaces. Surface Science Reports, 2002, 47, 1-32.	3.8	404
9	Bacterial adhesion to surface hydrophilic and hydrophobic contact lenses. Biomaterials, 2001, 22, 3217-3224.	5.7	361
10	An in vivo Study of the Influence of the Surface Roughness of Implants on the Microbiology of Supra- and Subgingival Plaque. Journal of Dental Research, 1993, 72, 1304-1309.	2.5	349
11	Physico-chemistry of initial microbial adhesive interactions – its mechanisms and methods for study. FEMS Microbiology Reviews, 1999, 23, 179-229.	3.9	343
12	Infection of orthopedic implants and the use of antibiotic-loaded bone cements: A review. Acta Orthopaedica, 2001, 72, 557-571.	1.4	307
13	How a fungus escapes the water to grow into the air. Current Biology, 1999, 9, 85-88.	1.8	298
14	Surface-Adaptive, Antimicrobially Loaded, Micellar Nanocarriers with Enhanced Penetration and Killing Efficiency in Staphylococcal Biofilms. ACS Nano, 2016, 10, 4779-4789.	7.3	293
15	Inhibition of initial adhesion of uropathogenic Enterococcus faecalis by biosurfactants from Lactobacillus isolates. Applied and Environmental Microbiology, 1996, 62, 1958-1963.	1.4	276
16	A Shape-Adaptive, Antibacterial-Coating of Immobilized Quaternary Ammonium Compounds Tethered on Hyperbranched Polyurea and its Mechanism of Action. Advanced Functional Materials, 2014, 24, 346-355.	7.8	271
17	Role of Extracellular DNA in Initial Bacterial Adhesion and Surface Aggregation. Applied and Environmental Microbiology, 2010, 76, 3405-3408.	1.4	265
18	Biomaterial-associated infection of gentamicin-loaded PMMA beads in orthopaedic revision surgery. Journal of Antimicrobial Chemotherapy, 2001, 47, 885-891.	1.3	258

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19	Backgrounds of antibiotic-loaded bone cement and prosthesis-related infection. <i>Biomaterials</i> , 2004, 25, 545-556.	5.7	254
20	Forces involved in bacterial adhesion to hydrophilic and hydrophobic surfaces. <i>Microbiology (United Kingdom)</i> , 2000, 144, 107-115.	6.7	245
21	Physico-chemistry from initial bacterial adhesion to surface-programmed biofilm growth. <i>Advances in Colloid and Interface Science</i> , 2018, 261, 1-14.	7.0	245
22	Microbial biofilm growth vs. tissue integration: "The race for the surface" experimentally studied. <i>Acta Biomaterialia</i> , 2009, 5, 1399-1404.	4.1	239
23	Viscoelasticity of biofilms and their recalcitrance to mechanical and chemical challenges. <i>FEMS Microbiology Reviews</i> , 2015, 39, 234-245.	3.9	237
24	Microbial Adhesion in Flow Displacement Systems. <i>Clinical Microbiology Reviews</i> , 2006, 19, 127-141.	5.7	234
25	Surface roughness, porosity and wettability of gentamicin-loaded bone cements and their antibiotic release. <i>Biomaterials</i> , 2000, 21, 1981-1987.	5.7	233
26	Microbial Adhesion to Poly(ethylene oxide) Brushes: Influence of Polymer Chain Length and Temperature. <i>Langmuir</i> , 2004, 20, 10949-10955.	1.6	226
27	A reference guide to microbial cell surface hydrophobicity based on contact angles. <i>Colloids and Surfaces B: Biointerfaces</i> , 1998, 11, 213-221.	2.5	210
28	Deposition Efficiency and Reversibility of Bacterial Adhesion under Flow. <i>Journal of Colloid and Interface Science</i> , 1995, 176, 329-341.	5.0	204
29	Plasma-treated polystyrene surfaces: model surfaces for studying cell-biomaterial interactions. <i>Biomaterials</i> , 2004, 25, 1735-1747.	5.7	201
30	Detection of Biomaterial-Associated Infections in Orthopaedic Joint Implants. <i>Clinical Orthopaedics and Related Research</i> , 2003, 413, 261-268.	0.7	196
31	Bacterial adhesion and growth on a polymer brush-coating. <i>Biomaterials</i> , 2008, 29, 4117-4121.	5.7	196
32	<i>Staphylococcus aureus</i> adherence to <i>Candida albicans</i> hyphae is mediated by the hyphal adhesin Als3p. <i>Microbiology (United Kingdom)</i> , 2012, 158, 2975-2986.	0.7	188
33	Nanoengineered Superhydrophobic Surfaces of Aluminum with Extremely Low Bacterial Adhesivity. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 12118-12129.	4.0	182
34	Influence of substratum wettability on the strength of adhesion of human fibroblasts. <i>Biomaterials</i> , 1992, 13, 897-904.	5.7	179
35	Interference in Initial Adhesion of Uropathogenic Bacteria and Yeasts to Silicone Rubber by A <i>Lactobacillus Acidophilus</i> Biosurfactant. <i>Journal of Medical Microbiology</i> , 1998, 47, 1081-1085.	0.7	178
36	Analysis of Bacterial Detachment from Substratum Surfaces by the Passage of Air-Liquid Interfaces. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2531-2537.	1.4	178

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37	Residual gentamicin-release from antibiotic-loaded polymethylmethacrylate beads after 5 years of implantation. <i>Biomaterials</i> , 2003, 24, 1829-1831.	5.7	172
38	How Do Bacteria Know They Are on a Surface and Regulate Their Response to an Adhering State?. <i>PLoS Pathogens</i> , 2012, 8, e1002440.	2.1	167
39	A Functional DNase I Coating to Prevent Adhesion of Bacteria and the Formation of Biofilm. <i>Advanced Functional Materials</i> , 2013, 23, 2843-2849.	7.8	165
40	Purification and characterization of a surface-binding protein from <i>Lactobacillus fermentum</i> RC-14 that inhibits adhesion of <i>Enterococcus faecalis</i> 1131. <i>FEMS Microbiology Letters</i> , 2000, 190, 177-180.	0.7	163
41	Influence of surface roughness on streptococcal adhesion forces to composite resins. <i>Dental Materials</i> , 2011, 27, 770-778.	1.6	160
42	The phenomenon of infection with abdominal wall reconstruction. <i>Biomaterials</i> , 2007, 28, 2314-2327.	5.7	158
43	Initial adhesion and surface growth of <i>Staphylococcus epidermidis</i> and <i>Pseudomonas aeruginosa</i> on biomedical polymers. , 2000, 50, 208-214.		156
44	Preparation and characterization of chemical gradient surfaces and their application for the study of cellular interaction phenomena. <i>Surface Science Reports</i> , 1997, 29, 3-30.	3.8	154
45	Magnetic targeting of surface-modified superparamagnetic iron oxide nanoparticles yields antibacterial efficacy against biofilms of gentamicin-resistant staphylococci. <i>Acta Biomaterialia</i> , 2012, 8, 2047-2055.	4.1	151
46	Soft tissue integration versus early biofilm formation on different dental implant materials. <i>Dental Materials</i> , 2014, 30, 716-727.	1.6	147
47	<i>Staphylococcus aureus</i> biofilm formation on different gentamicin-loaded polymethylmethacrylate bone cements. <i>Biomaterials</i> , 2001, 22, 1607-1611.	5.7	143
48	Bacterial Cell Surface Damage Due to Centrifugal Compaction. <i>Applied and Environmental Microbiology</i> , 2012, 78, 120-125.	1.4	138
49	Biodegradable vs non-biodegradable antibiotic delivery devices in the treatment of osteomyelitis. <i>Expert Opinion on Drug Delivery</i> , 2013, 10, 341-351.	2.4	138
50	Inhibition of adhesion of yeasts and bacteria by poly(ethylene oxide)-brushes on glass in a parallel plate flow chamber. <i>Microbiology (United Kingdom)</i> , 2003, 149, 3239-3246.	0.7	131
51	Gentamicin release from polymethylmethacrylate bone cements and <i>Staphylococcus aureus</i> biofilm formation. <i>Acta Orthopaedica</i> , 2000, 71, 625-629.	1.4	126
52	Effect of Cinnamon Oil on <i>icaA</i> Expression and Biofilm Formation by <i>Staphylococcus epidermidis</i> . <i>Applied and Environmental Microbiology</i> , 2009, 75, 6850-6855.	1.4	126
53	Impact of 3D Hierarchical Nanostructures on the Antibacterial Efficacy of a Bacteria-Triggered Self-Defensive Antibiotic Coating. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 20304-20313.	4.0	125
54	Current Developments in Antimicrobial Surface Coatings for Biomedical Applications. <i>Current Medicinal Chemistry</i> , 2015, 22, 2116-2129.	1.2	123

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55	Long-term biocompatibility, chemistry, and function of microencapsulated pancreatic islets. <i>Biomaterials</i> , 2003, 24, 305-312.	5.7	122
56	Pluronic <sup>®</sup> lysozyme conjugates as anti-adhesive and antibacterial bifunctional polymers for surface coating. <i>Biomaterials</i> , 2011, 32, 6333-6341.	5.7	122
57	<i>Streptococcus thermophilus</i> and its biosurfactants inhibit adhesion by <i>Candida</i> spp. on silicone rubber. <i>Applied and Environmental Microbiology</i> , 1997, 63, 3810-3817.	1.4	122
58	Comparison of Atomic Force Microscopy Interaction Forces between Bacteria and Silicon Nitride Substrata for Three Commonly Used Immobilization Methods. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5441-5446.	1.4	119
59	Microbial cell surface hydrophobicity The involvement of electrostatic interactions in microbial adhesion to hydrocarbons (MATH). <i>Journal of Microbiological Methods</i> , 1993, 18, 61-68.	0.7	118
60	X-ray photoelectron spectroscopy for the study of microbial cell surfaces. <i>Surface Science Reports</i> , 2000, 39, 1-24.	3.8	118
61	Orthodontic treatment with fixed appliances and biofilm formation <sup>®</sup> a potential public health threat?. <i>Clinical Oral Investigations</i> , 2014, 18, 1711-1718.	1.4	117
62	Development and use of a parallel-plate flow chamber for studying cellular adhesion to solid surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 1992, 26, 725-738.	3.0	115
63	Adhesion and spreading of human skin fibroblasts on physicochemically characterized gradient surfaces. <i>Journal of Biomedical Materials Research Part B</i> , 1995, 29, 1415-1423.	3.0	114
64	Pathogenesis and prevention of biomaterial centered infections. <i>Journal of Materials Science: Materials in Medicine</i> , 2002, 13, 717-722.	1.7	114
65	Specific Molecular Recognition and Nonspecific Contributions to Bacterial Interaction Forces. <i>Applied and Environmental Microbiology</i> , 2008, 74, 2559-2564.	1.4	114
66	Effects of surface conditioning on repair bond strengths of non-aged and aged microhybrid, nanohybrid, and nanofilled composite resins. <i>Clinical Oral Investigations</i> , 2011, 15, 625-633.	1.4	113
67	Retention of bacteria on a substratum surface with micro-patterned hydrophobicity. <i>FEMS Microbiology Letters</i> , 2000, 189, 311-315.	0.7	112
68	Antiadhesive Polymer Brush Coating Functionalized with Antimicrobial and RGD Peptides to Reduce Biofilm Formation and Enhance Tissue Integration. <i>Biomacromolecules</i> , 2014, 15, 2019-2026.	2.6	112
69	Eradication of Multidrug <sup>®</sup> Resistant <i>Staphylococcal</i> Infections by Light <sup>®</sup> Activatable Micellar Nanocarriers in a Murine Model. <i>Advanced Functional Materials</i> , 2017, 27, 1701974.	7.8	111
70	Biodeterioration of medical-grade silicone rubber used for voice prostheses: a SEM study. <i>Biomaterials</i> , 1993, 14, 459-464.	5.7	110
71	Evaluation of measures to decrease intra-operative bacterial contamination in orthopaedic implant surgery. <i>Journal of Hospital Infection</i> , 2006, 62, 174-180.	1.4	110
72	Comparison of Velocity Profiles for Different Flow Chamber Designs Used in Studies of Microbial Adhesion to Surfaces. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6280-6287.	1.4	109

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73	Synthesis and Characterization of Surface-Grafted Polyacrylamide Brushes and Their Inhibition of Microbial Adhesion. <i>Langmuir</i> , 2007, 23, 5120-5126.	1.6	108
74	The role of small-colony variants in failure to diagnose and treat biofilm infections in orthopedics. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2007, 78, 299-308.	1.2	107
75	A comparison of various methods to determine hydrophobic properties of streptococcal cell surfaces. <i>Journal of Microbiological Methods</i> , 1987, 6, 277-287.	0.7	106
76	Self-defensive antibiotic-loaded layer-by-layer coatings: Imaging of localized bacterial acidification and pH-triggering of antibiotic release. <i>Acta Biomaterialia</i> , 2017, 61, 66-74.	4.1	106
77	Fourier transform infrared spectroscopy studies of alginate-PLL capsules with varying compositions. <i>Journal of Biomedical Materials Research Part B</i> , 2003, 67A, 172-178.	3.0	105
78	3D-Printable Antimicrobial Composite Resins. <i>Advanced Functional Materials</i> , 2015, 25, 6756-6767.	7.8	105
79	Electric Current-Induced Detachment of <i>Staphylococcus epidermidis</i> Biofilms from Surgical Stainless Steel. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6871-6874.	1.4	104
80	Lipid-Based Antimicrobial Delivery-Systems for the Treatment of Bacterial Infections. <i>Frontiers in Chemistry</i> , 2019, 7, 872.	1.8	104
81	Implications of microbial adhesion to hydrocarbons for evaluating cell surface hydrophobicity 1. Zeta potentials of hydrocarbon droplets. <i>Colloids and Surfaces B: Biointerfaces</i> , 1995, 5, 111-116.	2.5	103
82	Immediate repair bond strengths of microhybrid, nanohybrid and nanofilled composites after different surface treatments. <i>Journal of Dentistry</i> , 2010, 38, 29-38.	1.7	100
83	Influence of extracellular polymeric substances on deposition and redeposition of <i>Pseudomonas aeruginosa</i> to surfaces. <i>Microbiology (United Kingdom)</i> , 2002, 148, 1161-1169.	0.7	100
84	Chemistry and biocompatibility of alginate-PLL capsules for immunoprotection of mammalian cells. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 60, 252-259.	3.0	99
85	In vitro methods for the evaluation of antimicrobial surface designs. <i>Acta Biomaterialia</i> , 2018, 70, 12-24.	4.1	97
86	A comparison of thermodynamic approaches to predict the adhesion of dairy microorganisms to solid substrata. <i>Cell Biophysics</i> , 1990, 17, 93-106.	0.4	96
87	The effect of mixing on gentamicin release from polymethylmethacrylate bone cements. <i>Acta Orthopaedica</i> , 2003, 74, 670-676.	1.4	95
88	Stability and effectiveness against bacterial adhesion of poly(ethylene oxide) coatings in biological fluids. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2005, 73B, 347-354.	1.6	95
89	Influence of Fluid Shear and Microbubbles on Bacterial Detachment from a Surface. <i>Applied and Environmental Microbiology</i> , 2005, 71, 3668-3673.	1.4	94
90	Effects of Quaternary Ammonium Silane Coatings on Mixed Fungal and Bacterial Biofilms on Tracheoesophageal Shunt Prostheses. <i>Applied and Environmental Microbiology</i> , 2006, 72, 3673-3677.	1.4	94

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91	Adsorption of Pluronic F-127 on Surfaces with Different Hydrophobicities Probed by Quartz Crystal Microbalance with Dissipation. <i>Langmuir</i> , 2009, 25, 6245-6249.	1.6	94
92	Electric field induced desorption of bacteria from a conditioning film covered substratum. <i>Biotechnology and Bioengineering</i> , 2001, 76, 395-399.	1.7	93
93	Critical factors in the translation of improved antimicrobial strategies for medical implants and devices. <i>Biomaterials</i> , 2013, 34, 9237-9243.	5.7	93
94	Comparison of contact angles and adhesion to hexadecane of urogenital, dairy, and poultry lactobacilli: effect of serial culture passages. <i>Applied and Environmental Microbiology</i> , 1992, 58, 1549-1553.	1.4	93
95	Hydrophobic and Electrostatic Cell Surface Properties of Thermophilic Dairy Streptococci. <i>Applied and Environmental Microbiology</i> , 1993, 59, 4305-4312.	1.4	92
96	A Distinguishable Role of eDNA in the Viscoelastic Relaxation of Biofilms. <i>MBio</i> , 2013, 4, e00497-13.	1.8	91
97	Implications of microbial adhesion to hydrocarbons for evaluating cell surface hydrophobicity 2. Adhesion mechanisms. <i>Colloids and Surfaces B: Biointerfaces</i> , 1995, 5, 117-126.	2.5	90
98	Electric block current induced detachment from surgical stainless steel and decreased viability of <i>Staphylococcus epidermidis</i> . <i>Biomaterials</i> , 2005, 26, 6731-6735.	5.7	90
99	Influence of Culture Heterogeneity in Cell Surface Charge on Adhesion and Biofilm Formation by <i>Enterococcus faecalis</i> . <i>Journal of Bacteriology</i> , 2006, 188, 2421-2426.	1.0	90
100	Bacterial factors influencing adhesion of <i>Pseudomonas aeruginosa</i> strains to a poly(ethylene oxide) brush. <i>Microbiology (United Kingdom)</i> , 2006, 152, 2673-2682.	0.7	90
101	Physicochemical and biochemical characterization of biosurfactants released by <i>Lactobacillus</i> strains. <i>Colloids and Surfaces B: Biointerfaces</i> , 1996, 8, 51-61.	2.5	89
102	Oxygen-Generating Nanofiber Cell Scaffolds with Antimicrobial Properties. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 67-73.	4.0	89
103	The inhibition of the adhesion of clinically isolated bacterial strains on multi-component cross-linked poly(ethylene glycol)-based polymer coatings. <i>Biomaterials</i> , 2007, 28, 4105-4112.	5.7	88
104	Adhesion Forces and Coaggregation between Vaginal <i>Staphylococci</i> and <i>Lactobacilli</i> . <i>PLoS ONE</i> , 2012, 7, e36917.	1.1	88
105	Surface properties of <i>Streptococcus salivarius</i> HB and nonfibrillar mutants: measurement of zeta potential and elemental composition with X-ray photoelectron spectroscopy. <i>Journal of Bacteriology</i> , 1988, 170, 2462-2466.	1.0	87
106	Controlled electrophoretic deposition of bacteria to surfaces for the design of biofilms. <i>Biotechnology and Bioengineering</i> , 2000, 67, 117-120.	1.7	86
107	In Vivo Evaluation of Bacterial Infection Involving Morphologically Different Surgical Meshes. <i>Annals of Surgery</i> , 2010, 251, 133-137.	2.1	85
108	'Soft-particle' analysis of the electrophoretic mobility of a fibrillated and non-fibrillated oral streptococcal strain: <i>Streptococcus salivarius</i> . <i>Biophysical Chemistry</i> , 1998, 74, 251-255.	1.5	84

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109	Direct Probing by Atomic Force Microscopy of the Cell Surface Softness of a Fibrillated and Nonfibrillated Oral Streptococcal Strain. <i>Biophysical Journal</i> , 2000, 78, 2668-2674.	0.2	84
110	Copal Bone Cement Is More Effective in Preventing Biofilm Formation than Palacos R-G. <i>Clinical Orthopaedics and Related Research</i> , 2008, 466, 1492-1498.	0.7	84
111	Bond-Strengthening in Staphylococcal Adhesion to Hydrophilic and Hydrophobic Surfaces Using Atomic Force Microscopy. <i>Langmuir</i> , 2008, 24, 12990-12994.	1.6	84
112	Probing molecular interactions and mechanical properties of microbial cell surfaces by atomic force microscopy. <i>Ultramicroscopy</i> , 2001, 86, 113-120.	0.8	83
113	Assessment of bacterial biosurfactant production through axisymmetric drop shape analysis by profile. <i>Applied Microbiology and Biotechnology</i> , 1991, 35, 766-770.	1.7	82
114	Hydrophobic recovery of repeatedly plasma-treated silicone rubber. Part 1. Storage in air. <i>Journal of Adhesion Science and Technology</i> , 1995, 9, 1263-1278.	1.4	82
115	Interfacial re-arrangement in initial microbial adhesion to surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2010, 15, 510-517.	3.4	82
116	Nanocarriers with conjugated antimicrobials to eradicate pathogenic biofilms evaluated in murine in vivo and human ex vivo infection models. <i>Acta Biomaterialia</i> , 2018, 79, 331-343.	4.1	82
117	Effects of cell surface damage on surface properties and adhesion of <i>Pseudomonas aeruginosa</i> . <i>Journal of Microbiological Methods</i> , 2001, 45, 95-101.	0.7	81
118	Adhesion and Viability of Two Enterococcal Strains on Covalently Grafted Chitosan and Chitosan/̢-Carrageenan Multilayers. <i>Biomacromolecules</i> , 2007, 8, 2960-2968.	2.6	80
119	Role of eDNA on the Adhesion Forces between <i>Streptococcus mutans</i> and Substratum Surfaces: Influence of Ionic Strength and Substratum Hydrophobicity. <i>Langmuir</i> , 2011, 27, 10113-10118.	1.6	80
120	Inhibition of <i>Streptococcus mutans</i> NS Adhesion to Glass with and without a Salivary Conditioning Film by Biosurfactant- Releasing <i>Streptococcus mitis</i> Strains. <i>Applied and Environmental Microbiology</i> , 2000, 66, 659-663.	1.4	79
121	Effect of pulsed ultrasound in combination with gentamicin on bacterial viability in biofilms on bone cements in vivo. <i>Journal of Applied Microbiology</i> , 2005, 99, 443-448.	1.4	78
122	Inhibition of initial adhesion of uropathogenic <i>Enterococcus faecalis</i> to solid substrata by an adsorbed biosurfactant layer from <i>Lactobacillus acidophilus</i> . <i>Urology</i> , 1997, 49, 790-794.	0.5	77
123	DNA-mediated bacterial aggregation is dictated by acid-base interactions. <i>Soft Matter</i> , 2011, 7, 2927.	1.2	77
124	Infection resistance of degradable versus non-degradable biomaterials: An assessment of the potential mechanisms. <i>Biomaterials</i> , 2013, 34, 8013-8017.	5.7	77
125	Bacterial interactions with nanostructured surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 38, 170-189.	3.4	77
126	Role of <i>Lactobacillus</i> cell surface hydrophobicity as probed by AFM in adhesion to surfaces at low and high ionic strength. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 41, 33-41.	2.5	76



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127	Statistical Analysis of Long- and Short-Range Forces Involved in Bacterial Adhesion to Substratum Surfaces as Measured Using Atomic Force Microscopy. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5065-5070.	1.4	76
128	Interfacial self-assembly of a <i>Schizophyllum commune</i> hydrophobin into an insoluble amphipathic protein membrane depends on surface hydrophobicity. <i>Colloids and Surfaces B: Biointerfaces</i> , 1995, 5, 189-195.	2.5	74
129	Tissue responses against immunisolating alginate-PLL capsules in the immediate posttransplant period. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 62, 430-437.	3.0	74
130	Analysis of the Interfacial Properties of Fibrillated and Nonfibrillated Oral Streptococcal Strains from Electrophoretic Mobility and Titration Measurements: A Evidence for the Shortcomings of the "Classical Soft-Particle Approach". <i>Langmuir</i> , 2005, 21, 11268-11282.	1.6	74
131	Determination of the Shear Force at the Balance between Bacterial Attachment and Detachment in Weak-Adherence Systems, Using a Flow Displacement Chamber. <i>Applied and Environmental Microbiology</i> , 2008, 74, 916-919.	1.4	73
132	Self-targeting, zwitterionic micellar dispersants enhance antibiotic killing of infectious biofilms An intravital imaging study in mice. <i>Science Advances</i> , 2020, 6, eabb1112.	4.7	73
133	Characterization of poly(ethylene oxide) brushes on glass surfaces and adhesion of <i>Staphylococcus epidermidis</i> . <i>Journal of Biomaterials Science, Polymer Edition</i> , 2003, 14, 313-324.	1.9	72
134	<i>Pseudomonas aeruginosa</i> biofilm formation and slime excretion on antibiotic-loaded bone cement. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2005, 76, 109-114.	1.2	72
135	Prevention of pin tract infection in external stainless steel fixator frames using electric current in a goat model. <i>Biomaterials</i> , 2007, 28, 2122-2126.	5.7	72
136	Comparison of the Microbial Composition of Voice Prosthesis Biofilms from Patients Requiring Frequent versus Infrequent Replacement. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2002, 111, 200-203.	0.6	71
137	Multiple linear regression analysis of bacterial deposition to polyurethane coatings after conditioning film formation in the marine environment. <i>Microbiology (United Kingdom)</i> , 2004, 150, 1779-1784.	0.7	71
138	Efficacy of natural antimicrobials in toothpaste formulations against oral biofilms in vitro. <i>Journal of Dentistry</i> , 2011, 39, 218-224.	1.7	71
139	In vitro Adhesion to Enamel and in vivo Colonization of Tooth Surfaces by Lactobacilli from a Bio "Yoghurt". <i>Caries Research</i> , 1999, 33, 403-404.	0.9	70
140	Effects of metal-on-metal wear on the host immune system and infection in hip arthroplasty. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 81, 526-534.	1.2	70
141	Artificial Channels in an Infectious Biofilm Created by Magnetic Nanoparticles Enhanced Bacterial Killing by Antibiotics. <i>Small</i> , 2019, 15, e1902313.	5.2	70
142	Bacterial Strains Isolated from Different Niches Can Exhibit Different Patterns of Adhesion to Substrata. <i>Applied and Environmental Microbiology</i> , 2004, 70, 3758-3760.	1.4	69
143	Polyacrylamide brush coatings preventing microbial adhesion to silicone rubber. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 64, 297-301.	2.5	69
144	Nanoscale Cell Wall Deformation Impacts Long-Range Bacterial Adhesion Forces on Surfaces. <i>Applied and Environmental Microbiology</i> , 2014, 80, 637-643.	1.4	69

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145	Probing Colloidâ€™Substratum Contact Stiffness by Acoustic Sensing in a Liquid Phase. <i>Analytical Chemistry</i> , 2012, 84, 4504-4512.	3.2	68
146	Comparison of methods to evaluate bacterial contact-killing materials. <i>Acta Biomaterialia</i> , 2017, 59, 139-147.	4.1	67
147	Effect of probiotic bacteria on prevalence of yeasts in oropharyngeal biofilms on silicone rubber voice prostheses in vitro. <i>Journal of Medical Microbiology</i> , 2000, 49, 713-718.	0.7	67
148	Emergent heterogeneous microenvironments in biofilms: substratum surface heterogeneity and bacterial adhesion force-sensing. <i>FEMS Microbiology Reviews</i> , 2018, 42, 259-272.	3.9	66
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