

# Henk J Busscher

## List of Publications by Citations

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563  
papers

27,966  
citations

84  
h-index

133  
g-index

569  
ext. papers

30,579  
ext. citations

6.3  
avg, IF

7.05  
L-index

#	Paper	IF	Citations
563	Physico-chemistry of initial microbial adhesive interactions--its mechanisms and methods for study. <i>FEMS Microbiology Reviews</i> , <b>1999</b> , 23, 179-230	15.1	722
562	Measurement of the surface free energy of bacterial cell surfaces and its relevance for adhesion. <i>Applied and Environmental Microbiology</i> , <b>1984</b> , 48, 980-3	4.8	549
561	Biomaterial-associated infection: locating the finish line in the race for the surface. <i>Science Translational Medicine</i> , <b>2012</b> , 4, 153rv10	17.5	455
560	Antimicrobial effects of positively charged surfaces on adhering Gram-positive and Gram-negative bacteria. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2001</b> , 48, 7-13	5.1	404
559	In vitro and in vivo antimicrobial activity of covalently coupled quaternary ammonium silane coatings on silicone rubber. <i>Biomaterials</i> , <b>2002</b> , 23, 1417-23	15.6	395
558	Microbiota restoration: natural and supplemented recovery of human microbial communities. <i>Nature Reviews Microbiology</i> , <b>2011</b> , 9, 27-38	22.2	365
557	Electric double layer interactions in bacterial adhesion to surfaces. <i>Surface Science Reports</i> , <b>2002</b> , 47, 1-32	12.9	348
556	Bacterial adhesion to surface hydrophilic and hydrophobic contact lenses. <i>Biomaterials</i> , <b>2001</b> , 22, 3217-24	5.6	328
555	An in vivo study of the influence of the surface roughness of implants on the microbiology of supra- and subgingival plaque. <i>Journal of Dental Research</i> , <b>1993</b> , 72, 1304-9	8.1	307
554	How a fungus escapes the water to grow into the air. <i>Current Biology</i> , <b>1999</b> , 9, 85-8	6.3	278
553	Infection of orthopedic implants and the use of antibiotic-loaded bone cements. A review. <i>Acta Orthopaedica</i> , <b>2001</b> , 72, 557-71		272
552	Nanotechnology-based antimicrobials and delivery systems for biofilm-infection control. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 428-446	58.5	262
551	Physico-chemistry of initial microbial adhesive interactions ¶its mechanisms and methods for study. <i>FEMS Microbiology Reviews</i> , <b>1999</b> , 23, 179-229	15.1	234
550	Inhibition of initial adhesion of uropathogenic <i>Enterococcus faecalis</i> by biosurfactants from <i>Lactobacillus</i> isolates. <i>Applied and Environmental Microbiology</i> , <b>1996</b> , 62, 1958-63	4.8	229
549	Backgrounds of antibiotic-loaded bone cement and prosthesis-related infection. <i>Biomaterials</i> , <b>2004</b> , 25, 545-56	15.6	228
548	A Shape-Adaptive, Antibacterial-Coating of Immobilized Quaternary-Ammonium Compounds Tethered on Hyperbranched Polyurea and its Mechanism of Action. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 346-355	15.6	219
547	Forces involved in bacterial adhesion to hydrophilic and hydrophobic surfaces. <i>Microbiology (United Kingdom)</i> , <b>2008</b> , 154, 3122-3133	2.9	218

546	Biomaterial-associated infection of gentamicin-loaded PMMA beads in orthopaedic revision surgery. <i>Journal of Antimicrobial Chemotherapy</i> , <b>2001</b> , 47, 885-91	5.1	218
545	Microbial adhesion in flow displacement systems. <i>Clinical Microbiology Reviews</i> , <b>2006</b> , 19, 127-41	34	216
544	Surface-Adaptive, Antimicrobially Loaded, Micellar Nanocarriers with Enhanced Penetration and Killing Efficiency in Staphylococcal Biofilms. <i>ACS Nano</i> , <b>2016</b> , 10, 4779-89	16.7	211
543	Microbial adhesion to poly(ethylene oxide) brushes: influence of polymer chain length and temperature. <i>Langmuir</i> , <b>2004</b> , 20, 10949-55	4	206
542	Surface roughness, porosity and wettability of gentamicin-loaded bone cements and their antibiotic release. <i>Biomaterials</i> , <b>2000</b> , 21, 1981-7	15.6	205
541	Microbial biofilm growth vs. tissue integration: "the race for the surface" experimentally studied. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 1399-404	10.8	200
540	Role of extracellular DNA in initial bacterial adhesion and surface aggregation. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 3405-8	4.8	198
539	A reference guide to microbial cell surface hydrophobicity based on contact angles. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>1998</b> , 11, 213-221	6	190
538	Deposition Efficiency and Reversibility of Bacterial Adhesion under Flow. <i>Journal of Colloid and Interface Science</i> , <b>1995</b> , 176, 329-341	9.3	189
537	Plasma-treated polystyrene surfaces: model surfaces for studying cell-biomaterial interactions. <i>Biomaterials</i> , <b>2004</b> , 25, 1735-47	15.6	184
536	Bacterial adhesion and growth on a polymer brush-coating. <i>Biomaterials</i> , <b>2008</b> , 29, 4117-21	15.6	178
535	Analysis of bacterial detachment from substratum surfaces by the passage of air-liquid interfaces. <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 2531-7	4.8	173
534	Viscoelasticity of biofilms and their recalcitrance to mechanical and chemical challenges. <i>FEMS Microbiology Reviews</i> , <b>2015</b> , 39, 234-45	15.1	165
533	Detection of biomaterial-associated infections in orthopaedic joint implants. <i>Clinical Orthopaedics and Related Research</i> , <b>2003</b> , 261-8	2.2	165
532	Influence of substratum wettability on the strength of adhesion of human fibroblasts. <i>Biomaterials</i> , <b>1992</b> , 13, 897-904	15.6	159
531	Interference in initial adhesion of uropathogenic bacteria and yeasts to silicone rubber by a Lactobacillus acidophilus biosurfactant. <i>Journal of Medical Microbiology</i> , <b>1998</b> , 47, 1081-5	3.2	153
530	Staphylococcus aureus adherence to Candida albicans hyphae is mediated by the hyphal adhesin Als3p. <i>Microbiology (United Kingdom)</i> , <b>2012</b> , 158, 2975-2986	2.9	151
529	Residual gentamicin-release from antibiotic-loaded polymethylmethacrylate beads after 5 years of implantation. <i>Biomaterials</i> , <b>2003</b> , 24, 1829-31	15.6	151

528	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> , <b>2000</b> , 190, 177-80	2.9	145
527	The phenomenon of infection with abdominal wall reconstruction. <i>Biomaterials</i> , <b>2007</b> , 28, 2314-27	15.6	142
526	Preparation and characterization of chemical gradient surfaces and their application for the study of cellular interaction phenomena. <i>Surface Science Reports</i> , <b>1997</b> , 29, 3-30	12.9	138
525	Initial adhesion and surface growth of <i>Staphylococcus epidermidis</i> and <i>Pseudomonas aeruginosa</i> on biomedical polymers. <i>Journal of Biomedical Materials Research Part B</i> , <b>2000</b> , 50, 208-14		137
524	How do bacteria know they are on a surface and regulate their response to an adhering state?. <i>PLoS Pathogens</i> , <b>2012</b> , 8, e1002440	7.6	132
523	<i>Staphylococcus aureus</i> biofilm formation on different gentamicin-loaded polymethylmethacrylate bone cements. <i>Biomaterials</i> , <b>2001</b> , 22, 1607-11	15.6	131
522	Influence of surface roughness on streptococcal adhesion forces to composite resins. <i>Dental Materials</i> , <b>2011</b> , 27, 770-8	5.7	130
521	Physico-chemistry from initial bacterial adhesion to surface-programmed biofilm growth. <i>Advances in Colloid and Interface Science</i> , <b>2018</b> , 261, 1-14	14.3	129
520	Magnetic targeting of surface-modified superparamagnetic iron oxide nanoparticles yields antibacterial efficacy against biofilms of gentamicin-resistant staphylococci. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 2047-55	10.8	128
519	A Functional DNase I Coating to Prevent Adhesion of Bacteria and the Formation of Biofilm. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 2843-2849	15.6	125
518	Nanoengineered Superhydrophobic Surfaces of Aluminum with Extremely Low Bacterial Adhesivity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 12118-12129	9.5	124
517	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> , <b>2003</b> , 149, 3239-3246	2.9	123
516	Soft tissue integration versus early biofilm formation on different dental implant materials. <i>Dental Materials</i> , <b>2014</b> , 30, 716-27	5.7	122
515	Long-term biocompatibility, chemistry, and function of microencapsulated pancreatic islets. <i>Biomaterials</i> , <b>2003</b> , 24, 305-12	15.6	115
514	Effect of cinnamon oil on <i>icaA</i> expression and biofilm formation by <i>Staphylococcus epidermidis</i> . <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 6850-5	4.8	109
513	Gentamicin release from polymethylmethacrylate bone cements and <i>Staphylococcus aureus</i> biofilm formation. <i>Acta Orthopaedica</i> , <b>2000</b> , 71, 625-9		109
512	Biodegradable vs non-biodegradable antibiotic delivery devices in the treatment of osteomyelitis. <i>Expert Opinion on Drug Delivery</i> , <b>2013</b> , 10, 341-51	8	106
511	Pluronic-lysozyme conjugates as anti-adhesive and antibacterial bifunctional polymers for surface coating. <i>Biomaterials</i> , <b>2011</b> , 32, 6333-41	15.6	106

510	Specific molecular recognition and nonspecific contributions to bacterial interaction forces. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 2559-64	4.8	105
509	Microbial cell surface hydrophobicity The involvement of electrostatic interactions in microbial adhesion to hydrocarbons (MATH). <i>Journal of Microbiological Methods</i> , <b>1993</b> , 18, 61-68	2.8	104
508	Biodeterioration of medical-grade silicone rubber used for voice prostheses: a SEM study. <i>Biomaterials</i> , <b>1993</b> , 14, 459-64	15.6	104
507	Streptococcus thermophilus and its biosurfactants inhibit adhesion by Candida spp. on silicone rubber. <i>Applied and Environmental Microbiology</i> , <b>1997</b> , 63, 3810-7	4.8	104
506	Synthesis and characterization of surface-grafted polyacrylamide brushes and their inhibition of microbial adhesion. <i>Langmuir</i> , <b>2007</b> , 23, 5120-6	4	103
505	X-ray photoelectron spectroscopy for the study of microbial cell surfaces. <i>Surface Science Reports</i> , <b>2000</b> , 39, 1-24	12.9	102
504	Retention of bacteria on a substratum surface with micro-patterned hydrophobicity. <i>FEMS Microbiology Letters</i> , <b>2000</b> , 189, 311-5	2.9	102
503	Implications of microbial adhesion to hydrocarbons for evaluating cell surface hydrophobicity 1. Zeta potentials of hydrocarbon droplets. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>1995</b> , 5, 111-116	6	102
502	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> , <b>2004</b> , 70, 5441-6	4.8	101
501	Adhesion and spreading of human skin fibroblasts on physicochemically characterized gradient surfaces. <i>Journal of Biomedical Materials Research Part B</i> , <b>1995</b> , 29, 1415-23		100
500	Influence of extracellular polymeric substances on deposition and redeposition of Pseudomonas aeruginosa to surfaces. <i>Microbiology (United Kingdom)</i> , <b>2002</b> , 148, 1161-1169	2.9	99
499	Impact of 3D Hierarchical Nanostructures on the Antibacterial Efficacy of a Bacteria-Triggered Self-Defensive Antibiotic Coating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 20304-13	9.5	98
498	Current Developments in Antimicrobial Surface Coatings for Biomedical Applications. <i>Current Medicinal Chemistry</i> , <b>2015</b> , 22, 2116-29	4.3	98
497	A comparison of various methods to determine hydrophobic properties of streptococcal cell surfaces. <i>Journal of Microbiological Methods</i> , <b>1987</b> , 6, 277-287	2.8	97
496	Pathogenesis and prevention of biomaterial centered infections. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2002</b> , 13, 717-22	4.5	95
495	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> , <b>1992</b> , 26, 725-38		95
494	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> , <b>2005</b> , 73, 347-54	3.5	93
493	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> , <b>2007</b> , 78, 299-308	4.3	92

492	Comparison of velocity profiles for different flow chamber designs used in studies of microbial adhesion to surfaces. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 6280-7	4.8	92
491	Antiadhesive polymer brush coating functionalized with antimicrobial and RGD peptides to reduce biofilm formation and enhance tissue integration. <i>Biomacromolecules</i> , <b>2014</b> , 15, 2019-26	6.9	91
490	Chemistry and biocompatibility of alginate-PLL capsules for immunoprotection of mammalian cells. <i>Journal of Biomedical Materials Research Part B</i> , <b>2002</b> , 60, 252-9		90
489	Fourier transform infrared spectroscopy studies of alginate-PLL capsules with varying compositions. <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 67, 172-8		90
488	Electric current-induced detachment of <i>Staphylococcus epidermidis</i> biofilms from surgical stainless steel. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 6871-4	4.8	88
487	Eradication of Multidrug-Resistant Staphylococcal Infections by Light-Activatable Micellar Nanocarriers in a Murine Model. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1701974	15.6	87
486	Effects of surface conditioning on repair bond strengths of non-aged and aged microhybrid, nanohybrid, and nanofilled composite resins. <i>Clinical Oral Investigations</i> , <b>2011</b> , 15, 625-33	4.2	87
485	Effects of quaternary ammonium silane coatings on mixed fungal and bacterial biofilms on tracheoesophageal shunt prostheses. <i>Applied and Environmental Microbiology</i> , <b>2006</b> , 72, 3673-7	4.8	87
484	The effect of mixing on gentamicin release from polymethylmethacrylate bone cements. <i>Acta Orthopaedica</i> , <b>2003</b> , 74, 670-6		87
483	Implications of microbial adhesion to hydrocarbons for evaluating cell surface hydrophobicity 2. Adhesion mechanisms. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>1995</b> , 5, 117-126	6	87
482	Adsorption of pluronic F-127 on surfaces with different hydrophobicities probed by quartz crystal microbalance with dissipation. <i>Langmuir</i> , <b>2009</b> , 25, 6245-9	4	85
481	Evaluation of measures to decrease intra-operative bacterial contamination in orthopaedic implant surgery. <i>Journal of Hospital Infection</i> , <b>2006</b> , 62, 174-80	6.9	85
480	A comparison of thermodynamic approaches to predict the adhesion of dairy microorganisms to solid substrata. <i>Cell Biophysics</i> , <b>1990</b> , 17, 93-106		85
479	3D-Printable Antimicrobial Composite Resins. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6756-6767	15.6	83
478	The inhibition of the adhesion of clinically isolated bacterial strains on multi-component cross-linked poly(ethylene glycol)-based polymer coatings. <i>Biomaterials</i> , <b>2007</b> , 28, 4105-12	15.6	83
477	Bacterial cell surface damage due to centrifugal compaction. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 120-5	4.8	82
476	Electric field induced desorption of bacteria from a conditioning film covered substratum. <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 76, 395-9	4.9	82
475	Physicochemical and biochemical characterization of biosurfactants released by <i>Lactobacillus</i> strains. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>1996</b> , 8, 51-61	6	82

474	Bacterial factors influencing adhesion of <i>Pseudomonas aeruginosa</i> strains to a poly(ethylene oxide) brush. <i>Microbiology (United Kingdom)</i> , <b>2006</b> , 152, 2673-2682	2.9	81
473	Direct probing by atomic force microscopy of the cell surface softness of a fibrillated and nonfibrillated oral streptococcal strain. <i>Biophysical Journal</i> , <b>2000</b> , 78, 2668-74	2.9	80
472	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> , <b>1988</b> , 170, 2462-6	3.5	80
471	Interfacial re-arrangement in initial microbial adhesion to surfaces. <i>Current Opinion in Colloid and Interface Science</i> , <b>2010</b> , 15, 510-517	7.6	79
470	Influence of culture heterogeneity in cell surface charge on adhesion and biofilm formation by <i>Enterococcus faecalis</i> . <i>Journal of Bacteriology</i> , <b>2006</b> , 188, 2421-6	3.5	79
469	Influence of fluid shear and microbubbles on bacterial detachment from a surface. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 3668-73	4.8	77
468	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> , <b>1992</b> , 58, 1549-53	4.8	77
467	Immediate repair bond strengths of microhybrid, nanohybrid and nanofilled composites after different surface treatments. <i>Journal of Dentistry</i> , <b>2010</b> , 38, 29-38	4.8	76
466	Hydrophobic and electrostatic cell surface properties of thermophilic dairy streptococci. <i>Applied and Environmental Microbiology</i> , <b>1993</b> , 59, 4305-12	4.8	76
465	Electric block current induced detachment from surgical stainless steel and decreased viability of <i>Staphylococcus epidermidis</i> . <i>Biomaterials</i> , <b>2005</b> , 26, 6731-5	15.6	75
464	Orthodontic treatment with fixed appliances and biofilm formation--a potential public health threat?. <i>Clinical Oral Investigations</i> , <b>2014</b> , 18, 1711-8	4.2	74
463	Probing molecular interactions and mechanical properties of microbial cell surfaces by atomic force microscopy. <i>Ultramicroscopy</i> , <b>2001</b> , 86, 113-20	3.1	74
462	Effects of cell surface damage on surface properties and adhesion of <i>Pseudomonas aeruginosa</i> . <i>Journal of Microbiological Methods</i> , <b>2001</b> , 45, 95-101	2.8	74
461	In vivo evaluation of bacterial infection involving morphologically different surgical meshes. <i>Annals of Surgery</i> , <b>2010</b> , 251, 133-7	7.8	73
460	Adhesion forces and coaggregation between vaginal staphylococci and lactobacilli. <i>PLoS ONE</i> , <b>2012</b> , 7, e36917	3.7	73
459	Adhesion and viability of two enterococcal strains on covalently grafted chitosan and chitosan/kappa-carrageenan multilayers. <i>Biomacromolecules</i> , <b>2007</b> , 8, 2960-8	6.9	72
458	Controlled electrophoretic deposition of bacteria to surfaces for the design of biofilms. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 67, 117-20	4.9	72
457	Critical factors in the translation of improved antimicrobial strategies for medical implants and devices. <i>Biomaterials</i> , <b>2013</b> , 34, 9237-43	15.6	71

456	Oxygen-generating nanofiber cell scaffolds with antimicrobial properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 67-73	9.5	71
455	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> , <b>2011</b> , 27, 10113-8	4	71
454	Tissue responses against immunisolating alginate-PLL capsules in the immediate posttransplant period. <i>Journal of Biomedical Materials Research Part B</i> , <b>2002</b> , 62, 430-7		71
453	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> , <b>1995</b> , 5, 189-195	6	71
452	Soft-particle analysis of the electrophoretic mobility of a fibrillated and non-fibrillated oral streptococcal strain: <i>Streptococcus salivarius</i> . <i>Biophysical Chemistry</i> , <b>1998</b> , 74, 251-5	3.5	70
451	Hydrophobic recovery of repeatedly plasma-treated silicone rubber. Part 1. Storage in air. <i>Journal of Adhesion Science and Technology</i> , <b>1995</b> , 9, 1263-1278	2	70
450	Bond-strengthening in staphylococcal adhesion to hydrophilic and hydrophobic surfaces using atomic force microscopy. <i>Langmuir</i> , <b>2008</b> , 24, 12990-4	4	69
449	In vitro methods for the evaluation of antimicrobial surface designs. <i>Acta Biomaterialia</i> , <b>2018</b> , 70, 12-24	10.8	68
448	A distinguishable role of eDNA in the viscoelastic relaxation of biofilms. <i>MBio</i> , <b>2013</b> , 4, e00497-13	7.8	68
447	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> , <b>2000</b> , 66, 659-63	4.8	68
446	Assessment of bacterial biosurfactant production through axisymmetric drop shape analysis by profile. <i>Applied Microbiology and Biotechnology</i> , <b>1991</b> , 35, 766-770	5.7	68
445	Analysis of the interfacial properties of fibrillated and nonfibrillated oral streptococcal strains from electrophoretic mobility and titration measurements: evidence for the shortcomings of the classical soft-particle approach. <i>Langmuir</i> , <b>2005</b> , 21, 11268-82	4	67
444	Multiple linear regression analysis of bacterial deposition to polyurethane coatings after conditioning film formation in the marine environment. <i>Microbiology (United Kingdom)</i> , <b>2004</b> , 150, 1779-1784	2.9	67
443	Effect of pulsed ultrasound in combination with gentamicin on bacterial viability in biofilms on bone cements in vivo. <i>Journal of Applied Microbiology</i> , <b>2005</b> , 99, 443-8	4.7	67
442	Role of lactobacillus cell surface hydrophobicity as probed by AFM in adhesion to surfaces at low and high ionic strength. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2005</b> , 41, 33-41	6	66
441	Self-defensive antibiotic-loaded layer-by-layer coatings: Imaging of localized bacterial acidification and pH-triggering of antibiotic release. <i>Acta Biomaterialia</i> , <b>2017</b> , 61, 66-74	10.8	65
440	<i>Pseudomonas aeruginosa</i> biofilm formation and slime excretion on antibiotic-loaded bone cement. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , <b>2005</b> , 76, 109-14	4.3	65
439	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> , <b>2011</b> , 77, 5065-70	4.8	64



438	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> , <b>1997</b> , 49, 790-4	1.6	64
437	Comparison of the microbial composition of voice prosthesis biofilms from patients requiring frequent versus infrequent replacement. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , <b>2002</b> , 111, 200-3 <sup>2.1</sup>		63
436	Probing colloid-substratum contact stiffness by acoustic sensing in a liquid phase. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 4504-12	7.8	62
435	Prevention of pin tract infection in external stainless steel fixator frames using electric current in a goat model. <i>Biomaterials</i> , <b>2007</b> , 28, 2122-6	15.6	62
434	Copal bone cement is more effective in preventing biofilm formation than Palacos R-G. <i>Clinical Orthopaedics and Related Research</i> , <b>2008</b> , 466, 1492-8	2.2	62
433	Polyacrylamide brush coatings preventing microbial adhesion to silicone rubber. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2008</b> , 64, 297-301	6	62
432	Characterization of poly(ethylene oxide) brushes on glass surfaces and adhesion of <i>Staphylococcus epidermidis</i> . <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2003</b> , 14, 313-24	3.5	62
431	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> , <b>2010</b> , 81, 526-34	4.3	60
430	Bacterial strains isolated from different niches can exhibit different patterns of adhesion to substrata. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 3758-60	4.8	60
429	In vitro adhesion to enamel and in vivo colonization of tooth surfaces by <i>Lactobacilli</i> from a bio-yoghurt. <i>Caries Research</i> , <b>1999</b> , 33, 403-4	4.2	60
428	Infection resistance of degradable versus non-degradable biomaterials: an assessment of the potential mechanisms. <i>Biomaterials</i> , <b>2013</b> , 34, 8013-7	15.6	59
427	Positively charged biomaterials exert antimicrobial effects on gram-negative bacilli in rats. <i>Biomaterials</i> , <b>2003</b> , 24, 2707-10	15.6	59
426	A comparison of the surface activity of the fungal hydrophobin SC3p with those of other proteins. <i>Biophysical Chemistry</i> , <b>1996</b> , 57, 253-60	3.5	59
425	The influence of surface-free energy on supra- and subgingival plaque microbiology. An in vivo study on implants. <i>Journal of Periodontology</i> , <b>1994</b> , 65, 162-7	4.6	59
424	Properties of oral streptococci relevant for adherence: Zeta potential, surface free energy and elemental composition. <i>Colloids and Surfaces</i> , <b>1988</b> , 32, 297-305		59
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12	Mikrobielle Werkstoffzerstörung [Schadensfälle und Gegenmaßnahmen für Kunst- und Naturstoffe. Mikrobiologische Zerstörung von Silikon-Elastomeren. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>1994</b> , 45, 170-171	1.6	1
11	On-demand pulling-off of magnetic nanoparticles from biomaterial surfaces through implant-associated infectious biofilms for enhanced antibiotic efficacy. <i>Materials Science and Engineering C</i> , <b>2021</b> , 131, 112526	8.3	1
10	XPS Analyses of Plasma-Treated Silicone Rubber <b>1996</b> , 89-96		1
9	Uropathogenic <i>Escherichia coli</i> adhere to urinary catheters without using fimbriae		1
8	Clearance of ESKAPE Pathogens from Blood Using Bacterially Activated Macrophage Membrane-Coated Silicon Nanowires. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2007613	15.6	1
7	Initial adhesion and surface growth of <i>Staphylococcus epidermidis</i> and <i>Pseudomonas aeruginosa</i> on biomedical polymers <b>2000</b> , 50, 208		1



6	Adhesion, Immobilization, and Retention of Microorganisms on Solid Substrata		1
5	Activation of a passive, mesoporous silica nanoparticle layer through attachment of bacterially-derived carbon-quantum-dots for protection and functional enhancement of probiotics. <i>Materials Today Bio</i> , <b>2022</b> , 100293	9.9	1
4	Recent advances and future challenges in the use of nanoparticles for the dispersal of infectious biofilms. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 84, 208-218	9.1	0
3	Staphylococcal Colonization of E-Beam Patterned Surfaces. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1184-1185	5.1	1
2	Specific and Nonspecific Interactions between Salivary Proteins and <i>Streptococcus mutans</i> . <i>ACS Symposium Series</i> , <b>2012</b> , 355-371	0.4	
1	Inhibitive Effect of Antibiotic-Loaded Beads to Cure Chronic Osteomyelitis in Developing Country: Hand-made vs Commercial Beads. <i>IFMBE Proceedings</i> , <b>2007</b> , 113-117	0.2	