Henk J Busscher

List of Publications by Year
in descending order

567 papers	33,653 citations	3525 90 h-index	8618 146 g-index
573 all docs	573 docs citations	573 times ranked	26615 citing authors

#	Article	IF	Citations
1	Water in bacterial biofilms: pores and channels, storage and transport functions. Critical Reviews in Microbiology, 2022, 48, 283-302.	2.7	38
2	Self-targeting of zwitterion-based platforms for nano-antimicrobials and nanocarriers. Journal of Materials Chemistry B, 2022, 10, 2316-2322.	2.9	6
3	A Guanosineâ€Quadruplex Hydrogel as Cascade Reaction Container Consuming Endogenous Glucose for Infected Wound Treatmentâ€"A Study in Diabetic Mice. Advanced Science, 2022, 9, e2103485.	5.6	45
4	In-biofilm generation of nitric oxide using a magnetically-targetable cascade-reaction container for eradication of infectious biofilms. Bioactive Materials, 2022, 14, 321-334.	8.6	13
5	Activation of a passive, mesoporous silica nanoparticle layer through attachment of bacterially-derived carbon-quantum-dots for protection and functional enhancement of probiotics. Materials Today Bio, 2022, 15, 100293.	2.6	7
6	A self-cleaning surface based on UV-activatable, AgCl micropumps for bacterial killing and removal. Chemical Communications, 2022, 58, 7030-7033.	2.2	2
7	A Comparison of the Adaptive Response of Staphylococcus aureus vs. Streptococcus mutans and the Development of Chlorhexidine Resistance. Frontiers in Microbiology, 2022, 13, .	1.5	4
8	Possibilities and impossibilities of magnetic nanoparticle use in the control of infectious biofilms. Journal of Materials Science and Technology, 2021, 69, 69-78.	5.6	19
9	Thermo-resistance of ESKAPE-panel pathogens, eradication and growth prevention of an infectious biofilm by photothermal, polydopamine-nanoparticles in vitro. Nanomedicine: Nanotechnology, Biology, and Medicine, 2021, 32, 102324.	1.7	7
10	Interfacial interactions between protective, surface-engineered shells and encapsulated bacteria with different cell surface composition. Nanoscale, 2021, 13, 7220-7233.	2.8	7
11	Clearance of ESKAPE Pathogens from Blood Using Bacterially Activated Macrophage Membraneâ€Coated Silicon Nanowires. Advanced Functional Materials, 2021, 31, 2007613.	7.8	9
12	Influence of interaction between surface-modified magnetic nanoparticles with infectious biofilm components in artificial channel digging and biofilm eradication by antibiotics in vitro and in vivo. Nanoscale, 2021, 13, 4644-4653.	2.8	16
13	PAMAM dendrimers with dual-conjugated vancomycin and Ag-nanoparticles do not induce bacterial resistance and kill vancomycin-resistant Staphylococci. Acta Biomaterialia, 2021, 123, 230-243.	4.1	28
14	Escherichia coli Colonization of Intestinal Epithelial Layers In Vitro in the Presence of Encapsulated Bifidobacterium breve for Its Protection against Gastrointestinal Fluids and Antibiotics. ACS Applied Materials & Interfaces, 2021, 13, 15973-15982.	4.0	22
15	X-Ray Photoelectron Spectroscopy on Microbial Cell Surfaces: A Forgotten Method for the Characterization of Microorganisms Encapsulated With Surface-Engineered Shells. Frontiers in Chemistry, 2021, 9, 666159.	1.8	11
16	Antimicrobial loading of nanotubular titanium surfaces favoring surface coverage by mammalian cells over bacterial colonization. Materials Science and Engineering C, 2021, 123, 112021.	3.8	18
17	Carbon Quantum Dots Derived from Different Carbon Sources for Antibacterial Applications. Antibiotics, 2021, 10, 623.	1.5	48
18	Liposomes with Water as a pHâ€Responsive Functionality for Targeting of Acidic Tumor and Infection Sites. Angewandte Chemie, 2021, 133, 17855-17860.	1.6	10

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19	Liposomes with Water as a pHâ€Responsive Functionality for Targeting of Acidic Tumor and Infection Sites. Angewandte Chemie - International Edition, 2021, 60, 17714-17719.	7.2	26
20	Recent advances and future challenges in the use of nanoparticles for the dispersal of infectious biofilms. Journal of Materials Science and Technology, 2021, 84, 208-218.	5.6	12
21	Synergy between â€œProbioticâ€•Carbon Quantum Dots and Ciprofloxacin in Eradicating Infectious Biofilms and Their Biosafety in Mice. Pharmaceutics, 2021, 13, 1809.	2.0	2
22	On-demand pulling-off of magnetic nanoparticles from biomaterial surfaces through implant-associated infectious biofilms for enhanced antibiotic efficacy. Materials Science and Engineering C, 2021, 131, 112526.	3.8	7
23	Encapsulation of Photothermal Nanoparticles in Stealth and pH-Responsive Micelles for Eradication of Infectious Biofilms In Vitro and In Vivo. Nanomaterials, 2021, 11, 3180.	1.9	6
24	Accepting higher morbidity in exchange for sacrificing fewer animals in studies developing novel infection-control strategies. Biomaterials, 2020, 232, 119737.	5.7	16
25	Homogeneous Distribution of Magnetic, Antimicrobial-Carrying Nanoparticles through an Infectious Biofilm Enhances Biofilm-Killing Efficacy. ACS Biomaterials Science and Engineering, 2020, 6, 205-212.	2.6	31
26	Two-Stage Interpretation of Changes in TEER of Intestinal Epithelial Layers Protected by Adhering Bifidobacteria During E. coli Challenges. Frontiers in Microbiology, 2020, 11, 599555.	1.5	15
27	Self-targeting, zwitterionic micellar dispersants enhance antibiotic killing of infectious biofilmsâ€”An intravital imaging study in mice. Science Advances, 2020, 6, eabb1112.	4.7	73
28	Visualization of Bacterial Colonization and Cellular Layers in a Gut-on-a-Chip System Using Optical Coherence Tomography. Microscopy and Microanalysis, 2020, 26, 1211-1219.	0.2	11
29	Role of adhesion forces in mechanosensitive channel gating in Staphylococcus aureus adhering to surfaces. Npj Biofilms and Microbiomes, 2020, 6, 31.	2.9	13
30	Coating of a Novel Antimicrobial Nanoparticle with a Macrophage Membrane for the Selective Entry into Infected Macrophages and Killing of Intracellular Staphylococci. Advanced Functional Materials, 2020, 30, 2004942.	7.8	59
31	Enhanced bacterial killing by vancomycin in staphylococcal biofilms disrupted by novel, DMMA-modified carbon dots depends on EPS production. Colloids and Surfaces B: Biointerfaces, 2020, 193, 111114.	2.5	13
32	Antifungalâ€Inbuilt Metalâ€“Organicâ€Frameworks Eradicate Candida albicans Biofilms. Advanced Functional Materials, 2020, 30, 2000537.	7.8	44
33	Circumventing antimicrobial-resistance and preventing its development in novel, bacterial infection-control strategies. Expert Opinion on Drug Delivery, 2020, 17, 1151-1164.	2.4	34
34	Eradicating Infecting Bacteria while Maintaining Tissue Integration on Photothermal Nanoparticle-Coated Titanium Surfaces. ACS Applied Materials & Interfaces, 2020, 12, 34610-34619.	4.0	22
35	Streptococcus mutans adhesion force sensing in multi-species oral biofilms. Npj Biofilms and Microbiomes, 2020, 6, 25.	2.9	29
36	Polarization of Macrophages, Cellular Adhesion, and Spreading on Bacterially Contaminated Gold Nanoparticle-Coatings in Vitro. ACS Biomaterials Science and Engineering, 2020, 6, 933-945.	2.6	8

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37	Perspectives on and Need to Develop New Infection Control Strategies. , 2020, , 95-105.		3
38	Artificial Channels in an Infectious Biofilm Created by Magnetic Nanoparticles Enhanced Bacterial Killing by Antibiotics. Small, 2019, 15, e1902313.	5.2	70
39	Keratinocytes protect soft-tissue integration of dental implant materials against bacterial challenges in a 3D-tissue infection model. Acta Biomaterialia, 2019, 96, 237-246.	4.1	21
40	Bacterial Density and Biofilm Structure Determined by Optical Coherence Tomography. Scientific Reports, 2019, 9, 9794.	1.6	43
41	Clinical translation of the assets of biomedical engineering â€“ a retrospective analysis with looks to the future. Expert Review of Medical Devices, 2019, 16, 913-922.	1.4	9
42	Emergent Properties in Streptococcus mutans Biofilms Are Controlled through Adhesion Force Sensing by Initial Colonizers. MBio, 2019, 10, .	1.8	35
43	Nanotechnology-based antimicrobials and delivery systems for biofilm-infection control. Chemical Society Reviews, 2019, 48, 428-446.	18.7	464
44	Preparation and Evaluation of Antimicrobial Hyperbranched Emulsifiers for Waterborne Coatings. Langmuir, 2019, 35, 5779-5786.	1.6	16
45	Recommendations for design and conduct of preclinical in vivo studies of orthopedic deviceâ€related infection. Journal of Orthopaedic Research, 2019, 37, 271-287.	1.2	38
46	Penetration and Accumulation of Dendrons with Different Peripheral Composition in Pseudomonas aeruginosa Biofilms. Nano Letters, 2019, 19, 4327-4333.	4.5	15
47	Phosphorylcholine-Based Polymer Encapsulated Chitosan Nanoparticles Enhance the Penetration of Antimicrobials in a Staphylococcal Biofilm. ACS Macro Letters, 2019, 8, 651-657.	2.3	46
48	Biofilm composition and composite degradation during intra-oral wear. Dental Materials, 2019, 35, 740-750.	1.6	44
49	Role of Viscoelasticity in Bacterial Killing by Antimicrobials in Differently Grown Pseudomonas aeruginosa Biofilms. Antimicrobial Agents and Chemotherapy, 2019, 63, .	1.4	20
50	Click Reaction for Reversible Encapsulation of Single Yeast Cells. ACS Nano, 2019, 13, 14459-14467.	7.3	41
51	Antimicrobial synergy of monolaurin lipid nanocapsules with adsorbed antimicrobial peptides against Staphylococcus aureus biofilms in vitro is absent in vivo. Journal of Controlled Release, 2019, 293, 73-83.	4.8	33
52	Inhibiting Bacterial Adhesion by Mechanically Modulated Microgel Coatings. Biomacromolecules, 2019, 20, 243-253.	2.6	55
53	A Trans-Atlantic Perspective on Stagnation in Clinical Translation of Antimicrobial Strategies for the Control of Biomaterial-Implant-Associated Infection. ACS Biomaterials Science and Engineering, 2019, 5, 402-406.	2.6	29
54	Applications and Perspectives of Cascade Reactions in Bacterial Infection Control. Frontiers in Chemistry, 2019, 7, 861.	1.8	16

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55	Lipid-Based Antimicrobial Delivery-Systems for the Treatment of Bacterial Infections. Frontiers in Chemistry, 2019, 7, 872.	1.8	104
56	bFGF and Polyâ€RGD Cooperatively Establish Biointerface for Stem Cell Adhesion, Proliferation, and Differentiation. Advanced Materials Interfaces, 2018, 5, 1700702.	1.9	12
57	Floating and Tether-Coupled Adhesion of Bacteria to Hydrophobic and Hydrophilic Surfaces. Langmuir, 2018, 34, 4937-4944.	1.6	27
58	In vitro methods for the evaluation of antimicrobial surface designs. Acta Biomaterialia, 2018, 70, 12-24.	4.1	97
59	Emergent heterogeneous microenvironments in biofilms: substratum surface heterogeneity and bacterial adhesion force-sensing. FEMS Microbiology Reviews, 2018, 42, 259-272.	3.9	66
60	A bilayered nanoshell for durable protection of single yeast cells against multiple, simultaneous hostile stimuli. Chemical Science, 2018, 9, 4730-4735.	3.7	23
61	Photoswitchable Micelles for the Control of Singlet-Oxygen Generation in Photodynamic Therapies. Biomacromolecules, 2018, 19, 2023-2033.	2.6	25
62	Extracellular Polymeric Matrix Production and Relaxation under Fluid Shear and Mechanical Pressure in Staphylococcus aureus Biofilms. Applied and Environmental Microbiology, 2018, 84, .	1.4	51
63	Adhesion force sensing and activation of a membrane-bound sensor to activate nisin efflux pumps in Staphylococcus aureus under mechanical and chemical stresses. Journal of Colloid and Interface Science, 2018, 512, 14-20.	5.0	17
64	Physico-chemistry from initial bacterial adhesion to surface-programmed biofilm growth. Advances in Colloid and Interface Science, 2018, 261, 1-14.	7.0	245
65	Bacterial interactions with nanostructured surfaces. Current Opinion in Colloid and Interface Science, 2018, 38, 170-189.	3.4	77
66	Nanocarriers with conjugated antimicrobials to eradicate pathogenic biofilms evaluated in murine in vivo and human ex vivo infection models. Acta Biomaterialia, 2018, 79, 331-343.	4.1	82
67	Surface enhanced fluorescence and nanoscopic cell wall deformation in adheringStaphylococcus aureusupon exposure to cell wall active and non-active antibiotics. Nanoscale, 2018, 10, 11123-11133.	2.8	12
68	Transmission of Monospecies and Dual-Species Biofilms from Smooth to Nanopillared Surfaces. Applied and Environmental Microbiology, 2018, 84, .	1.4	5
69	Nanoengineered Superhydrophobic Surfaces of Aluminum with Extremely Low Bacterial Adhesivity. ACS Applied Materials & Interfaces, 2017, 9, 12118-12129.	4.0	182
70	Eradication of Multidrugâ€Resistant Staphylococcal Infections by Lightâ€Activatable Micellar Nanocarriers in a Murine Model. Advanced Functional Materials, 2017, 27, 1701974.	7.8	111
71	Elastic and viscous bond components in the adhesion of colloidal particles and fibrillated streptococci to QCM-D crystal surfaces with different hydrophobicities using Kelvinâ€“Voigt and Maxwell models. Physical Chemistry Chemical Physics, 2017, 19, 25391-25400.	1.3	11
72	Selfâ€perceived mouthfeel and physicoâ€chemical surface effects after chewing gums containing sorbitol and Magnolia bark extract. European Journal of Oral Sciences, 2017, 125, 379-384.	0.7	4

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73	Structural changes in S. epidermidis biofilms after transmission between stainless steel surfaces. Biofouling, 2017, 33, 712-721.	0.8	11
74	Self-defensive antibiotic-loaded layer-by-layer coatings: Imaging of localized bacterial acidification and pH-triggering of antibiotic release. Acta Biomaterialia, 2017, 61, 66-74.	4.1	106
75	Influence of biofilm lubricity on shearâ€induced transmission of staphylococcal biofilms from stainless steel to silicone rubber. Microbial Biotechnology, 2017, 10, 1744-1752.	2.0	7
76	Physico-chemistry of bacterial transmission versus adhesion. Advances in Colloid and Interface Science, 2017, 250, 15-24.	7.0	37
77	Comparison of methods to evaluate bacterial contact-killing materials. Acta Biomaterialia, 2017, 59, 139-147.	4.1	67
78	Detachment and successive re-attachment of multiple, reversibly-binding tethers result in irreversible bacterial adhesion to surfaces. Scientific Reports, 2017, 7, 4369.	1.6	35
79	A Trifunctional, Modular Biomaterial Coating: Nonadhesive to Bacteria, Chlorhexidineâ€Releasing and Tissueâ€Integrating. Macromolecular Bioscience, 2017, 17, 1600336.	2.1	9
80	Transcriptional Profiling of C. albicans in a Two Species Biofilm with Rothia dentocariosa. Frontiers in Cellular and Infection Microbiology, 2017, 7, 311.	1.8	12
81	Vaginal epithelial cells regulate membrane adhesiveness to co-ordinate bacterial adhesion. Cellular Microbiology, 2016, 18, 605-614.	1.1	7
82	Poly(trimethylene carbonate) as a carrier for rifampicin and vancomycin to target therapyâ€recalcitrant staphylococcal biofilms. Journal of Orthopaedic Research, 2016, 34, 1828-1837.	1.2	16
83	Magnolia bark extract increases oral bacterial cell surface hydrophobicity and improves self-perceived breath freshness when added to chewing gum. Journal of Functional Foods, 2016, 25, 367-374.	1.6	4
84	Lactobacilli require physical contact to reduce staphylococcal TSST-1 secretion and vaginal epithelial inflammatory response. Pathogens and Disease, 2016, 74, ftw029.	0.8	8
85	Quantification of the viscoelasticity of the bond of biotic and abiotic particles adhering to solid-liquid interfaces using a window-equipped quartz crystal microbalance with dissipation. Colloids and Surfaces B: Biointerfaces, 2016, 148, 255-262.	2.5	6
86	Structured free-water clusters near lubricating surfaces are essential in water-based lubrication. Journal of the Royal Society Interface, 2016, 13, 20160554.	1.5	3
87	Staphylococcal Adhesion, Detachment and Transmission on Nanopillared Si Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 30430-30439.	4.0	57
88	Potential benefits of chewing gum for the delivery of oral therapeutics and its possible role in oral healthcare. Expert Opinion on Drug Delivery, 2016, 13, 1421-1431.	2.4	30
89	Surface-Adaptive, Antimicrobially Loaded, Micellar Nanocarriers with Enhanced Penetration and Killing Efficiency in Staphylococcal Biofilms. ACS Nano, 2016, 10, 4779-4789.	7.3	293
90	Antimicrobials Influence Bond Stiffness and Detachment of Oral Bacteria. Journal of Dental Research, 2016, 95, 793-799.	2.5	11

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91	Mechanism of cell integration on biomaterial implant surfaces in the presence of bacterial contamination. Journal of Biomedical Materials Research - Part A, 2015, 103, 3590-3598.	2.1	24
92	3Dâ€Printable Antimicrobial Composite Resins. Advanced Functional Materials, 2015, 25, 6756-6767.	7.8	105
93	Quantification and Qualification of Bacteria Trapped in Chewed Gum. PLoS ONE, 2015, 10, e0117191.	1.1	14
94	Chemical Signals and Mechanosensing in Bacterial Responses to Their Environment. PLoS Pathogens, 2015, 11, e1005057.	2.1	49
95	Osteoblast integration of dental implant materials after challenge by sub-gingival pathogens: a co-culture study in vitro. International Journal of Oral Science, 2015, 7, 250-258.	3.6	32
96	Influence of Adhesion Force on icaA and cidA Gene Expression and Production of Matrix Components in Staphylococcus aureus Biofilms. Applied and Environmental Microbiology, 2015, 81, 3369-3378.	1.4	54
97	Macrophage phagocytic activity toward adhering staphylococci on cationic and patterned hydrogel coatings versus common biomaterials. Acta Biomaterialia, 2015, 18, 1-8.	4.1	24
98	Viscoelasticity of biofilms and their recalcitrance to mechanical and chemical challenges. FEMS Microbiology Reviews, 2015, 39, 234-245.	3.9	237
99	Influence of antibiotic pressure on bacterial bioluminescence, with emphasis on Staphylococcus aureus. International Journal of Antimicrobial Agents, 2015, 46, 713-717.	1.1	12
100	In vivo biofilm formation on stainless steel bonded retainers during different oral health-care regimens. International Journal of Oral Science, 2015, 7, 42-48.	3.6	18
101	Synergy of brushing mode and antibacterial use on in vivo biofilm formation. Journal of Dentistry, 2015, 43, 1580-1586.	1.7	19
102	Impact of 3D Hierarchical Nanostructures on the Antibacterial Efficacy of a Bacteria-Triggered Self-Defensive Antibiotic Coating. ACS Applied Materials & Interfaces, 2015, 7, 20304-20313.	4.0	125
103	Contribution of Adsorbed Protein Films to Nanoscopic Vibrations Exhibited by Bacteria Adhering through Ligandâ€“Receptor Bonds. Langmuir, 2015, 31, 10443-10450.	1.6	3
104	Charge properties and bacterial contact-killing of hyperbranched polyurea-polyethyleneimine coatings with various degrees of alkylation. Applied Surface Science, 2015, 356, 325-332.	3.1	17
105	Current Developments in Antimicrobial Surface Coatings for Biomedical Applications. Current Medicinal Chemistry, 2015, 22, 2116-2129.	1.2	123
106	Antimicrobial penetration in a dual-species oral biofilm after noncontact brushing: an in vitro study. Clinical Oral Investigations, 2014, 18, 1103-1109.	1.4	15
107	Voice Prosthetic Biofilm Formation and Candida Morphogenic Conversions in Absence and Presence of Different Bacterial Strains and Species on Silicone-Rubber. PLoS ONE, 2014, 9, e104508.	1.1	18
108	A Shapeâ€Adaptive, Antibacterialâ€Coating of Immobilized Quaternaryâ€Ammonium Compounds Tethered on Hyperbranched Polyurea and its Mechanism of Action. Advanced Functional Materials, 2014, 24, 346-355.	7.8	271

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109	Simultaneous interaction of bacteria and tissue cells with photocatalytically activated, anodized titanium surfaces. Biomaterials, 2014, 35, 2580-2587.	5.7	43
110	Nanoscale Cell Wall Deformation Impacts Long-Range Bacterial Adhesion Forces on Surfaces. Applied and Environmental Microbiology, 2014, 80, 637-643.	1.4	69
111	Normally Oriented Adhesion versus Friction Forces in Bacterial Adhesion to Polymerâ€Brush Functionalized Surfaces Under Fluid Flow. Advanced Functional Materials, 2014, 24, 4435-4441.	7.8	23
112	Small-molecule-hosting nanocomposite films with multiple bacteria-triggered responses. NPG Asia Materials, 2014, 6, e121-e121.	3.8	48
113	Residence-time dependent cell wall deformation of different Staphylococcus aureus strains on gold measured using surface-enhanced-fluorescence. Soft Matter, 2014, 10, 7638-7646.	1.2	29
114	Characterization and Activity of an Immobilized Antimicrobial Peptide Containing Bactericidal PEG-Hydrogel. Biomacromolecules, 2014, 15, 3390-3395.	2.6	57
115	Nanoscopic Vibrations of Bacteria with Different Cell-Wall Properties Adhering to Surfaces under Flow and Static Conditions. ACS Nano, 2014, 8, 8457-8467.	7.3	25
116	Viscous Nature of the Bond between Adhering Bacteria and Substratum Surfaces Probed by Atomic Force Microscopy. Langmuir, 2014, 30, 3165-3169.	1.6	10
117	Orthodontic treatment with fixed appliances and biofilm formationâ€"a potential public health threat?. Clinical Oral Investigations, 2014, 18, 1711-1718.	1.4	117
118	Conditions of lateral surface confinement that promote tissue-cell integration and inhibit biofilm growth. Biomaterials, 2014, 35, 5446-5452.	5.7	34
119	Soft tissue integration versus early biofilm formation on different dental implant materials. Dental Materials, 2014, 30, 716-727.	1.6	147
120	On-demand antimicrobial release from a temperature-sensitive polymer â€" Comparison with ad libitum release from central venous catheters. Journal of Controlled Release, 2014, 188, 61-66.	4.8	11
121	Antiadhesive Polymer Brush Coating Functionalized with Antimicrobial and RGD Peptides to Reduce Biofilm Formation and Enhance Tissue Integration. Biomacromolecules, 2014, 15, 2019-2026.	2.6	112
122	Anin vitroinvestigation of bacteria-osteoblast competition on oxygen plasma-modified PEEK. Journal of Biomedical Materials Research - Part A, 2014, 102, n/a-n/a.	2.1	17
123	Visualization of Microbiological Processes Underlying Stress Relaxation inPseudomonas aeruginosaBiofilms. Microscopy and Microanalysis, 2014, 20, 912-915.	0.2	13
124	Staphylococcal Colonization of E-Beam Patterned Surfaces. Microscopy and Microanalysis, 2014, 20, 1184-1185.	0.2	0
125	Characterization of novel silane coatings on titanium implant surfaces. Clinical Oral Implants Research, 2013, 24, 688-697.	1.9	51
126	Infection resistance of degradable versus non-degradable biomaterials: An assessment of the potential mechanisms. Biomaterials, 2013, 34, 8013-8017.	5.7	77

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127	Biodegradable vs non-biodegradable antibiotic delivery devices in the treatment of osteomyelitis. Expert Opinion on Drug Delivery, 2013, 10, 341-351.	2.4	138
128	Biofilm formation on stainless steel and gold wires for bonded retainers in vitro and in vivo and their susceptibility to oral antimicrobials. Clinical Oral Investigations, 2013, 17, 1209-1218.	1.4	16
129	Exchange of adsorbed serum proteins during adhesion of Staphylococcus aureus to an abiotic surface and Candida albicans hyphaeâ€"An AFM study. Colloids and Surfaces B: Biointerfaces, 2013, 110, 45-50.	2.5	14
130	Critical factors in the translation of improved antimicrobial strategies for medical implants and devices. Biomaterials, 2013, 34, 9237-9243.	5.7	93
131	Surface enhanced bacterial fluorescence and enumeration of bacterial adhesion. Biofouling, 2013, 29, 11-19.	0.8	13
132	Nonadhesive, silica nanoparticlesâ€based brushâ€coated contact lens casesâ€"Compromising between ease of cleaning and microbial transmission to contact lenses. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 640-647.	1.6	17
133	Bridging the Gap Between In Vitro and In Vivo Evaluation of Biomaterial-Associated Infections. , 2013, , 107-117.		3
134	A Functional DNase I Coating to Prevent Adhesion of Bacteria and the Formation of Biofilm. Advanced Functional Materials, 2013, 23, 2843-2849.	7.8	165
135	Surface Thermodynamic and Adhesion Force Evaluation of the Role of Chitin-Binding Protein in the Physical Interaction between Pseudomonas aeruginosa and Candida albicans. Langmuir, 2013, 29, 4823-4829.	1.6	25
136	Simulating Anti-adhesive and Antibacterial Bifunctional Polymers for Surface Coating using BioScape. , 2013, , .		3
137	A Distinguishable Role of eDNA in the Viscoelastic Relaxation of Biofilms. MBio, 2013, 4, e00497-13.	1.8	91
138	Recombinant Supercharged Polypeptides Restore and Improve Biolubrication. Advanced Materials, 2013, 25, 3426-3431.	11.1	28
139	Bacterial Adhesion Forces to Ag-Impregnated Contact Lens Cases and Transmission to Contact Lenses. Cornea, 2013, 32, 326-331.	0.9	6
140	Stress Relaxation Analysis Facilitates a Quantitative Approach towards Antimicrobial Penetration into Biofilms. PLoS ONE, 2013, 8, e63750.	1.1	42
141	Phagocytosis of Bacteria Adhering to a Biomaterial Surface in a Surface Thermodynamic Perspective. PLoS ONE, 2013, 8, e70046.	1.1	8
142	Bacterial Cell Surface Heterogeneity: A Pathogen's Disguise. PLoS Pathogens, 2012, 8, e1002821.	2.1	21
143	How Do Bacteria Know They Are on a Surface and Regulate Their Response to an Adhering State?. PLoS Pathogens, 2012, 8, e1002440.	2.1	167
144	Bacterial Adhesion Forces with Substratum Surfaces and the Susceptibility of Biofilms to Antibiotics. Antimicrobial Agents and Chemotherapy, 2012, 56, 4961-4964.	1.4	50

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145	Effect of adsorbed fibronectin on the differential adhesion of osteoblast-like cells and Staphylococcus aureus with and without fibronectin-binding proteins. Biofouling, 2012, 28, 1011-1021.	0.8	12
146	Adhesive Bond Stiffness of Staphylococcus aureus with and without Proteins That Bind to an Adsorbed Fibronectin Film. Applied and Environmental Microbiology, 2012, 78, 99-102.	1.4	18
147	Bacterial Cell Surface Damage Due to Centrifugal Compaction. Applied and Environmental Microbiology, 2012, 78, 120-125.	1.4	138
148	Bacterial Cell Surface Deformation under External Loading. MBio, 2012, 3, .	1.8	40
149	Environmental and centrifugal factors influencing the visco-elastic properties of oral biofilmsin vitro. Biofouling, 2012, 28, 913-920.	0.8	9
150	Influence of Prophylactic Antibiotics on Tissue Integration versus Bacterial Colonization on Poly(Methyl Methacrylate). International Journal of Artificial Organs, 2012, 35, 840-846.	0.7	5
151	Specific and Nonspecific Interactions between Salivary Proteins andStreptococcus mutans. ACS Symposium Series, 2012, , 355-371.	0.5	0
152	Biomaterial-Associated Infection: Locating the Finish Line in the Race for the Surface. Science Translational Medicine, 2012, 4, 153rv10.	5.8	575
153	Synthesis and Biological Evaluation of Gramicidin Sâ€Inspired Cyclic Mixed Î±/Î²â€Peptides. Chemistry and Biodiversity, 2012, 9, 2494-2506.	1.0	7
154	Force microscopic and thermodynamic analysis of the adhesion between Pseudomonas aeruginosa and Candida albicans. Soft Matter, 2012, 8, 6454.	1.2	44
155	The influence of ionic strength on the adhesive bond stiffness of oral streptococci possessing different surface appendages as probed using AFM and QCM-D. Soft Matter, 2012, 8, 9870.	1.2	20
156	Probing Colloidâ€“Substratum Contact Stiffness by Acoustic Sensing in a Liquid Phase. Analytical Chemistry, 2012, 84, 4504-4512.	3.2	68
157	Evaluation of adhesion forces of Staphylococcus aureus along the length of Candida albicanshyphae. BMC Microbiology, 2012, 12, 281.	1.3	46
158	Staphylococcus aureus adherence to Candida albicans hyphae is mediated by the hyphal adhesin Als3p. Microbiology (United Kingdom), 2012, 158, 2975-2986.	0.7	188
159	Plaque-left-behind after brushing: intra-oral reservoir for antibacterial toothpaste ingredients. Clinical Oral Investigations, 2012, 16, 1435-1442.	1.4	16
160	Boundary lubrication by brushed salivary conditioning films and their degree of glycosylation. Clinical Oral Investigations, 2012, 16, 1499-1506.	1.4	19
161	Persistence of a bioluminescent Staphylococcus aureus strain on and around degradable and non-degradable surgical meshes in a murine model. Acta Biomaterialia, 2012, 8, 3991-3996.	4.1	17
162	Role of Structure and Glycosylation of Adsorbed Protein Films in Biolubrication. PLoS ONE, 2012, 7, e42600.	1.1	39

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163	Use of hydroxyethyl starch for inducing red blood cell aggregation. Clinical Hemorheology and Microcirculation, 2012, 52, 27-35.	0.9	9
164	Contact-Killing of Adhering Streptococci by a Quaternary Ammonium Compound Incorporated in an Acrylic Resin. International Journal of Artificial Organs, 2012, 35, 854-863.	0.7	18
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