Henk J Busscher

List of Publications by Year in Descending Order

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	A Guanosine-Quadruplex Hydrogel as Cascade Reaction Container Consuming Endogenous Glucose for Infected Wound Treatment-A Study in Diabetic Mice.. *Advanced Science*, **2022**, e2103485	13.6	6
562	In-biofilm generation of nitric oxide using a magnetically-targetable cascade-reaction container for eradication of infectious biofilms.. *Bioactive Materials*, **2022**, 14, 321-334	16.7	3
561	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**, 100293	9.9	1
560	Encapsulation of Photothermal Nanoparticles in Stealth and pH-Responsive Micelles for Eradication of Infectious Biofilms In Vitro and In Vivo.. *Nanomaterials*, **2021**, 11,	5.4	2
559	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	8.3	1
558	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	10.8	11
557	Colonization of Intestinal Epithelial Layers in the Presence of Encapsulated for Its Protection against Gastrointestinal Fluids and Antibiotics. *ACS Applied Materials & Interfaces*, **2021**, 13, 15973-15982	9.5	7
556	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	5	3
555	Antimicrobial loading of nanotubular titanium surfaces favoring surface coverage by mammalian cells over bacterial colonization. *Materials Science and Engineering C*, **2021**, 123, 112021	8.3	6
554	Carbon Quantum Dots Derived from Different Carbon Sources for Antibacterial Applications. *Antibiotics*, **2021**, 10,	4.9	7
553	Possibilities and impossibilities of magnetic nanoparticle use in the control of infectious biofilms. *Journal of Materials Science and Technology*, **2021**, 69, 69-78	9.1	7
552	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	6	5
551	Interfacial interactions between protective, surface-engineered shells and encapsulated bacteria with different cell surface composition. *Nanoscale*, **2021**, 13, 7220-7233	7.7	3
550	Clearance of ESKAPE Pathogens from Blood Using Bacterially Activated Macrophage Membrane-Coated Silicon Nanowires. *Advanced Functional Materials*, **2021**, 31, 2007613	15.6	1
549	Influence of interaction between surface-modified magnetic nanoparticles with infectious biofilm components in artificial channel digging and biofilm eradication by antibiotics and. *Nanoscale*, **2021**, 13, 4644-4653	7.7	5
548	Liposomes with Water as a pH-Responsive Functionality for Targeting of Acidic Tumor and Infection Sites. *Angewandte Chemie*, **2021**, 133, 17855-17860	3.6	2
547	Liposomes with Water as a pH-Responsive Functionality for Targeting of Acidic Tumor and Infection Sites. *Angewandte Chemie - International Edition*, **2021**, 60, 17714-17719	16.4	11

546	Water in bacterial biofilms: pores and channels, storage and transport functions. *Critical Reviews in Microbiology*, **2021**, 1-20	7.8	6
545	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	9.1	0
544	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	6	5
543	Antifungal-Inbuilt Metal□Organic-Frameworks Eradicate Candida albicans Biofilms. *Advanced Functional Materials*, **2020**, 30, 2000537	15.6	21
542	Circumventing antimicrobial-resistance and preventing its development in novel, bacterial infection-control strategies. *Expert Opinion on Drug Delivery*, **2020**, 17, 1151-1164	8	15
541	Eradicating Infecting Bacteria while Maintaining Tissue Integration on Photothermal Nanoparticle-Coated Titanium Surfaces. *ACS Applied Materials & Interfaces*, **2020**, 12, 34610-34619	9.5	12
540	Streptococcus mutans adhesion force sensing in multi-species oral biofilms. *Npj Biofilms and Microbiomes*, **2020**, 6, 25	8.2	9
539	Polarization of Macrophages, Cellular Adhesion, and Spreading on Bacterially Contaminated Gold Nanoparticle-Coatings. *ACS Biomaterials Science and Engineering*, **2020**, 6, 933-945	5.5	3
538	Perspectives on and Need to Develop New Infection Control Strategies **2020**, 95-105		3
537	Accepting higher morbidity in exchange for sacrificing fewer animals in studies developing novel infection-control strategies. *Biomaterials*, **2020**, 232, 119737	15.6	9
536	Homogeneous Distribution of Magnetic, Antimicrobial-Carrying Nanoparticles through an Infectious Biofilm Enhances Biofilm-Killing Efficacy. *ACS Biomaterials Science and Engineering*, **2020**, 6, 205-212	5.5	18
535	Two-Stage Interpretation of Changes in TEER of Intestinal Epithelial Layers Protected by Adhering Bifidobacteria During Challenges. *Frontiers in Microbiology*, **2020**, 11, 599555	5.7	6
534	Self-targeting, zwitterionic micellar dispersants enhance antibiotic killing of infectious biofilms-An intravital imaging study in mice. *Science Advances*, **2020**, 6, eabb1112	14.3	28
533	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	0.5	3
532	Role of adhesion forces in mechanosensitive channel gating in Staphylococcus aureus adhering to surfaces. *Npj Biofilms and Microbiomes*, **2020**, 6, 31	8.2	4
531	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	15.6	24
530	Emergent Properties in Streptococcus mutans Biofilms Are Controlled through Adhesion Force Sensing by Initial Colonizers. *MBio*, **2019**, 10,	7.8	17
529	Nanotechnology-based antimicrobials and delivery systems for biofilm-infection control. *Chemical Society Reviews*, **2019**, 48, 428-446	58.5	262

528	Preparation and Evaluation of Antimicrobial Hyperbranched Emulsifiers for Waterborne Coatings. *Langmuir*, **2019**, 35, 5779-5786	4	8
527	Recommendations for design and conduct of preclinical in vivo studies of orthopedic device-related infection. *Journal of Orthopaedic Research*, **2019**, 37, 271-287	3.8	21
526	Penetration and Accumulation of Dendrons with Different Peripheral Composition in Biofilms. *Nano Letters*, **2019**, 19, 4327-4333	11.5	8
525	Phosphorylcholine-Based Polymer Encapsulated Chitosan Nanoparticles Enhance the Penetration of Antimicrobials in a Staphylococcal Biofilm. *ACS Macro Letters*, **2019**, 8, 651-657	6.6	25
524	Applications and Perspectives of Cascade Reactions in Bacterial Infection Control. *Frontiers in Chemistry*, **2019**, 7, 861	5	14
523	Lipid-Based Antimicrobial Delivery-Systems for the Treatment of Bacterial Infections. *Frontiers in Chemistry*, **2019**, 7, 872	5	55
522	Artificial Channels in an Infectious Biofilm Created by Magnetic Nanoparticles Enhanced Bacterial Killing by Antibiotics. *Small*, **2019**, 15, e1902313	11	41
521	Keratinocytes protect soft-tissue integration of dental implant materials against bacterial challenges in a 3D-tissue infection model. *Acta Biomaterialia*, **2019**, 96, 237-246	10.8	9
520	Bacterial Density and Biofilm Structure Determined by Optical Coherence Tomography. *Scientific Reports*, **2019**, 9, 9794	4.9	17
519	Clinical translation of the assets of biomedical engineering - a retrospective analysis with looks to the future. *Expert Review of Medical Devices*, **2019**, 16, 913-922	3.5	6
518	Biofilm composition and composite degradation during intra-oral wear. *Dental Materials*, **2019**, 35, 740-750	5.9	26
517	Role of Viscoelasticity in Bacterial Killing by Antimicrobials in Differently Grown Biofilms. *Antimicrobial Agents and Chemotherapy*, **2019**, 63,	5.9	10
516	Click Reaction for Reversible Encapsulation of Single Yeast Cells. *ACS Nano*, **2019**, 13, 14459-14467	16.7	16
515	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	11.7	21
514	Inhibiting Bacterial Adhesion by Mechanically Modulated Microgel Coatings. *Biomacromolecules*, **2019**, 20, 243-253	6.9	37
513	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	5.5	23
512	bFGF and Poly-RGD Cooperatively Establish Biointerface for Stem Cell Adhesion, Proliferation, and Differentiation. *Advanced Materials Interfaces*, **2018**, 5, 1700702	4.6	8
511	Floating and Tether-Coupled Adhesion of Bacteria to Hydrophobic and Hydrophilic Surfaces. *Langmuir*, **2018**, 34, 4937-4944	4	19

510	In vitro methods for the evaluation of antimicrobial surface designs. *Acta Biomaterialia*, **2018**, 70, 12-24	10.8	68
509	Emergent heterogeneous microenvironments in biofilms: substratum surface heterogeneity and bacterial adhesion force-sensing. *FEMS Microbiology Reviews*, **2018**, 42, 259-272	15.1	41
508	A bilayered nanoshell for durable protection of single yeast cells against multiple, simultaneous hostile stimuli. *Chemical Science*, **2018**, 9, 4730-4735	9.4	15
507	Photoswitchable Micelles for the Control of Singlet-Oxygen Generation in Photodynamic Therapies. *Biomacromolecules*, **2018**, 19, 2023-2033	6.9	18
506	Extracellular Polymeric Matrix Production and Relaxation under Fluid Shear and Mechanical Pressure in Staphylococcus aureus Biofilms. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	34
505	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	9.3	12
504	Physico-chemistry from initial bacterial adhesion to surface-programmed biofilm growth. *Advances in Colloid and Interface Science*, **2018**, 261, 1-14	14.3	129
503	Bacterial interactions with nanostructured surfaces. *Current Opinion in Colloid and Interface Science*, **2018**, 38, 170-189	7.6	46
502	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	10.8	52
501	Surface enhanced fluorescence and nanoscopic cell wall deformation in adhering Staphylococcus aureus upon exposure to cell wall active and non-active antibiotics. *Nanoscale*, **2018**, 10, 11123-11133	7.7	7
500	Transmission of Monospecies and Dual-Species Biofilms from Smooth to Nanopillared Surfaces. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	4
499	Nanoengineered Superhydrophobic Surfaces of Aluminum with Extremely Low Bacterial Adhesivity. *ACS Applied Materials & Interfaces*, **2017**, 9, 12118-12129	9.5	124
498	Eradication of Multidrug-Resistant Staphylococcal Infections by Light-Activatable Micellar Nanocarriers in a Murine Model. *Advanced Functional Materials*, **2017**, 27, 1701974	15.6	87
497	Elastic and viscous bond components in the adhesion of colloidal particles and fibrillated streptococci to QCM-D crystal surfaces with different hydrophobicities using Kelvin-Voigt and Maxwell models. *Physical Chemistry Chemical Physics*, **2017**, 19, 25391-25400	3.6	8
496	Self-perceived mouthfeel and physico-chemical surface effects after chewing gums containing sorbitol and Magnolia bark extract. *European Journal of Oral Sciences*, **2017**, 125, 379-384	2.3	3
495	Structural changes in S. epidermidis biofilms after transmission between stainless steel surfaces. *Biofouling*, **2017**, 33, 712-721	3.3	9
494	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	10.8	65
493	Influence of biofilm lubricity on shear-induced transmission of staphylococcal biofilms from stainless steel to silicone rubber. *Microbial Biotechnology*, **2017**, 10, 1744-1752	6.3	5

492	Physico-chemistry of bacterial transmission versus adhesion. *Advances in Colloid and Interface Science*, **2017**, 250, 15-24	14.3	25
491	Comparison of methods to evaluate bacterial contact-killing materials. *Acta Biomaterialia*, **2017**, 59, 139-147	6.8	46
490	Detachment and successive re-attachment of multiple, reversibly-binding tethers result in irreversible bacterial adhesion to surfaces. *Scientific Reports*, **2017**, 7, 4369	4.9	19
489	A Trifunctional, Modular Biomaterial Coating: Nonadhesive to Bacteria, Chlorhexidine-Releasing and Tissue-Integrating. *Macromolecular Bioscience*, **2017**, 17, 1600336	5.5	8
488	Transcriptional Profiling of in a Two Species Biofilm with. *Frontiers in Cellular and Infection Microbiology*, **2017**, 7, 311	5.9	10
487	Structured free-water clusters near lubricating surfaces are essential in water-based lubrication. *Journal of the Royal Society Interface*, **2016**, 13,	4.1	2
486	Staphylococcal Adhesion, Detachment and Transmission on Nanopillared Si Surfaces. *ACS Applied Materials & Interfaces*, **2016**, 8, 30430-30439	9.5	41
485	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, 1421-31	8	19
484	Surface-Adaptive, Antimicrobially Loaded, Micellar Nanocarriers with Enhanced Penetration and Killing Efficiency in Staphylococcal Biofilms. *ACS Nano*, **2016**, 10, 4779-89	16.7	211
483	Antimicrobials Influence Bond Stiffness and Detachment of Oral Bacteria. *Journal of Dental Research*, **2016**, 95, 793-9	8.1	10
482	Vaginal epithelial cells regulate membrane adhesiveness to co-ordinate bacterial adhesion. *Cellular Microbiology*, **2016**, 18, 605-14	3.9	5
481	Poly(trimethylene carbonate) as a carrier for rifampicin and vancomycin to target therapy-recalcitrant staphylococcal biofilms. *Journal of Orthopaedic Research*, **2016**, 34, 1828-1837	3.8	14
480	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	5.1	4
479	Lactobacilli require physical contact to reduce staphylococcal TSST-1 secretion and vaginal epithelial inflammatory response. *Pathogens and Disease*, **2016**, 74, ftw029	4.2	5
478	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	6	5
477	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, 3369-78	4.8	44
476	Macrophage phagocytic activity toward adhering staphylococci on cationic and patterned hydrogel coatings versus common biomaterials. *Acta Biomaterialia*, **2015**, 18, 1-8	10.8	18
475	Viscoelasticity of biofilms and their recalcitrance to mechanical and chemical challenges. *FEMS Microbiology Reviews*, **2015**, 39, 234-45	15.1	165

474	Influence of antibiotic pressure on bacterial bioluminescence, with emphasis on Staphylococcus aureus. *International Journal of Antimicrobial Agents*, **2015**, 46, 713-7	14.3	9
473	In vivo biofilm formation on stainless steel bonded retainers during different oral health-care regimens. *International Journal of Oral Science*, **2015**, 7, 42-8	27.9	14
472	Synergy of brushing mode and antibacterial use on in vivo biofilm formation. *Journal of Dentistry*, **2015**, 43, 1580-6	4.8	11
471	Impact of 3D Hierarchical Nanostructures on the Antibacterial Efficacy of a Bacteria-Triggered Self-Defensive Antibiotic Coating. *ACS Applied Materials & Interfaces*, **2015**, 7, 20304-13	9.5	98
470	Contribution of Adsorbed Protein Films to Nanoscopic Vibrations Exhibited by Bacteria Adhering through Ligand-Receptor Bonds. *Langmuir*, **2015**, 31, 10443-50	4	3
469	Charge properties and bacterial contact-killing of hyperbranched polyurea-polyethyleneimine coatings with various degrees of alkylation. *Applied Surface Science*, **2015**, 356, 325-332	6.7	14
468	Mechanism of cell integration on biomaterial implant surfaces in the presence of bacterial contamination. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 3590-8	5.4	19
467	3D-Printable Antimicrobial Composite Resins. *Advanced Functional Materials*, **2015**, 25, 6756-6767	15.6	83
466	Quantification and qualification of bacteria trapped in chewed gum. *PLoS ONE*, **2015**, 10, e0117191	3.7	10
465	Chemical Signals and Mechanosensing in Bacterial Responses to Their Environment. *PLoS Pathogens*, **2015**, 11, e1005057	7.6	41
464	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, 250-8	27.9	27
463	Current Developments in Antimicrobial Surface Coatings for Biomedical Applications. *Current Medicinal Chemistry*, **2015**, 22, 2116-29	4.3	98
462	Simultaneous interaction of bacteria and tissue cells with photocatalytically activated, anodized titanium surfaces. *Biomaterials*, **2014**, 35, 2580-7	15.6	38
461	Nanoscale cell wall deformation impacts long-range bacterial adhesion forces on surfaces. *Applied and Environmental Microbiology*, **2014**, 80, 637-43	4.8	56
460	Normally Oriented Adhesion versus Friction Forces in Bacterial Adhesion to Polymer-Brush Functionalized Surfaces Under Fluid Flow. *Advanced Functional Materials*, **2014**, 24, 4435-4441	15.6	20
459	Small-molecule-hosting nanocomposite films with multiple bacteria-triggered responses. *NPG Asia Materials*, **2014**, 6, e121-e121	10.3	42
458	Residence-time dependent cell wall deformation of different Staphylococcus aureus strains on gold measured using surface-enhanced-fluorescence. *Soft Matter*, **2014**, 10, 7638-46	3.6	23
457	Characterization and activity of an immobilized antimicrobial peptide containing bactericidal PEG-hydrogel. *Biomacromolecules*, **2014**, 15, 3390-5	6.9	44

456	Nanoscopic vibrations of bacteria with different cell-wall properties adhering to surfaces under flow and static conditions. *ACS Nano*, **2014**, 8, 8457-67	16.7	23
455	Viscous nature of the bond between adhering bacteria and substratum surfaces probed by atomic force microscopy. *Langmuir*, **2014**, 30, 3165-9	4	7
454	Orthodontic treatment with fixed appliances and biofilm formation--a potential public health threat?. *Clinical Oral Investigations*, **2014**, 18, 1711-8	4.2	74
453	Conditions of lateral surface confinement that promote tissue-cell integration and inhibit biofilm growth. *Biomaterials*, **2014**, 35, 5446-52	15.6	32
452	Soft tissue integration versus early biofilm formation on different dental implant materials. *Dental Materials*, **2014**, 30, 716-27	5.7	122
451	On-demand antimicrobial release from a temperature-sensitive polymer - comparison with ad libitum release from central venous catheters. *Journal of Controlled Release*, **2014**, 188, 61-6	11.7	10
450	Antiadhesive polymer brush coating functionalized with antimicrobial and RGD peptides to reduce biofilm formation and enhance tissue integration. *Biomacromolecules*, **2014**, 15, 2019-26	6.9	91
449	An in vitro investigation of bacteria-osteoblast competition on oxygen plasma-modified PEEK. *Journal of Biomedical Materials Research - Part A*, **2014**, 102, 4427-34	5.4	14
448	Visualization of microbiological processes underlying stress relaxation in Pseudomonas aeruginosa biofilms. *Microscopy and Microanalysis*, **2014**, 20, 912-5	0.5	11
447	Staphylococcal Colonization of E-Beam Patterned Surfaces. *Microscopy and Microanalysis*, **2014**, 20, 1184-1185		
446	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	3.7	18
445	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	15.6	219
444	Antimicrobial penetration in a dual-species oral biofilm after noncontact brushing: an in vitro study. *Clinical Oral Investigations*, **2014**, 18, 1103-1109	4.2	13
443	Characterization of novel silane coatings on titanium implant surfaces. *Clinical Oral Implants Research*, **2013**, 24, 688-97	4.8	41
442	Infection resistance of degradable versus non-degradable biomaterials: an assessment of the potential mechanisms. *Biomaterials*, **2013**, 34, 8013-7	15.6	59
441	Biodegradable vs non-biodegradable antibiotic delivery devices in the treatment of osteomyelitis. *Expert Opinion on Drug Delivery*, **2013**, 10, 341-51	8	106
440	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, 1209-18	4.2	11
439	Exchange of adsorbed serum proteins during adhesion of Staphylococcus aureus to an abiotic surface and Candida albicans hyphae--an AFM study. *Colloids and Surfaces B: Biointerfaces*, **2013**, 110, 45-50	6	13

438	Critical factors in the translation of improved antimicrobial strategies for medical implants and devices. *Biomaterials*, **2013**, 34, 9237-43	15.6	71
437	Surface enhanced bacterial fluorescence and enumeration of bacterial adhesion. *Biofouling*, **2013**, 29, 11-9	3.3	11
436	Nonadhesive, silica nanoparticles-based brush-coated contact lens cases--compromising between ease of cleaning and microbial transmission to contact lenses. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2013**, 101, 640-7	3.5	16
435	Bridging the Gap Between In Vitro and In Vivo Evaluation of Biomaterial-Associated Infections **2013** , 107-117		2
434	A Functional DNase I Coating to Prevent Adhesion of Bacteria and the Formation of Biofilm. *Advanced Functional Materials*, **2013**, 23, 2843-2849	15.6	125
433	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, 4823-9	4	18
432	Simulating Anti-adhesive and Antibacterial Bifunctional Polymers for Surface Coating using BioScape **2013**,		2
431	A distinguishable role of eDNA in the viscoelastic relaxation of biofilms. *MBio*, **2013**, 4, e00497-13	7.8	68
430	Recombinant supercharged polypeptides restore and improve biolubrication. *Advanced Materials*, **2013**, 25, 3426-31	24	26
429	Bacterial adhesion forces to Ag-impregnated contact lens cases and transmission to contact lenses. *Cornea*, **2013**, 32, 326-31	3.1	5
428	Stress relaxation analysis facilitates a quantitative approach towards antimicrobial penetration into biofilms. *PLoS ONE*, **2013**, 8, e63750	3.7	39
427	Phagocytosis of bacteria adhering to a biomaterial surface in a surface thermodynamic perspective. *PLoS ONE*, **2013**, 8, e70046	3.7	8
426	Design, synthesis and structural analysis of mixed α,β-peptides that adopt stable cyclic hairpin-like conformations. *Tetrahedron*, **2012**, 68, 2391-2400	2.4	9
425	The influence of Co-Cr and UHMWPE particles on infection persistence: an in vivo study in mice. *Journal of Orthopaedic Research*, **2012**, 30, 341-7	3.8	14
424	Surface thermodynamic homeostasis of salivary conditioning films through polar-apolar layering. *Clinical Oral Investigations*, **2012**, 16, 109-15	4.2	5
423	Specific and Nonspecific Interactions between Salivary Proteins andStreptococcus mutans. *ACS Symposium Series*, **2012**, 355-371	0.4	
422	Biomaterial-associated infection: locating the finish line in the race for the surface. *Science Translational Medicine*, **2012**, 4, 153rv10	17.5	455
421	Synthesis and biological evaluation of gramicidin S-inspired cyclic mixed α,β-peptides. *Chemistry and Biodiversity*, **2012**, 9, 2494-506	2.5	7

420	Force microscopic and thermodynamic analysis of the adhesion between Pseudomonas aeruginosa and Candida albicans. *Soft Matter*, **2012**, 8, 6454	3.6	38
419	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	3.6	20
418	Probing colloid-substratum contact stiffness by acoustic sensing in a liquid phase. *Analytical Chemistry*, **2012**, 84, 4504-12	7.8	62
417	Evaluation of adhesion forces of Staphylococcus aureus along the length of Candida albicans hyphae. *BMC Microbiology*, **2012**, 12, 281	4.5	39
416	Staphylococcus aureus adherence to Candida albicans hyphae is mediated by the hyphal adhesin Als3p. *Microbiology (United Kingdom)*, **2012**, 158, 2975-2986	2.9	151
415	Plaque-left-behind after brushing: intra-oral reservoir for antibacterial toothpaste ingredients. *Clinical Oral Investigations*, **2012**, 16, 1435-42	4.2	13
414	Boundary lubrication by brushed salivary conditioning films and their degree of glycosylation. *Clinical Oral Investigations*, **2012**, 16, 1499-506	4.2	16
413	Persistence of a bioluminescent Staphylococcus aureus strain on and around degradable and non-degradable surgical meshes in a murine model. *Acta Biomaterialia*, **2012**, 8, 3991-6	10.8	12
412	Role of structure and glycosylation of adsorbed protein films in biolubrication. *PLoS ONE*, **2012**, 7, e42600	3.7	35
411	Use of hydroxyethyl starch for inducing red blood cell aggregation. *Clinical Hemorheology and Microcirculation*, **2012**, 52, 27-35	2.5	6
410	Contact-killing of adhering streptococci by a quaternary ammonium compound incorporated in an acrylic resin. *International Journal of Artificial Organs*, **2012**, 35, 854-63	1.9	11
409	Composition and architecture of biofilms on used voice prostheses. *Head and Neck*, **2012**, 34, 863-71	4.2	25
408	A gentamicin-releasing coating for cementless hip prostheses-Longitudinal evaluation of efficacy using in vitro bio-optical imaging and its wide-spectrum antibacterial efficacy. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 3220-6	5.4	23
407	Magnetic targeting of surface-modified superparamagnetic iron oxide nanoparticles yields antibacterial efficacy against biofilms of gentamicin-resistant staphylococci. *Acta Biomaterialia*, **2012**, 8, 2047-55	10.8	128
406	Bacterial cell surface heterogeneity: a pathogen's disguise. *PLoS Pathogens*, **2012**, 8, e1002821	7.6	17
405	How do bacteria know they are on a surface and regulate their response to an adhering state?. *PLoS Pathogens*, **2012**, 8, e1002440	7.6	132
404	Bacterial adhesion forces with substratum surfaces and the susceptibility of biofilms to antibiotics. *Antimicrobial Agents and Chemotherapy*, **2012**, 56, 4961-4	5.9	40
403	Effect of adsorbed fibronectin on the differential adhesion of osteoblast-like cells and Staphylococcus aureus with and without fibronectin-binding proteins. *Biofouling*, **2012**, 28, 1011-21	3.3	12

402	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	4.8	18
401	Bacterial cell surface damage due to centrifugal compaction. *Applied and Environmental Microbiology*, **2012**, 78, 120-5	4.8	82
400	Bacterial cell surface deformation under external loading. *MBio*, **2012**, 3,	7.8	29
399	Environmental and centrifugal factors influencing the visco-elastic properties of oral biofilms in vitro. *Biofouling*, **2012**, 28, 913-20	3.3	9
398	Influence of prophylactic antibiotics on tissue integration versus bacterial colonization on poly(methyl methacrylate). *International Journal of Artificial Organs*, **2012**, 35, 840-6	1.9	5
397	Adhesion forces and coaggregation between vaginal staphylococci and lactobacilli. *PLoS ONE*, **2012** , 7, e36917	3.7	73
396	DNA-mediated bacterial aggregation is dictated by acid–base interactions. *Soft Matter*, **2011**, 7, 2927	3.6	57
395	Statistical analysis of long- and short-range forces involved in bacterial adhesion to substratum surfaces as measured using atomic force microscopy. *Applied and Environmental Microbiology*, **2011**, 77, 5065-70	4.8	64
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