Henny C Van Der Mei

List of Publications by Year
in descending order

395	22,541	7561 77	15716 125
papers	citations	h-index	g-index

397	397	397	21237
all docs	docs citations	times ranked	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	Role of the flagellar hook in the structural development and antibiotic tolerance of Pseudomonas aeruginosa biofilms. ISME Journal, 2022, 16, 1176-1186.	4.4	18
3	Self-targeting of zwitterion-based platforms for nano-antimicrobials and nanocarriers. Journal of Materials Chemistry B, 2022, 10, 2316-2322.	2.9	6
4	Cascadeâ€Targeting Poly(amino acid) Nanoparticles Eliminate Intracellular Bacteria via Onâ€Site Antibiotic Delivery. Advanced Materials, 2022, 34, e2109789.	11.1	51
5	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
6	Uncoupling bacterial attachment on and detachment from polydimethylsiloxane surfaces through empirical and simulation studies. Journal of Colloid and Interface Science, 2022, 622, 419-430.	5.0	9
7	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
8	A self-cleaning surface based on UV-activatable, AgCl micropumps for bacterial killing and removal. Chemical Communications, 2022, 58, 7030-7033.	2.2	2
9	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
10	Viscoelastic properties of plasma-agarose hydrogels dictate favorable fibroblast responses for skin tissue engineering applications. , 2022, 139, 212967.		7
11	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
12	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
13	Interfacial interactions between protective, surface-engineered shells and encapsulated bacteria with different cell surface composition. Nanoscale, 2021, 13, 7220-7233.	2.8	7
14	Clearance of ESKAPE Pathogens from Blood Using Bacterially Activated Macrophage Membraneâ€Coated Silicon Nanowires. Advanced Functional Materials, 2021, 31, 2007613.	7.8	9
15	Candida Biofilm Formation Assay on Essential Oil Coated Silicone Rubber. Bio-protocol, 2021, 11, e3941.	0.2	1
16	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
17	Lubricating properties of chewing stimulated whole saliva from patients suffering from xerostomia. Clinical Oral Investigations, 2021, 25, 4459-4469.	1.4	9
18	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

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19	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
20	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
21	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
22	Carbon Quantum Dots Derived from Different Carbon Sources for Antibacterial Applications. Antibiotics, 2021, 10, 623.	1.5	48
23	Influence of sub-inhibitory concentrations of antimicrobials on micrococcal nuclease and biofilm formation in Staphylococcus aureus. Scientific Reports, 2021, 11, 13241.	1.6	8
24	Nonviral Expression of LL-37 in a Human Skin Equivalent to Prevent Infection in Skin Wounds. Human Gene Therapy, 2021, 32, 1147-1157.	1.4	0
25	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
26	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
27	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
28	Inheritance of physico-chemical properties and ROS generation by carbon quantum dots derived from pyrolytically carbonized bacterial sources. Materials Today Bio, 2021, 12, 100151.	2.6	8
29	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
30	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
31	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
32	Micrococcal Nuclease stimulates Staphylococcus aureus Biofilm Formation in a Murine Implant Infection Model. Frontiers in Cellular and Infection Microbiology, 2021, 11, 799845.	1.8	5
33	A nanolayer coating on polydimethylsiloxane surfaces enables a mechanistic study of bacterial adhesion influenced by material surface physicochemistry. Materials Horizons, 2020, 7, 93-103.	6.4	31
34	Antifungal and biofilm inhibitory effect of Cymbopogon citratus (lemongrass) essential oil on biofilm forming by Candida tropicalis isolates; an in vitro study. Journal of Ethnopharmacology, 2020, 246, 112188.	2.0	46
35	Accepting higher morbidity in exchange for sacrificing fewer animals in studies developing novel infection-control strategies. Biomaterials, 2020, 232, 119737.	5.7	16
36	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

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37	Impact of solid surface hydrophobicity and micrococcal nuclease production on Staphylococcus aureus Newman biofilms. Scientific Reports, 2020, 10, 12093.	1.6	22
38	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
39	A microfluidic platform for in situ investigation of biofilm formation and its treatment under controlled conditions. Journal of Nanobiotechnology, 2020, 18, 166.	4.2	24
40	Antimicrobial Nanogels with Nanoinjection Capabilities for Delivery of the Hydrophobic Antibacterial Agent Triclosan. ACS Applied Polymer Materials, 2020, 2, 5779-5789.	2.0	29
41	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
42	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
43	Role of adhesion forces in mechanosensitive channel gating in Staphylococcus aureus adhering to surfaces. Npj Biofilms and Microbiomes, 2020, 6, 31.	2.9	13
44	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
45	Highly Efficient Antimicrobial and Antifouling Surface Coatings with Triclosan-Loaded Nanogels. ACS Applied Materials & Interfaces, 2020, 12, 57721-57731.	4.0	28
46	An integrated model system to gain mechanistic insights into biofilm-associated antimicrobial resistance in Pseudomonas aeruginosa MPAO1. Npj Biofilms and Microbiomes, 2020, 6, 46.	2.9	31
47	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
48	Antifungalâ€Inbuilt Metalâ€“Organicâ€Frameworks Eradicate Candida albicans Biofilms. Advanced Functional Materials, 2020, 30, 2000537.	7.8	44
49	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
50	Eradicating Infecting Bacteria while Maintaining Tissue Integration on Photothermal Nanoparticle-Coated Titanium Surfaces. ACS Applied Materials & Interfaces, 2020, 12, 34610-34619.	4.0	22
51	Streptococcus mutans adhesion force sensing in multi-species oral biofilms. Npj Biofilms and Microbiomes, 2020, 6, 25.	2.9	29
52	Water-Based Scalable Methods for Self-Cleaning Antibacterial ZnO-Nanostructured Surfaces. Industrial & Engineering Chemistry Research, 2020, 59, 14323-14333.	1.8	32
53	Pentadecanal and pentadecanoic acid coatings reduce biofilm formation of Staphylococcus epidermidis on PDMS. Pathogens and Disease, 2020, 78, .	0.8	6
54	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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55	Perspectives on and Need to Develop New Infection Control Strategies. , 2020, , 95-105.		3
56	Artificial Channels in an Infectious Biofilm Created by Magnetic Nanoparticles Enhanced Bacterial Killing by Antibiotics. Small, 2019, 15, e1902313.	5.2	70
57	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
58	Bacterial Density and Biofilm Structure Determined by Optical Coherence Tomography. Scientific Reports, 2019, 9, 9794.	1.6	43
59	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
60	Emergent Properties in Streptococcus mutans Biofilms Are Controlled through Adhesion Force Sensing by Initial Colonizers. MBio, 2019, 10, .	1.8	35
61	Nanotechnology-based antimicrobials and delivery systems for biofilm-infection control. Chemical Society Reviews, 2019, 48, 428-446.	18.7	464
62	Preparation and Evaluation of Antimicrobial Hyperbranched Emulsifiers for Waterborne Coatings. Langmuir, 2019, 35, 5779-5786.	1.6	16
63	Substrate viscosity plays an important role in bacterial adhesion under fluid flow. Journal of Colloid and Interface Science, 2019, 552, 247-257.	5.0	48
64	Penetration and Accumulation of Dendrons with Different Peripheral Composition in Pseudomonas aeruginosa Biofilms. Nano Letters, 2019, 19, 4327-4333.	4.5	15
65	Biofilm composition and composite degradation during intra-oral wear. Dental Materials, 2019, 35, 740-750.	1.6	44
66	Bacterial Adhesion on Soft Materials: Passive Physicochemical Interactions or Active Bacterial Mechanosensing?. Advanced Healthcare Materials, 2019, 8, e1801323.	3.9	45
67	Role of Viscoelasticity in Bacterial Killing by Antimicrobials in Differently Grown Pseudomonas aeruginosa Biofilms. Antimicrobial Agents and Chemotherapy, 2019, 63, .	1.4	20
68	Cell-Membrane-Inspired Silicone Interfaces that Mitigate Proinflammatory Macrophage Activation and Bacterial Adhesion. Langmuir, 2019, 35, 1882-1894.	1.6	35
69	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
70	Inhibiting Bacterial Adhesion by Mechanically Modulated Microgel Coatings. Biomacromolecules, 2019, 20, 243-253.	2.6	55
71	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
72	Applications and Perspectives of Cascade Reactions in Bacterial Infection Control. Frontiers in Chemistry, 2019, 7, 861.	1.8	16

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73	Lipid-Based Antimicrobial Delivery-Systems for the Treatment of Bacterial Infections. Frontiers in Chemistry, 2019, 7, 872.	1.8	104
74	Floating and Tether-Coupled Adhesion of Bacteria to Hydrophobic and Hydrophilic Surfaces. Langmuir, 2018, 34, 4937-4944.	1.6	27
75	In vitro methods for the evaluation of antimicrobial surface designs. Acta Biomaterialia, 2018, 70, 12-24.	4.1	97
76	Emergent heterogeneous microenvironments in biofilms: substratum surface heterogeneity and bacterial adhesion force-sensing. FEMS Microbiology Reviews, 2018, 42, 259-272.	3.9	66
77	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
78	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
79	Physico-chemistry from initial bacterial adhesion to surface-programmed biofilm growth. Advances in Colloid and Interface Science, 2018, 261, 1-14.	7.0	245
80	Bacterial interactions with nanostructured surfaces. Current Opinion in Colloid and Interface Science, 2018, 38, 170-189.	3.4	77
81	Secreted products of oral bacteria and biofilms impede mineralization of apical papilla stem cells in TLR-, species-, and culture-dependent fashion. Scientific Reports, 2018, 8, 12529.	1.6	15
82	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
83	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
84	Transmission of Monospecies and Dual-Species Biofilms from Smooth to Nanopillared Surfaces. Applied and Environmental Microbiology, 2018, 84, .	1.4	5
85	Extraction of Biofilms From Ureteral Stents for Quantification and Cultivation-Dependent and -Independent Analyses. Frontiers in Microbiology, 2018, 9, 1470.	1.5	14
86	Nanoengineered Superhydrophobic Surfaces of Aluminum with Extremely Low Bacterial Adhesivity. ACS Applied Materials & Interfaces, 2017, 9, 12118-12129.	4.0	182
87	Eradication of Multidrugâ€Resistant Staphylococcal Infections by Lightâ€Activatable Micellar Nanocarriers in a Murine Model. Advanced Functional Materials, 2017, 27, 1701974.	7.8	111
88	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
89	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
90	Structural changes in S. epidermidis biofilms after transmission between stainless steel surfaces. Biofouling, 2017, 33, 712-721.	0.8	11

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91	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
92	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
93	Physico-chemistry of bacterial transmission versus adhesion. Advances in Colloid and Interface Science, 2017, 250, 15-24.	7.0	37
94	Comparison of methods to evaluate bacterial contact-killing materials. Acta Biomaterialia, 2017, 59, 139-147.	4.1	67
95	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
96	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
97	Biofilm formation on ureteral stents - Incidence, clinical impact, and prevention. Swiss Medical Weekly, 2017, 147, w14408.	0.8	44
98	Vaginal epithelial cells regulate membrane adhesiveness to co-ordinate bacterial adhesion. Cellular Microbiology, 2016, 18, 605-614.	1.1	7
99	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
100	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
101	Vacuum plasma sprayed coatings using ionic silver doped hydroxyapatite powder to prevent bacterial infection of bone implants. Biointerphases, 2016, 11, 011012.	0.6	29
102	Lactobacilli require physical contact to reduce staphylococcal TSST-1 secretion and vaginal epithelial inflammatory response. Pathogens and Disease, 2016, 74, ftw029.	0.8	8
103	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
104	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
105	Staphylococcal Adhesion, Detachment and Transmission on Nanopillared Si Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 30430-30439.	4.0	57
106	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
107	Surface-Adaptive, Antimicrobially Loaded, Micellar Nanocarriers with Enhanced Penetration and Killing Efficiency in Staphylococcal Biofilms. ACS Nano, 2016, 10, 4779-4789.	7.3	293
108	Antimicrobials Influence Bond Stiffness and Detachment of Oral Bacteria. Journal of Dental Research, 2016, 95, 793-799.	2.5	11

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109	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
110	3Dâ€Printable Antimicrobial Composite Resins. Advanced Functional Materials, 2015, 25, 6756-6767.	7.8	105
111	Quantification and Qualification of Bacteria Trapped in Chewed Gum. PLoS ONE, 2015, 10, e0117191.	1.1	14
112	Chemical Signals and Mechanosensing in Bacterial Responses to Their Environment. PLoS Pathogens, 2015, 11, e1005057.	2.1	49
113	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
114	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
115	Macrophage phagocytic activity toward adhering staphylococci on cationic and patterned hydrogel coatings versus common biomaterials. Acta Biomaterialia, 2015, 18, 1-8.	4.1	24
116	Efficacy of cleansing agents in killing microorganisms in mixed species biofilms present on silicone facial prosthesesâ€”an in vitro study. Clinical Oral Investigations, 2015, 19, 2285-2293.	1.4	18
117	Viscoelasticity of biofilms and their recalcitrance to mechanical and chemical challenges. FEMS Microbiology Reviews, 2015, 39, 234-245.	3.9	237
118	Influence of antibiotic pressure on bacterial bioluminescence, with emphasis on Staphylococcus aureus. International Journal of Antimicrobial Agents, 2015, 46, 713-717.	1.1	12
119	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
120	Synergy of brushing mode and antibacterial use on in vivo biofilm formation. Journal of Dentistry, 2015, 43, 1580-1586.	1.7	19
121	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
122	Contribution of Adsorbed Protein Films to Nanoscopic Vibrations Exhibited by Bacteria Adhering through Ligandâ€“Receptor Bonds. Langmuir, 2015, 31, 10443-10450.	1.6	3
123	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
124	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
125	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
126	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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127	Simultaneous interaction of bacteria and tissue cells with photocatalytically activated, anodized titanium surfaces. Biomaterials, 2014, 35, 2580-2587.	5.7	43
128	Methylobacterium and Its Role in Health Care-Associated Infection. Journal of Clinical Microbiology, 2014, 52, 1317-1321.	1.8	92
129	Nanoscale Cell Wall Deformation Impacts Long-Range Bacterial Adhesion Forces on Surfaces. Applied and Environmental Microbiology, 2014, 80, 637-643.	1.4	69
130	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
131	Small-molecule-hosting nanocomposite films with multiple bacteria-triggered responses. NPG Asia Materials, 2014, 6, e121-e121.	3.8	48
132	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
133	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
134	Viscous Nature of the Bond between Adhering Bacteria and Substratum Surfaces Probed by Atomic Force Microscopy. Langmuir, 2014, 30, 3165-3169.	1.6	10
135	Orthodontic treatment with fixed appliances and biofilm formationâ€"a potential public health threat?. Clinical Oral Investigations, 2014, 18, 1711-1718.	1.4	117
136	Conditions of lateral surface confinement that promote tissue-cell integration and inhibit biofilm growth. Biomaterials, 2014, 35, 5446-5452.	5.7	34
137	Soft tissue integration versus early biofilm formation on different dental implant materials. Dental Materials, 2014, 30, 716-727.	1.6	147
138	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
139	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
140	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
141	Visualization of Microbiological Processes Underlying Stress Relaxation inPseudomonas aeruginosaBiofilms. Microscopy and Microanalysis, 2014, 20, 912-915.	0.2	13
142	Staphylococcal Colonization of E-Beam Patterned Surfaces. Microscopy and Microanalysis, 2014, 20, 1184-1185.	0.2	0
143	Infection resistance of degradable versus non-degradable biomaterials: An assessment of the potential mechanisms. Biomaterials, 2013, 34, 8013-8017.	5.7	77
144	Biodegradable vs non-biodegradable antibiotic delivery devices in the treatment of osteomyelitis. Expert Opinion on Drug Delivery, 2013, 10, 341-351.	2.4	138

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145	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
146	Transmission of Infection by Flexible Gastrointestinal Endoscopy and Bronchoscopy. Clinical Microbiology Reviews, 2013, 26, 231-254.	5.7	360
147	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
148	Critical factors in the translation of improved antimicrobial strategies for medical implants and devices. Biomaterials, 2013, 34, 9237-9243.	5.7	93
149	Surface enhanced bacterial fluorescence and enumeration of bacterial adhesion. Biofouling, 2013, 29, 11-19.	0.8	13
150	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
151	Bridging the Gap Between In Vitro and In Vivo Evaluation of Biomaterial-Associated Infections. , 2013, , 107-117.		3
152	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
153	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
154	Simulating Anti-adhesive and Antibacterial Bifunctional Polymers for Surface Coating using BioScape. , 2013, , .		3
155	A Distinguishable Role of eDNA in the Viscoelastic Relaxation of Biofilms. MBio, 2013, 4, e00497-13.	1.8	91
156	Recombinant Supercharged Polypeptides Restore and Improve Biolubrication. Advanced Materials, 2013, 25, 3426-3431.	11.1	28
157	Current State of Craniofacial Prosthetic Rehabilitation. International Journal of Prosthodontics, 2013, 26, 57-67.	0.7	90
158	Bacterial Adhesion Forces to Ag-Impregnated Contact Lens Cases and Transmission to Contact Lenses. Cornea, 2013, 32, 326-331.	0.9	6
159	Stress Relaxation Analysis Facilitates a Quantitative Approach towards Antimicrobial Penetration into Biofilms. PLoS ONE, 2013, 8, e63750.	1.1	42
160	Phagocytosis of Bacteria Adhering to a Biomaterial Surface in a Surface Thermodynamic Perspective. PLoS ONE, 2013, 8, e70046.	1.1	8
161	Bacterial Cell Surface Heterogeneity: A Pathogen's Disguise. PLoS Pathogens, 2012, 8, e1002821.	2.1	21
162	Microbial biofilms on facial prostheses. Biofouling, 2012, 28, 583-591.	0.8	39

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163	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
164	Bacterial Adhesion Forces with Substratum Surfaces and the Susceptibility of Biofilms to Antibiotics. Antimicrobial Agents and Chemotherapy, 2012, 56, 4961-4964.	1.4	50
165	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
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