

Henny C Van Der Mei

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|--------------------|--------------------------|----------------|-----------------|
| 388 papers | 18,063 citations | 70 h-index | 113 g-index |
| 395 ext. papers | 20,246 ext. citations | 6.9 avg, IF | 6.78 L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 388 | Cascade-targeting Poly(amino acid) Nanoparticles Eliminate Intracellular Bacteria via on-site Antibiotic Delivery.. <i>Advanced Materials</i> , 2022 , e2109789 | 24 | 8 |
| 387 | In-biofilm generation of nitric oxide using a magnetically-targetable cascade-reaction container for eradication of infectious biofilms.. <i>Bioactive Materials</i> , 2022 , 14, 321-334 | 16.7 | 3 |
| 386 | Uncoupling bacterial attachment on and detachment from polydimethylsiloxane surfaces through empirical and simulation studies.. <i>Journal of Colloid and Interface Science</i> , 2022 , 622, 419-430 | 9.3 | 1 |
| 385 | 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> , 2022 , 100293 | 9.9 | 1 |
| 384 | Micrococcal Nuclease stimulates Biofilm Formation in a Murine Implant Infection Model.. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021 , 11, 799845 | 5.9 | 0 |
| 383 | Encapsulation of Photothermal Nanoparticles in Stealth and pH-Responsive Micelles for Eradication of Infectious Biofilms In Vitro and In Vivo.. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 2 |
| 382 | Inheritance of physico-chemical properties and ROS generation by carbon quantum dots derived from pyrolytically carbonized bacterial sources. <i>Materials Today Bio</i> , 2021 , 12, 100151 | 9.9 | 3 |
| 381 | 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> , 2021 , 131, 112526 | 8.3 | 1 |
| 380 | Lubricating properties of chewing stimulated whole saliva from patients suffering from xerostomia. <i>Clinical Oral Investigations</i> , 2021 , 25, 4459-4469 | 4.2 | 0 |
| 379 | PAMAM dendrimers with dual-conjugated vancomycin and Ag-nanoparticles do not induce bacterial resistance and kill vancomycin-resistant Staphylococci. <i>Acta Biomaterialia</i> , 2021 , 123, 230-243 | 10.8 | 11 |
| 378 | Colonization of Intestinal Epithelial Layers in the Presence of Encapsulated for Its Protection against Gastrointestinal Fluids and Antibiotics. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15973-15982 | 9.5 | 7 |
| 377 | X-Ray Photoelectron Spectroscopy on Microbial Cell Surfaces: A Forgotten Method for the Characterization of Microorganisms Encapsulated With Surface-Engineered Shells. <i>Frontiers in Chemistry</i> , 2021 , 9, 666159 | 5 | 3 |
| 376 | Antimicrobial loading of nanotubular titanium surfaces favoring surface coverage by mammalian cells over bacterial colonization. <i>Materials Science and Engineering C</i> , 2021 , 123, 112021 | 8.3 | 6 |
| 375 | Carbon Quantum Dots Derived from Different Carbon Sources for Antibacterial Applications. <i>Antibiotics</i> , 2021 , 10, | 4.9 | 7 |
| 374 | Influence of sub-inhibitory concentrations of antimicrobials on micrococcal nuclease and biofilm formation in Staphylococcus aureus. <i>Scientific Reports</i> , 2021 , 11, 13241 | 4.9 | 0 |
| 373 | Possibilities and impossibilities of magnetic nanoparticle use in the control of infectious biofilms. <i>Journal of Materials Science and Technology</i> , 2021 , 69, 69-78 | 9.1 | 7 |
| 372 | Thermo-resistance of ESKAPE-panel pathogens, eradication and growth prevention of an infectious biofilm by photothermal, polydopamine-nanoparticles in vitro. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 32, 102324 | 6 | 5 |

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| 371 | Interfacial interactions between protective, surface-engineered shells and encapsulated bacteria with different cell surface composition. <i>Nanoscale</i> , 2021 , 13, 7220-7233 | 7.7 | 3 |
| 370 | Clearance of ESKAPE Pathogens from Blood Using Bacterially Activated Macrophage Membrane-Coated Silicon Nanowires. <i>Advanced Functional Materials</i> , 2021 , 31, 2007613 | 15.6 | 1 |
| 369 | Biofilm Formation Assay on Essential Oil Coated Silicone Rubber. <i>Bio-protocol</i> , 2021 , 11, e3941 | 0.9 | |
| 368 | Influence of interaction between surface-modified magnetic nanoparticles with infectious biofilm components in artificial channel digging and biofilm eradication by antibiotics and. <i>Nanoscale</i> , 2021 , 13, 4644-4653 | 7.7 | 5 |
| 367 | Nonviral Expression of LL-37 in a Human Skin Equivalent to Prevent Infection in Skin Wounds. <i>Human Gene Therapy</i> , 2021 , 32, 1147-1157 | 4.8 | |
| 366 | Liposomes with Water as a pH-Responsive Functionality for Targeting of Acidic Tumor and Infection Sites. <i>Angewandte Chemie</i> , 2021 , 133, 17855-17860 | 3.6 | 2 |
| 365 | Liposomes with Water as a pH-Responsive Functionality for Targeting of Acidic Tumor and Infection Sites. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17714-17719 | 16.4 | 11 |
| 364 | Water in bacterial biofilms: pores and channels, storage and transport functions. <i>Critical Reviews in Microbiology</i> , 2021 , 1-20 | 7.8 | 6 |
| 363 | Recent advances and future challenges in the use of nanoparticles for the dispersal of infectious biofilms. <i>Journal of Materials Science and Technology</i> , 2021 , 84, 208-218 | 9.1 | 0 |
| 362 | An integrated model system to gain mechanistic insights into biofilm-associated antimicrobial resistance in <i>Pseudomonas aeruginosa</i> MPAO1. <i>Npj Biofilms and Microbiomes</i> , 2020 , 6, 46 | 8.2 | 11 |
| 361 | Enhanced bacterial killing by vancomycin in staphylococcal biofilms disrupted by novel, DMMA-modified carbon dots depends on EPS production. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 193, 111114 | 6 | 5 |
| 360 | Antifungal-Inbuilt MetalOrganic-Frameworks Eradicate <i>Candida albicans</i> Biofilms. <i>Advanced Functional Materials</i> , 2020 , 30, 2000537 | 15.6 | 21 |
| 359 | Circumventing antimicrobial-resistance and preventing its development in novel, bacterial infection-control strategies. <i>Expert Opinion on Drug Delivery</i> , 2020 , 17, 1151-1164 | 8 | 15 |
| 358 | Eradicating Infecting Bacteria while Maintaining Tissue Integration on Photothermal Nanoparticle-Coated Titanium Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34610-34619 | 9.5 | 12 |
| 357 | <i>Streptococcus mutans</i> adhesion force sensing in multi-species oral biofilms. <i>Npj Biofilms and Microbiomes</i> , 2020 , 6, 25 | 8.2 | 9 |
| 356 | Water-Based Scalable Methods for Self-Cleaning Antibacterial ZnO-Nanostructured Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14323-14333 | 3.9 | 17 |
| 355 | Pentadecanal and pentadecanoic acid coatings reduce biofilm formation of <i>Staphylococcus epidermidis</i> on PDMS. <i>Pathogens and Disease</i> , 2020 , 78, | 4.2 | 1 |
| 354 | Polarization of Macrophages, Cellular Adhesion, and Spreading on Bacterially Contaminated Gold Nanoparticle-Coatings. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 933-945 | 5.5 | 3 |

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| 353 | Perspectives on and Need to Develop New Infection Control Strategies 2020 , 95-105 | | 3 |
| 352 | Accepting higher morbidity in exchange for sacrificing fewer animals in studies developing novel infection-control strategies. <i>Biomaterials</i> , 2020 , 232, 119737 | 15.6 | 9 |
| 351 | Homogeneous Distribution of Magnetic, Antimicrobial-Carrying Nanoparticles through an Infectious Biofilm Enhances Biofilm-Killing Efficacy. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 205-212 | 5.5 | 18 |
| 350 | Impact of solid surface hydrophobicity and micrococcal nuclease production on <i>Staphylococcus aureus</i> Newman biofilms. <i>Scientific Reports</i> , 2020 , 10, 12093 | 4.9 | 13 |
| 349 | Two-Stage Interpretation of Changes in TEER of Intestinal Epithelial Layers Protected by Adhering Bifidobacteria During Challenges. <i>Frontiers in Microbiology</i> , 2020 , 11, 599555 | 5.7 | 6 |
| 348 | A microfluidic platform for in situ investigation of biofilm formation and its treatment under controlled conditions. <i>Journal of Nanobiotechnology</i> , 2020 , 18, 166 | 9.4 | 7 |
| 347 | Antimicrobial Nanogels with Nanoinjection Capabilities for Delivery of the Hydrophobic Antibacterial Agent Triclosan. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 5779-5789 | 4.3 | 12 |
| 346 | Self-targeting, zwitterionic micellar dispersants enhance antibiotic killing of infectious biofilms-An intravital imaging study in mice. <i>Science Advances</i> , 2020 , 6, eabb1112 | 14.3 | 28 |
| 345 | Visualization of Bacterial Colonization and Cellular Layers in a Gut-on-a-Chip System Using Optical Coherence Tomography. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1211-1219 | 0.5 | 3 |
| 344 | Role of adhesion forces in mechanosensitive channel gating in <i>Staphylococcus aureus</i> adhering to surfaces. <i>Npj Biofilms and Microbiomes</i> , 2020 , 6, 31 | 8.2 | 4 |
| 343 | Coating of a Novel Antimicrobial Nanoparticle with a Macrophage Membrane for the Selective Entry into Infected Macrophages and Killing of Intracellular <i>Staphylococci</i> . <i>Advanced Functional Materials</i> , 2020 , 30, 2004942 | 15.6 | 24 |
| 342 | Highly Efficient Antimicrobial and Antifouling Surface Coatings with Triclosan-Loaded Nanogels. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57721-57731 | 9.5 | 13 |
| 341 | A nanolayer coating on polydimethylsiloxane surfaces enables a mechanistic study of bacterial adhesion influenced by material surface physicochemistry. <i>Materials Horizons</i> , 2020 , 7, 93-103 | 14.4 | 14 |
| 340 | Antifungal and biofilm inhibitory effect of <i>Cymbopogon citratus</i> (lemongrass) essential oil on biofilm forming by <i>Candida tropicalis</i> isolates; an in vitro study. <i>Journal of Ethnopharmacology</i> , 2020 , 246, 112188 | 5 | 20 |
| 339 | Emergent Properties in <i>Streptococcus mutans</i> Biofilms Are Controlled through Adhesion Force Sensing by Initial Colonizers. <i>MBio</i> , 2019 , 10, | 7.8 | 17 |
| 338 | Nanotechnology-based antimicrobials and delivery systems for biofilm-infection control. <i>Chemical Society Reviews</i> , 2019 , 48, 428-446 | 58.5 | 262 |
| 337 | Preparation and Evaluation of Antimicrobial Hyperbranched Emulsifiers for Waterborne Coatings. <i>Langmuir</i> , 2019 , 35, 5779-5786 | 4 | 8 |
| 336 | Substrate viscosity plays an important role in bacterial adhesion under fluid flow. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 247-257 | 9.3 | 30 |

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| 335 | Penetration and Accumulation of Dendrons with Different Peripheral Composition in Biofilms. <i>Nano Letters</i> , 2019 , 19, 4327-4333 | 11.5 | 8 |
| 334 | Applications and Perspectives of Cascade Reactions in Bacterial Infection Control. <i>Frontiers in Chemistry</i> , 2019 , 7, 861 | 5 | 14 |
| 333 | Lipid-Based Antimicrobial Delivery-Systems for the Treatment of Bacterial Infections. <i>Frontiers in Chemistry</i> , 2019 , 7, 872 | 5 | 55 |
| 332 | Artificial Channels in an Infectious Biofilm Created by Magnetic Nanoparticles Enhanced Bacterial Killing by Antibiotics. <i>Small</i> , 2019 , 15, e1902313 | 11 | 41 |
| 331 | Keratinocytes protect soft-tissue integration of dental implant materials against bacterial challenges in a 3D-tissue infection model. <i>Acta Biomaterialia</i> , 2019 , 96, 237-246 | 10.8 | 9 |
| 330 | Bacterial Density and Biofilm Structure Determined by Optical Coherence Tomography. <i>Scientific Reports</i> , 2019 , 9, 9794 | 4.9 | 17 |
| 329 | Clinical translation of the assets of biomedical engineering - a retrospective analysis with looks to the future. <i>Expert Review of Medical Devices</i> , 2019 , 16, 913-922 | 3.5 | 6 |
| 328 | Biofilm composition and composite degradation during intra-oral wear. <i>Dental Materials</i> , 2019 , 35, 740-750 | 5.9 | 26 |
| 327 | Bacterial Adhesion on Soft Materials: Passive Physicochemical Interactions or Active Bacterial Mechanosensing?. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801323 | 10.1 | 23 |
| 326 | Role of Viscoelasticity in Bacterial Killing by Antimicrobials in Differently Grown Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2019 , 63, | 5.9 | 10 |
| 325 | Cell-Membrane-Inspired Silicone Interfaces that Mitigate Proinflammatory Macrophage Activation and Bacterial Adhesion. <i>Langmuir</i> , 2019 , 35, 1882-1894 | 4 | 18 |
| 324 | Antimicrobial synergy of monolaurin lipid nanocapsules with adsorbed antimicrobial peptides against <i>Staphylococcus aureus</i> biofilms in vitro is absent in vivo. <i>Journal of Controlled Release</i> , 2019 , 293, 73-83 | 11.7 | 21 |
| 323 | Inhibiting Bacterial Adhesion by Mechanically Modulated Microgel Coatings. <i>Biomacromolecules</i> , 2019 , 20, 243-253 | 6.9 | 37 |
| 322 | A Trans-Atlantic Perspective on Stagnation in Clinical Translation of Antimicrobial Strategies for the Control of Biomaterial-Implant-Associated Infection. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 402-406 | 5.5 | 23 |
| 321 | Floating and Tether-Coupled Adhesion of Bacteria to Hydrophobic and Hydrophilic Surfaces. <i>Langmuir</i> , 2018 , 34, 4937-4944 | 4 | 19 |
| 320 | In vitro methods for the evaluation of antimicrobial surface designs. <i>Acta Biomaterialia</i> , 2018 , 70, 12-24 | 10.8 | 68 |
| 319 | Emergent heterogeneous microenvironments in biofilms: substratum surface heterogeneity and bacterial adhesion force-sensing. <i>FEMS Microbiology Reviews</i> , 2018 , 42, 259-272 | 15.1 | 41 |
| 318 | Extracellular Polymeric Matrix Production and Relaxation under Fluid Shear and Mechanical Pressure in <i>Staphylococcus aureus</i> Biofilms. <i>Applied and Environmental Microbiology</i> , 2018 , 84, | 4.8 | 34 |

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| 317 | Adhesion force sensing and activation of a membrane-bound sensor to activate nisin efflux pumps in <i>Staphylococcus aureus</i> under mechanical and chemical stresses. <i>Journal of Colloid and Interface Science</i> , 2018 , 512, 14-20 | 9.3 | 12 |
| 316 | Extraction of Biofilms From Ureteral Stents for Quantification and Cultivation-Dependent and -Independent Analyses. <i>Frontiers in Microbiology</i> , 2018 , 9, 1470 | 5.7 | 10 |
| 315 | Physico-chemistry from initial bacterial adhesion to surface-programmed biofilm growth. <i>Advances in Colloid and Interface Science</i> , 2018 , 261, 1-14 | 14.3 | 129 |
| 314 | Bacterial interactions with nanostructured surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2018 , 38, 170-189 | 7.6 | 46 |
| 313 | Secreted products of oral bacteria and biofilms impede mineralization of apical papilla stem cells in TLR-, species-, and culture-dependent fashion. <i>Scientific Reports</i> , 2018 , 8, 12529 | 4.9 | 5 |
| 312 | Nanocarriers with conjugated antimicrobials to eradicate pathogenic biofilms evaluated in murine in vivo and human ex vivo infection models. <i>Acta Biomaterialia</i> , 2018 , 79, 331-343 | 10.8 | 52 |
| 311 | Surface enhanced fluorescence and nanoscopic cell wall deformation in adhering <i>Staphylococcus aureus</i> upon exposure to cell wall active and non-active antibiotics. <i>Nanoscale</i> , 2018 , 10, 11123-11133 | 7.7 | 7 |
| 310 | Transmission of Monospecies and Dual-Species Biofilms from Smooth to Nanopillared Surfaces. <i>Applied and Environmental Microbiology</i> , 2018 , 84, | 4.8 | 4 |
| 309 | Nanoengineered Superhydrophobic Surfaces of Aluminum with Extremely Low Bacterial Adhesivity. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12118-12129 | 9.5 | 124 |
| 308 | Eradication of Multidrug-Resistant Staphylococcal Infections by Light-Activatable Micellar Nanocarriers in a Murine Model. <i>Advanced Functional Materials</i> , 2017 , 27, 1701974 | 15.6 | 87 |
| 307 | 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. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 25391-25400 | 3.6 | 8 |
| 306 | Self-perceived mouthfeel and physico-chemical surface effects after chewing gums containing sorbitol and Magnolia bark extract. <i>European Journal of Oral Sciences</i> , 2017 , 125, 379-384 | 2.3 | 3 |
| 305 | Structural changes in <i>S. epidermidis</i> biofilms after transmission between stainless steel surfaces. <i>Biofouling</i> , 2017 , 33, 712-721 | 3.3 | 9 |
| 304 | Self-defensive antibiotic-loaded layer-by-layer coatings: Imaging of localized bacterial acidification and pH-triggering of antibiotic release. <i>Acta Biomaterialia</i> , 2017 , 61, 66-74 | 10.8 | 65 |
| 303 | Influence of biofilm lubricity on shear-induced transmission of staphylococcal biofilms from stainless steel to silicone rubber. <i>Microbial Biotechnology</i> , 2017 , 10, 1744-1752 | 6.3 | 5 |
| 302 | Physico-chemistry of bacterial transmission versus adhesion. <i>Advances in Colloid and Interface Science</i> , 2017 , 250, 15-24 | 14.3 | 25 |
| 301 | Comparison of methods to evaluate bacterial contact-killing materials. <i>Acta Biomaterialia</i> , 2017 , 59, 139-148 | 14.8 | 46 |
| 300 | Detachment and successive re-attachment of multiple, reversibly-binding tethers result in irreversible bacterial adhesion to surfaces. <i>Scientific Reports</i> , 2017 , 7, 4369 | 4.9 | 19 |

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| 299 | Transcriptional Profiling of in a Two Species Biofilm with. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017 , 7, 311 | 5.9 | 10 |
| 298 | Biofilm formation on ureteral stents - Incidence, clinical impact, and prevention. <i>Swiss Medical Weekly</i> , 2017 , 147, w14408 | 3.1 | 31 |
| 297 | Structured free-water clusters near lubricating surfaces are essential in water-based lubrication. <i>Journal of the Royal Society Interface</i> , 2016 , 13, | 4.1 | 2 |
| 296 | Staphylococcal Adhesion, Detachment and Transmission on Nanopillared Si Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30430-30439 | 9.5 | 41 |
| 295 | Potential benefits of chewing gum for the delivery of oral therapeutics and its possible role in oral healthcare. <i>Expert Opinion on Drug Delivery</i> , 2016 , 13, 1421-31 | 8 | 19 |
| 294 | Surface-Adaptive, Antimicrobially Loaded, Micellar Nanocarriers with Enhanced Penetration and Killing Efficiency in Staphylococcal Biofilms. <i>ACS Nano</i> , 2016 , 10, 4779-89 | 16.7 | 211 |
| 293 | Antimicrobials Influence Bond Stiffness and Detachment of Oral Bacteria. <i>Journal of Dental Research</i> , 2016 , 95, 793-9 | 8.1 | 10 |
| 292 | Vaginal epithelial cells regulate membrane adhesiveness to co-ordinate bacterial adhesion. <i>Cellular Microbiology</i> , 2016 , 18, 605-14 | 3.9 | 5 |
| 291 | Poly(trimethylene carbonate) as a carrier for rifampicin and vancomycin to target therapy-recalcitrant staphylococcal biofilms. <i>Journal of Orthopaedic Research</i> , 2016 , 34, 1828-1837 | 3.8 | 14 |
| 290 | Magnolia bark extract increases oral bacterial cell surface hydrophobicity and improves self-perceived breath freshness when added to chewing gum. <i>Journal of Functional Foods</i> , 2016 , 25, 367-374 | 5.1 | 4 |
| 289 | Vacuum plasma sprayed coatings using ionic silver doped hydroxyapatite powder to prevent bacterial infection of bone implants. <i>Biointerphases</i> , 2016 , 11, 011012 | 1.8 | 19 |
| 288 | Lactobacilli require physical contact to reduce staphylococcal TSST-1 secretion and vaginal epithelial inflammatory response. <i>Pathogens and Disease</i> , 2016 , 74, ftw029 | 4.2 | 5 |
| 287 | 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. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 148, 255-262 | 6 | 5 |
| 286 | Influence of Adhesion Force on icaA and cidA Gene Expression and Production of Matrix Components in Staphylococcus aureus Biofilms. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 3369-78 | 4.8 | 44 |
| 285 | Macrophage phagocytic activity toward adhering staphylococci on cationic and patterned hydrogel coatings versus common biomaterials. <i>Acta Biomaterialia</i> , 2015 , 18, 1-8 | 10.8 | 18 |
| 284 | Efficacy of cleansing agents in killing microorganisms in mixed species biofilms present on silicone facial prostheses--an in vitro study. <i>Clinical Oral Investigations</i> , 2015 , 19, 2285-93 | 4.2 | 13 |
| 283 | Viscoelasticity of biofilms and their recalcitrance to mechanical and chemical challenges. <i>FEMS Microbiology Reviews</i> , 2015 , 39, 234-45 | 15.1 | 165 |
| 282 | Influence of antibiotic pressure on bacterial bioluminescence, with emphasis on Staphylococcus aureus. <i>International Journal of Antimicrobial Agents</i> , 2015 , 46, 713-7 | 14.3 | 9 |

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| 281 | In vivo biofilm formation on stainless steel bonded retainers during different oral health-care regimens. <i>International Journal of Oral Science</i> , 2015 , 7, 42-8 | 27.9 | 14 |
| 280 | Synergy of brushing mode and antibacterial use on in vivo biofilm formation. <i>Journal of Dentistry</i> , 2015 , 43, 1580-6 | 4.8 | 11 |
| 279 | Impact of 3D Hierarchical Nanostructures on the Antibacterial Efficacy of a Bacteria-Triggered Self-Defensive Antibiotic Coating. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20304-13 | 9.5 | 98 |
| 278 | Contribution of Adsorbed Protein Films to Nanoscopic Vibrations Exhibited by Bacteria Adhering through Ligand-Receptor Bonds. <i>Langmuir</i> , 2015 , 31, 10443-50 | 4 | 3 |
| 277 | Charge properties and bacterial contact-killing of hyperbranched polyurea-polyethyleneimine coatings with various degrees of alkylation. <i>Applied Surface Science</i> , 2015 , 356, 325-332 | 6.7 | 14 |
| 276 | Mechanism of cell integration on biomaterial implant surfaces in the presence of bacterial contamination. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3590-8 | 5.4 | 19 |
| 275 | 3D-Printable Antimicrobial Composite Resins. <i>Advanced Functional Materials</i> , 2015 , 25, 6756-6767 | 15.6 | 83 |
| 274 | Quantification and qualification of bacteria trapped in chewed gum. <i>PLoS ONE</i> , 2015 , 10, e0117191 | 3.7 | 10 |
| 273 | Chemical Signals and Mechanosensing in Bacterial Responses to Their Environment. <i>PLoS Pathogens</i> , 2015 , 11, e1005057 | 7.6 | 41 |
| 272 | Osteoblast integration of dental implant materials after challenge by sub-gingival pathogens: a co-culture study in vitro. <i>International Journal of Oral Science</i> , 2015 , 7, 250-8 | 27.9 | 27 |
| 271 | Simultaneous interaction of bacteria and tissue cells with photocatalytically activated, anodized titanium surfaces. <i>Biomaterials</i> , 2014 , 35, 2580-7 | 15.6 | 38 |
| 270 | Methylobacterium and its role in health care-associated infection. <i>Journal of Clinical Microbiology</i> , 2014 , 52, 1317-21 | 9.7 | 62 |
| 269 | Nanoscale cell wall deformation impacts long-range bacterial adhesion forces on surfaces. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 637-43 | 4.8 | 56 |
| 268 | Normally Oriented Adhesion versus Friction Forces in Bacterial Adhesion to Polymer-Brush Functionalized Surfaces Under Fluid Flow. <i>Advanced Functional Materials</i> , 2014 , 24, 4435-4441 | 15.6 | 20 |
| 267 | Small-molecule-hosting nanocomposite films with multiple bacteria-triggered responses. <i>NPG Asia Materials</i> , 2014 , 6, e121-e121 | 10.3 | 42 |
| 266 | Residence-time dependent cell wall deformation of different Staphylococcus aureus strains on gold measured using surface-enhanced-fluorescence. <i>Soft Matter</i> , 2014 , 10, 7638-46 | 3.6 | 23 |
| 265 | Nanoscale vibrations of bacteria with different cell-wall properties adhering to surfaces under flow and static conditions. <i>ACS Nano</i> , 2014 , 8, 8457-67 | 16.7 | 23 |
| 264 | Viscous nature of the bond between adhering bacteria and substratum surfaces probed by atomic force microscopy. <i>Langmuir</i> , 2014 , 30, 3165-9 | 4 | 7 |

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| 263 | Orthodontic treatment with fixed appliances and biofilm formation--a potential public health threat?. <i>Clinical Oral Investigations</i> , 2014 , 18, 1711-8 | 4.2 | 74 |
| 262 | Conditions of lateral surface confinement that promote tissue-cell integration and inhibit biofilm growth. <i>Biomaterials</i> , 2014 , 35, 5446-52 | 15.6 | 32 |
| 261 | Soft tissue integration versus early biofilm formation on different dental implant materials. <i>Dental Materials</i> , 2014 , 30, 716-27 | 5.7 | 122 |
| 260 | On-demand antimicrobial release from a temperature-sensitive polymer - comparison with ad libitum release from central venous catheters. <i>Journal of Controlled Release</i> , 2014 , 188, 61-6 | 11.7 | 10 |
| 259 | Antiadhesive polymer brush coating functionalized with antimicrobial and RGD peptides to reduce biofilm formation and enhance tissue integration. <i>Biomacromolecules</i> , 2014 , 15, 2019-26 | 6.9 | 91 |
| 258 | An in vitro investigation of bacteria-osteoblast competition on oxygen plasma-modified PEEK. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 4427-34 | 5.4 | 14 |
| 257 | Visualization of microbiological processes underlying stress relaxation in <i>Pseudomonas aeruginosa</i> biofilms. <i>Microscopy and Microanalysis</i> , 2014 , 20, 912-5 | 0.5 | 11 |
| 256 | Staphylococcal Colonization of E-Beam Patterned Surfaces. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1184-1185 | 0.5 | 11 |
| 255 | Voice prosthetic biofilm formation and <i>Candida</i> morphogenic conversions in absence and presence of different bacterial strains and species on silicone-rubber. <i>PLoS ONE</i> , 2014 , 9, e104508 | 3.7 | 18 |
| 254 | A Shape-Adaptive, Antibacterial-Coating of Immobilized Quaternary-Ammonium Compounds Tethered on Hyperbranched Polyurea and its Mechanism of Action. <i>Advanced Functional Materials</i> , 2014 , 24, 346-355 | 15.6 | 219 |
| 253 | Antimicrobial penetration in a dual-species oral biofilm after noncontact brushing: an in vitro study. <i>Clinical Oral Investigations</i> , 2014 , 18, 1103-1109 | 4.2 | 13 |
| 252 | Infection resistance of degradable versus non-degradable biomaterials: an assessment of the potential mechanisms. <i>Biomaterials</i> , 2013 , 34, 8013-7 | 15.6 | 59 |
| 251 | Biodegradable vs non-biodegradable antibiotic delivery devices in the treatment of osteomyelitis. <i>Expert Opinion on Drug Delivery</i> , 2013 , 10, 341-51 | 8 | 106 |
| 250 | Biofilm formation on stainless steel and gold wires for bonded retainers in vitro and in vivo and their susceptibility to oral antimicrobials. <i>Clinical Oral Investigations</i> , 2013 , 17, 1209-18 | 4.2 | 11 |
| 249 | Transmission of infection by flexible gastrointestinal endoscopy and bronchoscopy. <i>Clinical Microbiology Reviews</i> , 2013 , 26, 231-54 | 34 | 268 |
| 248 | Exchange of adsorbed serum proteins during adhesion of <i>Staphylococcus aureus</i> to an abiotic surface and <i>Candida albicans</i> hyphae--an AFM study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 110, 45-50 | 6 | 13 |
| 247 | Critical factors in the translation of improved antimicrobial strategies for medical implants and devices. <i>Biomaterials</i> , 2013 , 34, 9237-43 | 15.6 | 71 |
| 246 | Surface enhanced bacterial fluorescence and enumeration of bacterial adhesion. <i>Biofouling</i> , 2013 , 29, 11-9 | 3.3 | 11 |

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