

Brandon W Peterson

List of Publications by Citations

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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.

28

papers

699

citations

11

h-index

26

g-index

28

ext. papers

956

ext. citations

6.5

avg, IF

4.25

L-index

#	Paper	IF	Citations
28	Viscoelasticity of biofilms and their recalcitrance to mechanical and chemical challenges. <i>FEMS Microbiology Reviews</i> , 2015 , 39, 234-45	15.1	165
27	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
26	Bacterial cell surface damage due to centrifugal compaction. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 120-5	4.8	82
25	A distinguishable role of eDNA in the viscoelastic relaxation of biofilms. <i>MBio</i> , 2013 , 4, e00497-13	7.8	68
24	Artificial Channels in an Infectious Biofilm Created by Magnetic Nanoparticles Enhanced Bacterial Killing by Antibiotics. <i>Small</i> , 2019 , 15, e1902313	11	41
23	Stress relaxation analysis facilitates a quantitative approach towards antimicrobial penetration into biofilms. <i>PLoS ONE</i> , 2013 , 8, e63750	3.7	39
22	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
21	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
20	Silatranyl-nucleosides: transition state analogues for phosphoryl transfer reactions. <i>Tetrahedron Letters</i> , 2001 , 42, 4979-4982	2	14
19	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
18	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
17	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
16	Biological effects on tooth root surface topographies induced by various mechanical treatments. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 188, 110748	6	10
15	Structural changes in <i>S. epidermidis</i> biofilms after transmission between stainless steel surfaces. <i>Biofouling</i> , 2017 , 33, 712-721	3.3	9
14	Environmental and centrifugal factors influencing the visco-elastic properties of oral biofilms in vitro. <i>Biofouling</i> , 2012 , 28, 913-20	3.3	9
13	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
12	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

11	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
10	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
9	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
8	Water in bacterial biofilms: pores and channels, storage and transport functions. <i>Critical Reviews in Microbiology</i> , 2021 , 1-20	7.8	6
7	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
6	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
5	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
4	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
3	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
2	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
1	The Use of Scanning Electron Microscopy (SEM) in Visualizing the Root Canal Biofilm. <i>Springer Series on Biofilms</i> , 2015 , 87-101		1