

# Nanoscale Adhesion Forces of *Pseudomonas aeruginosa*

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Alumina surfaces with nanoscale topography reduce attachment and biofilm formation by <i>Escherichia coli</i> and <i>Listeria</i> spp.. <i>Biofouling</i> , 2014, 30, 1253-1268.	0.8	85
2	C-di-GMP Regulates Motile to Sessile Transition by Modulating MshA Pili Biogenesis and Near-Surface Motility Behavior in <i>Vibrio cholerae</i> . <i>PLoS Pathogens</i> , 2015, 11, e1005068.	2.1	108
3	Type IV pili mechanochemically regulate virulence factors in <i>Pseudomonas aeruginosa</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7563-7568.	3.3	320
4	Binding Forces of <i>Streptococcus mutans</i> P1 Adhesin. <i>ACS Nano</i> , 2015, 9, 1448-1460.	7.3	60
5	Bacterial adhesion force quantification by fluidic force microscopy. <i>Nanoscale</i> , 2015, 7, 4070-4079.	2.8	72
6	Sticky microbes: forces in microbial cell adhesion. <i>Trends in Microbiology</i> , 2015, 23, 376-382.	3.5	149
7	Cerebral ischemia-induced mitochondrial changes in a global ischemic rat model by AFM. <i>Biomedicine and Pharmacotherapy</i> , 2015, 71, 15-20.	2.5	8
8	Nanoscale Pulling of Type IV Pili Reveals Their Flexibility and Adhesion to Surfaces over Extended Lengths of the Pili. <i>Biophysical Journal</i> , 2015, 108, 2865-2875.	0.2	32
9	Recent advances in micromechanical characterization of polymer, biomaterial, and cell surfaces with atomic force microscopy. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 08LA02.	0.8	41
10	A Double-Edged Sword: The Role of VEGF in Wound Repair and Chemoattraction of Opportunist Pathogens. <i>International Journal of Molecular Sciences</i> , 2015, 16, 7159-7172.	1.8	18
11	Force-induced remodelling of proteins and their complexes. <i>Current Opinion in Structural Biology</i> , 2015, 30, 89-99.	2.6	42
12	Biogenesis of <i>Pseudomonas aeruginosa</i> type IV pili and regulation of their function. <i>Environmental Microbiology</i> , 2015, 17, 4148-4163.	1.8	88
13	Cross-regulation of <i>Pseudomonas</i> motility systems: the intimate relationship between flagella, pili and virulence. <i>Current Opinion in Microbiology</i> , 2015, 28, 78-82.	2.3	82
14	Understanding the role of clay minerals in the chromium(VI) bioremoval by <i>Pseudomonas aeruginosa</i> CCTCC AB93066 under growth condition: microscopic, spectroscopic and kinetic analysis. <i>World Journal of Microbiology and Biotechnology</i> , 2015, 31, 1765-1779.	1.7	21
15	How Bacteria Use Type IV Pili Machinery on Surfaces. <i>Trends in Microbiology</i> , 2015, 23, 775-788.	3.5	165
16	Understanding forces in biofilms. <i>Nanomedicine</i> , 2015, 10, 1219-1221.	1.7	5
17	Perspective: Adhesion Mediated Signal Transduction in Bacterial Pathogens. <i>Pathogens</i> , 2016, 5, 23.	1.2	12
18	Vaginal epithelial cells regulate membrane adhesiveness to co-ordinate bacterial adhesion. <i>Cellular Microbiology</i> , 2016, 18, 605-614.	1.1	7

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19	A scaffold protein connects type IV pili with the Chp chemosensory system to mediate activation of virulence signaling in <i>Pseudomonas aeruginosa</i> . <i>Molecular Microbiology</i> , 2016, 101, 590-605.	1.2	69
20	Principles and Applications of Force Spectroscopy Using Atomic Force Microscopy. <i>Bulletin of the Korean Chemical Society</i> , 2016, 37, 1895-1907.	1.0	12
21	Pili of <i>Lactobacillus rhamnosus</i> GG mediate interaction with $\beta$ -lactoglobulin. <i>Food Hydrocolloids</i> , 2016, 58, 35-41.	5.6	26
22	Biomechanics of <i>Borrelia burgdorferi</i> Vascular Interactions. <i>Cell Reports</i> , 2016, 16, 2593-2604.	2.9	48
23	Oligomerized backbone pilin helps piliated <i>Lactococcus lactis</i> to withstand shear flow. <i>Biofouling</i> , 2016, 32, 911-923.	0.8	5
24	Formation of bacterial pilus-like nanofibres by designed minimalistic self-assembling peptides. <i>Nature Communications</i> , 2016, 7, 13482.	5.8	27
25	Optical and force nanoscopy in microbiology. <i>Nature Microbiology</i> , 2016, 1, 16186.	5.9	84
26	Curli mediate bacterial adhesion to fibronectin via tensile multiple bonds. <i>Scientific Reports</i> , 2016, 6, 33909.	1.6	50
27	Probing the adhesion interactions of graphene on silicon oxide by nanoindentation. <i>Carbon</i> , 2016, 103, 63-72.	5.4	50
28	Nanoscale characteristics of antibacterial cationic polymeric brushes and single bacterium interactions probed by force microscopy. <i>RSC Advances</i> , 2016, 6, 17092-17099.	1.7	13
29	Bacterial mechanotransduction. <i>Current Opinion in Microbiology</i> , 2017, 36, 1-6.	2.3	55
30	Role of Cyclic Di-GMP and Exopolysaccharide in Type IV Pilus Dynamics. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	32
31	Plasma fibronectin stabilizes <i>Borrelia burgdorferi</i> endothelial interactions under vascular shear stress by a catch-bond mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3490-E3498.	3.3	35
32	Measurement of the unwinding force of a DNA double helix. <i>Journal of Structural Chemistry</i> , 2017, 58, 315-339.	0.3	2
33	Cryoelectron Microscopy Reconstructions of the <i>Pseudomonas aeruginosa</i> and <i>Neisseria gonorrhoeae</i> Type IV Pili at Sub-nanometer Resolution. <i>Structure</i> , 2017, 25, 1423-1435.e4.	1.6	87
34	Defining the Mechanical Determinants of <i>Kingella kingae</i> Adherence to Host Cells. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	10
35	Recent advances in studying single bacteria and biofilm mechanics. <i>Advances in Colloid and Interface Science</i> , 2017, 247, 573-588.	7.0	42
36	Microfluidic bacterial traps for simultaneous fluorescence and atomic force microscopy. <i>Nano Research</i> , 2017, 10, 3896-3908.	5.8	16

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38	Applications of MEMS to Cell Biology. <i>Springer Handbooks</i> , 2017, , 587-616.	0.3	2
39	Determination of the nano-scaled contact area of staphylococcal cells. <i>Nanoscale</i> , 2017, 9, 10084-10093.	2.8	29
40	Adhesion control of fungal spores on solid surfaces using hydrophilic nanoparticles. <i>Advanced Powder Technology</i> , 2018, 29, 909-914.	2.0	8
41	Single Molecule Force Spectroscopy Reveals Two-Domain Binding Mode of Pilus-1 Tip Protein RrgA of <i>Streptococcus pneumoniae</i> to Fibronectin. <i>ACS Nano</i> , 2018, 12, 549-558.	7.3	25
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43	Adhesion to nanofibers drives cell membrane remodeling through one-dimensional wetting. <i>Nature Communications</i> , 2018, 9, 4450.	5.8	24
44	Direct measurements of colloidal behavior of polystyrene nanoparticles into budding yeast cells using atomic force microscopy and confocal microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 555, 653-659.	2.3	5
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49	<i>Xanthomonas vesicatoria</i> virulence factors involved in early stages of bacterial spot development in tomato. <i>Plant Pathology</i> , 2018, 67, 1936-1943.	1.2	13
50	Substrate-rigidity dependent migration of an idealized twitching bacterium. <i>Soft Matter</i> , 2019, 15, 6224-6236.	1.2	8
51	Bacterial spinning top. <i>Journal of Fluid Mechanics</i> , 2019, 880, 620-652.	1.4	15
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59	Nanopillared Surfaces Disrupt <i>Pseudomonas aeruginosa</i> Mechanoresponsive Upstream Motility. ACS Applied Materials & Interfaces, 2019, 11, 10532-10539.	4.0	17
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61	The Dynamic Structures of the Type IV Pilus. , 2019, , 113-128.		2
62	Deep mutational scanning of the <i>Neisseria meningitidis</i> major pilin reveals the importance of pilus tip-mediated adhesion. EMBO Journal, 2019, 38, e102145.	3.5	12
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65	Investigation of Bacterial Curli Production and Adhesion Using AFM. Methods in Molecular Biology, 2019, 1886, 221-231.	0.4	2
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74	The importance of force in microbial cell adhesion. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 47, 111-117.	3.4	11
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89	Force spectroscopy of single cells using atomic force microscopy. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	61
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92	The biophysics of bacterial infections: Adhesion events in the light of force spectroscopy. <i>Cell Surface</i> , 2021, 7, 100048.	1.5	6

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