

# Jeffrey S Mclean

## List of Publications by Year in descending order

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72  
papers

10,559  
citations

94433

37  
h-index

85541

71  
g-index

75  
all docs

75  
docs citations

75  
times ranked

15905  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking. <i>Nature Biotechnology</i> , 2016, 34, 828-837.	17.5	2,802
2	Electrically conductive bacterial nanowires produced by <i>Shewanella oneidensis</i> strain MR-1 and other microorganisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11358-11363.	7.1	1,629
3	Assembling Single-Cell Genomes and Mini-Metagenomes From Chimeric MDA Products. <i>Journal of Computational Biology</i> , 2013, 20, 714-737.	1.6	1,235
4	<scp>hybrid</scp>SPA<scp>des</scp>: an algorithm for hybrid assembly of short and long reads. <i>Bioinformatics</i> , 2016, 32, 1009-1015.	4.1	463
5	Assembling Genomes and Mini-metagenomes from Highly Chimeric Reads. <i>Lecture Notes in Computer Science</i> , 2013, , 158-170.	1.3	439
6	Cultivation of a human-associated TM7 phylotype reveals a reduced genome and epibiotic parasitic lifestyle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 244-249.	7.1	405
7	c-Type Cytochrome-Dependent Formation of U(IV) Nanoparticles by <i>Shewanella oneidensis</i> . <i>PLoS Biology</i> , 2006, 4, e268.	5.6	310
8	Candidate phylum TM6 genome recovered from a hospital sink biofilm provides genomic insights into this uncultivated phylum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2390-9.	7.1	192
9	Acquisition and Adaptation of Ultra-small Parasitic Reduced Genome Bacteria to Mammalian Hosts. <i>Cell Reports</i> , 2020, 32, 107939.	6.4	152
10	Recent advances in genomic DNA sequencing of microbial species from single cells. <i>Nature Reviews Genetics</i> , 2014, 15, 577-584.	16.3	146
11	Precision-guided antimicrobial peptide as a targeted modulator of human microbial ecology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 7569-7574.	7.1	135
12	Utilization of DNA as a Sole Source of Phosphorus, Carbon, and Energy by <i>Shewanella</i> spp.: Ecological and Physiological Implications for Dissimilatory Metal Reduction. <i>Applied and Environmental Microbiology</i> , 2008, 74, 1198-1208.	3.1	129
13	Quantification of Electron Transfer Rates to a Solid Phase Electron Acceptor through the Stages of Biofilm Formation from Single Cells to Multicellular Communities. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2721-2727.	10.0	122
14	Isolation and characterization of a chromium-reducing bacterium from a chromated copper arsenate-contaminated site. <i>Environmental Microbiology</i> , 2000, 2, 611-619.	3.8	119
15	Single Virus Genomics: A New Tool for Virus Discovery. <i>PLoS ONE</i> , 2011, 6, e17722.	2.5	112
16	An in vitro biofilm model system maintaining a highly reproducible species and metabolic diversity approaching that of the human oral microbiome. <i>Microbiome</i> , 2013, 1, 25.	11.1	106
17	Using DGGE profiling to develop a novel culture medium suitable for oral microbial communities. <i>Molecular Oral Microbiology</i> , 2010, 25, 357-367.	2.7	93
18	Role of outer membrane cytochromes MtrC and OmcA in the biomineralization of ferrihydrite by <i>Shewanella oneidensis</i> MR-1. <i>Geobiology</i> , 2010, 8, 56-68.	2.4	91

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19	The social structure of microbial community involved in colonization resistance. ISME Journal, 2014, 8, 564-574.	9.8	83
20	Oxygen-dependent autoaggregation in <i>Shewanella oneidensis</i> MR-1. Environmental Microbiology, 2008, 10, 1861-1876.	3.8	77
21	Correlated biofilm imaging, transport and metabolism measurements via combined nuclear magnetic resonance and confocal microscopy. ISME Journal, 2008, 2, 121-131.	9.8	76
22	In situ effective diffusion coefficient profiles in live biofilms using pulsed-field gradient nuclear magnetic resonance. Biotechnology and Bioengineering, 2010, 106, 928-937.	3.3	76
23	Advancements toward a systems level understanding of the human oral microbiome. Frontiers in Cellular and Infection Microbiology, 2014, 4, 98.	3.9	76
24	Phenotypic and Physiological Characterization of the Epibiotic Interaction Between TM7x and Its Basibiont Actinomyces. Microbial Ecology, 2016, 71, 243-255.	2.8	68
25	Investigations of structure and metabolism within <i>Shewanella oneidensis</i> MR-1 biofilms. Journal of Microbiological Methods, 2008, 74, 47-56.	1.6	67
26	Effects of varied pH, growth rate and temperature using controlled fermentation and batch culture on Matrix Assisted Laser Desorption/Ionization whole cell protein fingerprints. Journal of Microbiological Methods, 2005, 62, 259-271.	1.6	65
27	The well-coordinated linkage between acidogenicity and aciduricity via insoluble glucans on the surface of <i>Streptococcus mutans</i> . Scientific Reports, 2016, 5, 18015.	3.3	64
28	Meta-omics uncover temporal regulation of pathways across oral microbiome genera during <i>in vitro</i> sugar metabolism. ISME Journal, 2015, 9, 2605-2619.	9.8	63
29	Rapid evolution of decreased host susceptibility drives a stable relationship between ultrasmall parasite TM7x and its bacterial host. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12277-12282.	7.1	59
30	Rapamycin rejuvenates oral health in aging mice. ELife, 2020, 9, .	6.0	59
31	Genome of the pathogen <i>Porphyromonas gingivalis</i> recovered from a biofilm in a hospital sink using a high-throughput single-cell genomics platform. Genome Research, 2013, 23, 867-877.	5.5	58
32	Titanium as a modifier of the peri-implant microbiome structure. Clinical Implant Dentistry and Related Research, 2018, 20, 945-953.	3.7	58
33	NMR methods for in situ biofilm metabolism studies. Journal of Microbiological Methods, 2005, 62, 337-344.	1.6	57
34	Identifying Low pH Active and Lactate-Utilizing Taxa within Oral Microbiome Communities from Healthy Children Using Stable Isotope Probing Techniques. PLoS ONE, 2012, 7, e32219.	2.5	49
35	WTO must ban harmful fisheries subsidies. Science, 2021, 374, 544-544.	12.6	45
36	The Denture-Associated Oral Microbiome in Health and Stomatitis. MSphere, 2016, 1, .	2.9	44

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37	Investigating Acid Production by <i>Streptococcus mutans</i> with a Surface-Displayed pH-Sensitive Green Fluorescent Protein. <i>PLoS ONE</i> , 2013, 8, e57182.	2.5	42
38	Episymbiotic <i>Saccharibacteria</i> suppresses gingival inflammation and bone loss in mice through host bacterial modulation. <i>Cell Host and Microbe</i> , 2021, 29, 1649-1662.e7.	11.0	39
39	The <i>saccharibacterium</i> TM7x elicits differential responses across its host range. <i>ISME Journal</i> , 2020, 14, 3054-3067.	9.8	35
40	Uncovering complex microbiome activities via metatranscriptomics during 24-hour oral biofilm assembly and maturation. <i>Microbiome</i> , 2018, 6, 217.	11.1	34
41	Preparation and evaluation of spore-specific affinity-augmented bio-imprinted beads. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 211-219.	3.7	33
42	Human Oral Buccal Microbiomes Are Associated with Farmworker Status and Azinphos-Methyl Agricultural Pesticide Exposure. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	33
43	Draft Genome Sequence of <i>Actinomyces odontolyticus</i> subsp. <i>actinosynbacter</i> Strain XH001, the Basibiont of an Oral TM7 Epibiont. <i>Genome Announcements</i> , 2016, 4, .	0.8	32
44	Quorum Sensing Modulates the Epibiotic-Parasitic Relationship Between <i>Actinomyces odontolyticus</i> and Its <i>Saccharibacteria</i> epibiont, a <i>Nanosynbacter lyticus</i> Strain, TM7x. <i>Frontiers in Microbiology</i> , 2018, 9, 2049.	3.5	32
45	Redox Sensing within the Genus <i>Shewanella</i> . <i>Frontiers in Microbiology</i> , 2017, 8, 2568.	3.5	32
46	NMR bioreactor development for live in-situ microbial functional analysis. <i>Journal of Magnetic Resonance</i> , 2008, 192, 159-166.	2.1	30
47	Metabolic Fingerprints from the Human Oral Microbiome Reveal a Vast Knowledge Gap of Secreted Small Peptidic Molecules. <i>MSystems</i> , 2017, 2, .	3.8	30
48	<i>Klebsiella</i> and <i>Providencia</i> emerge as lone survivors following long-term starvation of oral microbiota. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8499-8504.	7.1	30
49	Acquisition of the arginine deiminase system benefits epiparasitic <i>Saccharibacteria</i> and their host bacteria in a mammalian niche environment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	30
50	Fe(III) Reduction and U(VI) Immobilization by <i>Paenibacillus</i> sp. Strain 300A, Isolated from Hanford 300A Subsurface Sediments. <i>Applied and Environmental Microbiology</i> , 2012, 78, 8001-8009.	3.1	26
51	Discovery of a Novel Periodontal Disease-Associated Bacterium. <i>Microbial Ecology</i> , 2019, 77, 267-276.	2.8	26
52	Human variation in gingival inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	25
53	The influence of cultivation methods on <i>Shewanella oneidensis</i> physiology and proteome expression. <i>Archives of Microbiology</i> , 2008, 189, 313-324.	2.2	21
54	Metagenome and Metatranscriptome Analyses Using Protein Family Profiles. <i>PLoS Computational Biology</i> , 2016, 12, e1004991.	3.2	21

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55	Toll-like receptor 2 and 4 responses regulate neutrophil infiltration into the junctional epithelium and significantly contribute to the composition of the oral microbiota. <i>Journal of Periodontology</i> , 2019, 90, 1202-1212.	3.4	21
56	A Linear Plasmid-Like Prophage of <i>Actinomyces odontolyticus</i> Promotes Biofilm Assembly. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	3.1	20
57	Oral health and plaque microbial profile in juvenile idiopathic arthritis. <i>Pediatric Rheumatology</i> , 2019, 17, 81.	2.1	18
58	Correction for Gorby et al., Electrically conductive bacterial nanowires produced by <i>Shewanella oneidensis</i> strain MR-1 and other microorganisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9535-9535.	7.1	12
59	The Distinct Immune-Stimulatory Capacities of <i>Porphyromonas gingivalis</i> Strains 381 and ATCC 33277 Are Determined by the <i>fimB</i> Allele and Gingipain Activity. <i>Infection and Immunity</i> , 2019, 87, .	2.2	12
60	Draft Genome Sequence of <i>Candidatus Bacteroides perioicalifornicus</i> , a New Member of the Bacteroidetes Phylum Found within the Oral Microbiome of Periodontitis Patients. <i>Genome Announcements</i> , 2015, 3, .	0.8	11
61	Modified SHI medium supports growth of a disease-state subgingival polymicrobial community in vitro. <i>Molecular Oral Microbiology</i> , 2021, 36, 37-49.	2.7	11
62	Single cell genomics of bacterial pathogens: outlook for infectious disease research. <i>Genome Medicine</i> , 2014, 6, 108.	8.2	10
63	Draft Genome Sequence of Low-Passage Clinical Isolate <i>Porphyromonas gingivalis</i> MP4-504. <i>Genome Announcements</i> , 2016, 4, .	0.8	8
64	Identification of PGN_1123 as the Gene Encoding Lipid A Deacylase, an Enzyme Required for Toll-Like Receptor 4 Evasion, in <i>Porphyromonas gingivalis</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	8
65	Clinically Healthy Human Gingival Tissues Show Significant Inter-individual Variability in GCF Chemokine Expression and Subgingival Plaque Microbial Composition. <i>Frontiers in Oral Health</i> , 2021, 2, 689475.	3.0	7
66	Strain-Level Variation and Diverse Host Bacterial Responses in Episymbiotic Saccharibacteria. <i>MSystems</i> , 2022, 7, e0148821.	3.8	6
67	Draft Genome Sequence of <i>Tannerella forsythia</i> Clinical Isolate 9610. <i>Genome Announcements</i> , 2017, 5, .	0.8	4
68	Complete Genome Sequence of Strain BBO01, a Novel Epibiont Bacterium from the Candidate Phylum Saccharibacteria (TM7). <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	4
69	An estimate of biofilm properties using an acoustic microscope. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2006, 53, 1637-1648.	3.0	3
70	Isolation and Genome Analysis of Single Virions using 'Single Virus Genomics'. <i>Journal of Visualized Experiments</i> , 2013, , e3899.	0.3	1
71	High-Quality Draft Genome Sequence of Low-pH-Active <i>Veillonella parvula</i> Strain SHI-1, Isolated from Human Saliva within an In Vitro Oral Biofilm Model. <i>Genome Announcements</i> , 2016, 4, .	0.8	1
72	Focusing in on Microbial Biofilms with Advanced Imaging and Genomic Approaches. <i>Microscopy and Microanalysis</i> , 2012, 18, 18-19.	0.4	0