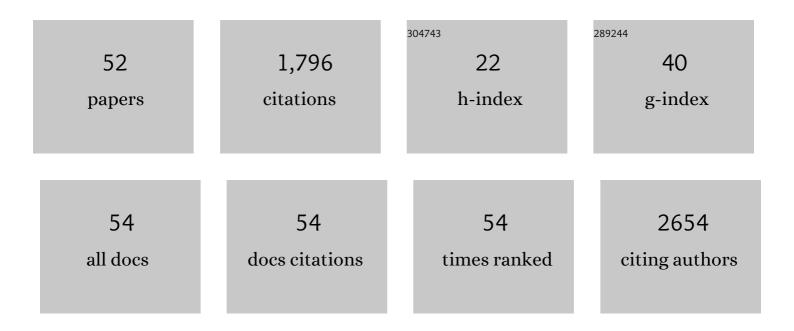
Jeff Bowman

List of Publications by Year in descending order

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IFFF ROWMAN

#	Article	IF	CITATIONS
1	Gut microbiome in Parkinson's disease: New insights from meta-analysis. Parkinsonism and Related Disorders, 2022, 94, 1-9.	2.2	55
2	Modeling polar marine ecosystem functions guided by bacterial physiological and taxonomic traits. Biogeosciences, 2022, 19, 117-136.	3.3	1
3	Machine Learning Predicts Biogeochemistry from Microbial Community Structure in a Complex Model System. Microbiology Spectrum, 2022, 10, e0190921.	3.0	7
4	Extremophile enzyme optimization for low temperature and high salinity are fundamentally incompatible. Extremophiles, 2022, 26, 5.	2.3	3
5	Leveraging Earth Hydrosphere Science in the Search for Life on Ocean Worlds. Oceanography, 2022, , .	1.0	0
6	Annual cycle observations of aerosols capable of ice formation in central Arctic clouds. Nature Communications, 2022, 13, .	12.8	19
7	Gut Microbial Ecosystem in Parkinson Disease: New Clinicobiological Insights from Multiâ€Omics. Annals of Neurology, 2021, 89, 546-559.	5.3	99
8	Whole Community Metatranscriptomes and Lipidomes Reveal Diverse Responses Among Antarctic Phytoplankton to Changing Ice Conditions. Frontiers in Marine Science, 2021, 8, .	2.5	4
9	Current state of athalassohaline deepâ€sea hypersaline anoxic basin research—recommendations for future work and relevance to astrobiology. Environmental Microbiology, 2021, 23, 3360-3369.	3.8	10
10	Salty Environments: The importance of evaporites and brine environments as habitats and preservers of biosignatures. , 2021, 53, .		3
11	Microbial diversity and activity in Southern California salterns and bitterns: analogues for remnant ocean worlds. Environmental Microbiology, 2021, 23, 3825-3839.	3.8	12
12	Sensitivity of the mangrove-estuarine microbial community to aquaculture effluent. IScience, 2021, 24, 102204.	4.1	12
13	Diversity in action: Solutions for a more diverse and inclusive decade of planetary science and astrobiology. , 2021, 53, .		0
14	Low diversity of a key phytoplankton group along the West Antarctic Peninsula. Limnology and Oceanography, 2021, 66, 2470-2480.	3.1	13
15	Recurrent microbial community types driven by nearshore and seasonal processes in coastal Southern California. Environmental Microbiology, 2021, 23, 3225-3239.	3.8	9
16	Making Sense of a Scent-Sensing Metaphor for Microbes and Environmental Predictions. MSystems, 2021, 6, e0099321.	3.8	1
17	Detection of Sulfate-Reducing Bacteria as an Indicator for Successful Mitigation of Sulfide Production. Applied and Environmental Microbiology, 2021, 87, e0174821.	3.1	3
18	Multi‥ear Seasonal Trends in Sea Ice, Chlorophyll Concentration, and Marine Aerosol Optical Depth in the Bellingshausen Sea. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034737.	3.3	9

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19	Climate change impacts on sea-ice ecosystems and associated ecosystem services. Elementa, 2021, 9, .	3.2	26
20	The Development and Deployment of a Programmable Water Sampling System Using an Autonomous Surface Vehicle. , 2021, , .		1
21	From microbial community structure to metabolic inference using paprica. STAR Protocols, 2021, 2, 101005.	1.2	4
22	Introducing the Mangrove Microbiome Initiative: Identifying Microbial Research Priorities and Approaches To Better Understand, Protect, and Rehabilitate Mangrove Ecosystems. MSystems, 2020, 5, .	3.8	40
23	The future of Arctic sea-ice biogeochemistry and ice-associated ecosystems. Nature Climate Change, 2020, 10, 983-992.	18.8	96
24	Using empirical dynamic modeling to assess relationships between atmospheric trace gases and eukaryotic phytoplankton populations in coastal Southern California. Marine Chemistry, 2020, 227, 103896.	2.3	2
25	Understanding Microbial Community Dynamics in Up-Flow Bioreactors to Improve Mitigation Strategies for Oil Souring. Frontiers in Microbiology, 2020, 11, 585943.	3.5	5
26	Editorial: Sea Ice: Bridging Spatial-Temporal Scales and Disciplines. Frontiers in Earth Science, 2020, 8, .	1.8	0
27	Extracellular superoxide production by key microbes in the global ocean. Limnology and Oceanography, 2019, 64, 2679-2693.	3.1	32
28	Ecosystem Service Supply in the Antarctic Peninsula Region: Evaluating an Expert-Based Assessment Approach and a Novel Seascape Data Model. Frontiers in Environmental Science, 2019, 7, .	3.3	8
29	The NASA Roadmap to Ocean Worlds. Astrobiology, 2019, 19, 1-27.	3.0	209
30	Impacts of <i>Zostera</i> eelgrasses on microbial community structure in San Diego coastal waters. Elementa, 2019, 7, .	3.2	8
31	Recurrent seascape units identify key ecological processes along the western Antarctic Peninsula. Global Change Biology, 2018, 24, 3065-3078.	9.5	13
32	Identification of Microbial Dark Matter in Antarctic Environments. Frontiers in Microbiology, 2018, 9, 3165.	3.5	26
33	The molecular products and biogeochemical significance of lipid photooxidation in West Antarctic surface waters. Geochimica Et Cosmochimica Acta, 2018, 232, 244-264.	3.9	11
34	Wind-driven distribution of bacteria in coastal Antarctica: evidence from the Ross Sea region. Polar Biology, 2017, 40, 25-35.	1.2	10
35	Bacterial community segmentation facilitates the prediction of ecosystem function along the coast of the western Antarctic Peninsula. ISME Journal, 2017, 11, 1460-1471.	9.8	53
36	Denitrification potential of the eastern oyster microbiome using a 16S rRNA gene based metabolic inference approach. PLoS ONE, 2017, 12, e0185071.	2.5	76

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37	The Astrobiology Primer v2.0. Astrobiology, 2016, 16, 561-653.	3.0	133
38	Microbial Community Dynamics in Two Polar Extremes: The Lakes of the McMurdo Dry Valleys and the West Antarctic Peninsula Marine Ecosystem. BioScience, 2016, 66, 829-847.	4.9	31
39	Methods for biogeochemical studies of sea ice: The state of the art, caveats, and recommendations. Elementa, 2015, 3, .	3.2	77
40	The relationship between sea ice bacterial community structure and biogeochemistry: A synthesis of current knowledge and known unknowns. Elementa, 2015, 3, .	3.2	26
41	Microbial Communities Can Be Described by Metabolic Structure: A General Framework and Application to a Seasonally Variable, Depth-Stratified Microbial Community from the Coastal West Antarctic Peninsula. PLoS ONE, 2015, 10, e0135868.	2.5	146
42	Frost flowers on young Arctic sea ice: The climatic, chemical, and microbial significance of an emerging ice type. Journal of Geophysical Research D: Atmospheres, 2014, 119, 11,593-11,612.	3.3	45
43	Alkane hydroxylase genes in psychrophile genomes and the potential for cold active catalysis. BMC Genomics, 2014, 15, 1120.	2.8	25
44	The genetic potential for key biogeochemical processes in Arctic frost flowers and young sea ice revealed by metagenomic analysis. FEMS Microbiology Ecology, 2014, 89, 376-387.	2.7	25
45	Bacterial diversity in snow on North Pole ice floes. Extremophiles, 2014, 18, 945-951.	2.3	26
46	Selective occurrence of <i><scp>R</scp>hizobiales</i> in frost flowers on the surface of young sea ice near <scp>B</scp> arrow, <scp>A</scp> laska and distribution in the polar marine rare biosphere. Environmental Microbiology Reports, 2013, 5, 575-582.	2.4	14
47	Did life originate from a global chemical reactor?. Geobiology, 2013, 11, 101-126.	2.4	99
48	Wide Distribution of Closely Related, Antibiotic-Producing Arthrobacter Strains throughout the Arctic Ocean. Applied and Environmental Microbiology, 2012, 78, 2039-2042.	3.1	33
49	Microbial community structure of Arctic multiyear sea ice and surface seawater by 454 sequencing of the 16S RNA gene. ISME Journal, 2012, 6, 11-20.	9.8	175
50	Elevated bacterial abundance and exopolymers in saline frost flowers and implications for atmospheric chemistry and microbial dispersal. Geophysical Research Letters, 2010, 37, .	4.0	45
51	Chemical and physical properties of some saline lakes in Alberta and Saskatchewan. Saline Systems, 2008, 4, 3.	2.0	11
52	The Bioburden and Ionic Composition of Hypersaline Lake Ices: Novel Habitats on Earth and Their Astrobiological Implications. Astrobiology, 0, , .	3.0	5