Carey D Nadell

List of Publications by Year
in descending order

40 papers	5,136 citations	26 h-index (218677)	41 g-index (276875)
56 all docs	56 docs citations	56 times ranked	5272 citing authors

#	Article	IF	Citations
1	An Alanine Aminotransferase Is Required for Biofilm-Specific Resistance of Aspergillus fumigatus to Echinocandin Treatment. MBio, 2022, 13, e0293321.	4.1	5
2	Social evolution of shared biofilm matrix components. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	14
3	Quantitative image analysis of microbial communities with BiofilmQ. Nature Microbiology, 2021, 6, 151-156.	13.3	181
4	A Heterogeneously Expressed Gene Family Modulates the Biofilm Architecture and Hypoxic Growth of <i>Aspergillus fumigatus</i>. MBio, 2021, 12, .	4.1	11
5	Both Pseudomonas aeruginosa and Candida albicans Accumulate Greater Biomass in Dual-Species Biofilms under Flow. MSphere, 2021, 6, e0041621.	2.9	14
6	Bacterial predation transforms the landscape and community assembly of biofilms. Current Biology, 2021, 31, 2643-2651.e3.	3.9	29
7	Let-7b-5p in vesicles secreted by human airway cells reduces biofilm formation and increases antibiotic sensitivity of <i>P. aeruginosa</i>. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
8	Matrix-trapped viruses can prevent invasion of bacterial biofilms by colonizing cells. ELife, 2021, 10, .	6.0	22
9	Differential Surface Competition and Biofilm Invasion Strategies of Pseudomonas aeruginosa PA14 and PAO1. Journal of Bacteriology, 2021, 203, e0026521.	2.2	7
10	Model Systems to Study the Chronic, Polymicrobial Infections in Cystic Fibrosis: Current Approaches and Exploring Future Directions. MBio, 2021, 12, e0176321.	4.1	26
11	Biofilm Structure Promotes Coexistence of Phage-Resistant and Phage-Susceptible Bacteria. MSystems, 2020, 5, .	3.8	52
12	Fungal biofilm architecture produces hypoxic microenvironments that drive antifungal resistance. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22473-22483.	7.1	63
13	Fungal biofilm morphology impacts hypoxia fitness and disease progression. Nature Microbiology, 2019, 4, 2430-2441.	13.3	81
14	<i>Vibrio cholerae</i> filamentation promotes chitin surface attachment at the expense of competition in biofilms. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14216-14221.	7.1	47
15	Cellular advective-diffusion drives the emergence of bacterial surface colonization patterns and heterogeneity. Nature Communications, 2019, 10, 2471.	12.8	30
16	A Conserved Regulatory Circuit Controls Large Adhesins in Vibrio cholerae. MBio, 2019, 10, .	4.1	29
17	Breakdown of Vibrio cholerae biofilm architecture induced by antibiotics disrupts community barrier function. Nature Microbiology, 2019, 4, 2136-2145.	13.3	64
18	Dynamic biofilm architecture confers individual and collective mechanisms of viral protection. Nature Microbiology, 2018, 3, 26-31.	13.3	231

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19	Phage mobility is a core determinant of phageâ€“bacteria coexistence in biofilms. ISME Journal, 2018, 12, 532-543.	9.8	120
20	Cell adhesion and fluid flow jointly initiate genotype spatial distribution in biofilms. PLoS Computational Biology, 2018, 14, e1006094.	3.2	31
21	Environmental fluctuation governs selection for plasticity in biofilm production. ISME Journal, 2017, 11, 1569-1577.	9.8	45
22	Vibrio cholerae Combines Individual and Collective Sensing to Trigger Biofilm Dispersal. Current Biology, 2017, 27, 3359-3366.e7.	3.9	83
23	Extracellular-matrix-mediated osmotic pressure drives Vibrio cholerae biofilm expansion and cheater exclusion. Nature Communications, 2017, 8, 327.	12.8	119
24	Flow environment and matrix structure interact to determine spatial competition in Pseudomonas aeruginosa biofilms. ELife, 2017, 6, .	6.0	65
25	Spatial structure, cooperation and competition in biofilms. Nature Reviews Microbiology, 2016, 14, 589-600.	28.6	757
26	An Emerging Grip on the Growth of Grounded Bacteria. ACS Nano, 2016, 10, 9109-9110.	14.6	3
27	Architectural transitions in <i>Vibrio cholerae</i> biofilms at single-cell resolution. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E2066-72.	7.1	178
28	The Mechanical World of Bacteria. Cell, 2015, 161, 988-997.	28.9	422
29	Extracellular matrix structure governs invasion resistance in bacterial biofilms. ISME Journal, 2015, 9, 1700-1709.	9.8	172
30	Adhesion as a weapon in microbial competition. ISME Journal, 2015, 9, 139-149.	9.8	156
31	Solutions to the Public Goods Dilemma in Bacterial Biofilms. Current Biology, 2014, 24, 50-55.	3.9	307
32	Cutting through the complexity of cell collectives. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122770.	2.6	111
33	Mutually helping microbes can evolve by hitchhiking. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 19037-19038.	7.1	8
34	The Evolution of Bacteriocin Production in Bacterial Biofilms. American Naturalist, 2011, 178, E162-E173.	2.1	87
35	Universality in Bacterial Colonies. Journal of Statistical Physics, 2011, 144, 303-315.	1.2	58
36	A fitness trade-off between local competition and dispersal in <i>Vibrio cholerae</i> biofilms. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14181-14185.	7.1	183

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37	Emergence of Spatial Structure in Cell Groups and the Evolution of Cooperation. PLoS Computational Biology, 2010, 6, e1000716.	3.2	314
38	The sociobiology of biofilms. FEMS Microbiology Reviews, 2009, 33, 206-224.	8.6	566
39	Observing bacteria through the lens of social evolution. Journal of Biology, 2008, 7, 27.	2.7	37
40	The Evolution of Quorum Sensing in Bacterial Biofilms. PLoS Biology, 2008, 6, e14.	5.6	343