

Forest Rohwer

List of Publications by Year in descending order

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127
papers

22,670
citations

16451

64
h-index

18130

120
g-index

141
all docs

141
docs citations

141
times ranked

17307
citing authors

#	ARTICLE	IF	CITATIONS
1	Viruses in the faecal microbiota of monozygotic twins and their mothers. <i>Nature</i> , 2010, 466, 334-338.	27.8	1,054
2	Genomic analysis of uncultured marine viral communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 14250-14255.	7.1	874
3	The Marine Viromes of Four Oceanic Regions. <i>PLoS Biology</i> , 2006, 4, e368.	5.6	867
4	Functional metagenomic profiling of nine biomes. <i>Nature</i> , 2008, 452, 629-632.	27.8	842
5	Development and Use of Personalized Bacteriophage-Based Therapeutic Cocktails To Treat a Patient with a Disseminated Resistant <i>Acinetobacter baumannii</i> Infection. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	795
6	Viral metagenomics. <i>Nature Reviews Microbiology</i> , 2005, 3, 504-510.	28.6	783
7	Bacteriophage adhering to mucus provide a non-“host-derived immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 10771-10776.	7.1	753
8	Baselines and Degradation of Coral Reefs in the Northern Line Islands. <i>PLoS ONE</i> , 2008, 3, e1548.	2.5	711
9	Metagenomic Analyses of an Uncultured Viral Community from Human Feces. <i>Journal of Bacteriology</i> , 2003, 185, 6220-6223.	2.2	699
10	Here a virus, there a virus, everywhere the same virus?. <i>Trends in Microbiology</i> , 2005, 13, 278-284.	7.7	687
11	RNA Viral Community in Human Feces: Prevalence of Plant Pathogenic Viruses. <i>PLoS Biology</i> , 2005, 4, e3.	5.6	589
12	Viruses manipulate the marine environment. <i>Nature</i> , 2009, 459, 207-212.	27.8	549
13	The Phage Proteomic Tree: a Genome-Based Taxonomy for Phage. <i>Journal of Bacteriology</i> , 2002, 184, 4529-4535.	2.2	529
14	Metagenomic analysis of the microbial community associated with the coral <i>Porites astreoides</i> . <i>Environmental Microbiology</i> , 2007, 9, 2707-2719.	3.8	520
15	Metagenomics and future perspectives in virus discovery. <i>Current Opinion in Virology</i> , 2012, 2, 63-77.	5.4	493
16	Three <i>Prochlorococcus</i> Cyanophage Genomes: Signature Features and Ecological Interpretations. <i>PLoS Biology</i> , 2005, 3, e144.	5.6	483
17	Metagenomic and Small-Subunit rRNA Analyses Reveal the Genetic Diversity of Bacteria, Archaea, Fungi, and Viruses in Soil. <i>Applied and Environmental Microbiology</i> , 2007, 73, 7059-7066.	3.1	480
18	Transfer of photosynthesis genes to and from <i>Prochlorococcus</i> viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 11013-11018.	7.1	477

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19	Using pyrosequencing to shed light on deep mine microbial ecology. BMC Genomics, 2006, 7, 57.	2.8	405
20	Viral and microbial community dynamics in four aquatic environments. ISME Journal, 2010, 4, 739-751.	9.8	387
21	Microbial Ecology of Four Coral Atolls in the Northern Line Islands. PLoS ONE, 2008, 3, e1584.	2.5	383
22	Going viral: next-generation sequencing applied to phage populations in the human gut. Nature Reviews Microbiology, 2012, 10, 607-617.	28.6	377
23	Multispecies Microbial Mutualisms on Coral Reefs: The Host as a Habitat. American Naturalist, 2003, 162, S51-S62.	2.1	372
24	Metagenomic Analysis of Respiratory Tract DNA Viral Communities in Cystic Fibrosis and Non-Cystic Fibrosis Individuals. PLoS ONE, 2009, 4, e7370.	2.5	359
25	Global Phage Diversity. Cell, 2003, 113, 141.	28.9	323
26	Viral diversity and dynamics in an infant gut. Research in Microbiology, 2008, 159, 367-373.	2.1	288
27	Bacteriophage Transcytosis Provides a Mechanism To Cross Epithelial Cell Layers. MBio, 2017, 8, .	4.1	273
28	Diversity and population structure of a near-“shore marine” sediment viral community. Proceedings of the Royal Society B: Biological Sciences, 2004, 271, 565-574.	2.6	272
29	Gut DNA viromes of Malawian twins discordant for severe acute malnutrition. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11941-11946.	7.1	262
30	Phage on tap—a quick and efficient protocol for the preparation of bacteriophage laboratory stocks. PeerJ, 2016, 4, e2261.	2.0	233
31	Coral and macroalgal exudates vary in neutral sugar composition and differentially enrich reef bacterioplankton lineages. ISME Journal, 2013, 7, 962-979.	9.8	228
32	Local genomic adaptation of coral reef-associated microbiomes to gradients of natural variability and anthropogenic stressors. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10227-10232.	7.1	220
33	Re-evaluating the health of coral reef communities: baselines and evidence for human impacts across the central Pacific. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20151985.	2.6	218
34	Effects of Coral Reef Benthic Primary Producers on Dissolved Organic Carbon and Microbial Activity. PLoS ONE, 2011, 6, e27973.	2.5	217
35	Viruses as Winners in the Game of Life. Annual Review of Virology, 2016, 3, 197-214.	6.7	215
36	Global microbialization of coral reefs. Nature Microbiology, 2016, 1, 16042.	13.3	214

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37	Photosystem I gene cassettes are present in marine virus genomes. <i>Nature</i> , 2009, 461, 258-262.	27.8	195
38	Global distribution of nearly identical phage-encoded DNA sequences. <i>FEMS Microbiology Letters</i> , 2004, 236, 249-256.	1.8	193
39	PHACCS, an online tool for estimating the structure and diversity of uncultured viral communities using metagenomic information. <i>BMC Bioinformatics</i> , 2005, 6, 41.	2.6	182
40	The GAAS Metagenomic Tool and Its Estimations of Viral and Microbial Average Genome Size in Four Major Biomes. <i>PLoS Computational Biology</i> , 2009, 5, e1000593.	3.2	177
41	Subdiffusive motion of bacteriophage in mucosal surfaces increases the frequency of bacterial encounters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13675-13680.	7.1	176
42	Metagenomic signatures of 86 microbial and viral metagenomes. <i>Environmental Microbiology</i> , 2009, 11, 1752-1766.	3.8	156
43	Method for discovering novel DNA viruses in blood using viral particle selection and shotgun sequencing. <i>BioTechniques</i> , 2005, 39, 729-736.	1.8	150
44	Metagenomics and metatranscriptomics: Windows on CF-associated viral and microbial communities. <i>Journal of Cystic Fibrosis</i> , 2013, 12, 154-164.	0.7	142
45	An application of statistics to comparative metagenomics. <i>BMC Bioinformatics</i> , 2006, 7, 162.	2.6	135
46	A bacterial metapopulation adapts locally to phage predation despite global dispersal. <i>Genome Research</i> , 2008, 18, 293-297.	5.5	135
47	Comparative metagenomics of microbial traits within oceanic viral communities. <i>ISME Journal</i> , 2011, 5, 1178-1190.	9.8	135
48	Movement of Viruses between Biomes. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5842-5846.	3.1	128
49	Viral communities associated with healthy and bleaching corals. <i>Environmental Microbiology</i> , 2008, 10, 2277-2286.	3.8	125
50	Metagenomic detection of phage-encoded platelet-binding factors in the human oral cavity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4547-4553.	7.1	123
51	Clinical Insights from Metagenomic Analysis of Sputum Samples from Patients with Cystic Fibrosis. <i>Journal of Clinical Microbiology</i> , 2014, 52, 425-437.	3.9	120
52	Breath gas metabolites and bacterial metagenomes from cystic fibrosis airways indicate active pH neutral 2,3-butanedione fermentation. <i>ISME Journal</i> , 2014, 8, 1247-1258.	9.8	114
53	Three-Dimensional Microbiome and Metabolome Cartography of a Diseased Human Lung. <i>Cell Host and Microbe</i> , 2017, 22, 705-716.e4.	11.0	111
54	Distribution and Diversity of Archaeal Ammonia Monooxygenase Genes Associated with Corals. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5642-5647.	3.1	107

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55	Global distribution of nearly identical phage-encoded DNA sequences. <i>FEMS Microbiology Letters</i> , 2004, 236, 249-256.	1.8	105
56	Influence of coral and algal exudates on microbially mediated reef metabolism. <i>PeerJ</i> , 2013, 1, e108.	2.0	104
57	Case Studies of the Spatial Heterogeneity of DNA Viruses in the Cystic Fibrosis Lung. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 46, 127-131.	2.9	102
58	Hyperspectral and Physiological Analyses of Coral-Algal Interactions. <i>PLoS ONE</i> , 2009, 4, e8043.	2.5	98
59	Cystic Fibrosis Therapy: A Community Ecology Perspective. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 48, 150-156.	2.9	94
60	Mass spectral similarity for untargeted metabolomics data analysis of complex mixtures. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 719-727.	1.5	90
61	Marine phage genomics. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2002, 133, 463-476.	1.6	85
62	Assessing Coral Reefs on a Pacific-Wide Scale Using the Microbialization Score. <i>PLoS ONE</i> , 2012, 7, e43233.	2.5	81
63	Ecological networking of cystic fibrosis lung infections. <i>Npj Biofilms and Microbiomes</i> , 2016, 2, 4.	6.4	77
64	Coral Microbiology. <i>Oceanography</i> , 2007, 20, 146-154.	1.0	72
65	Oxygen minimum zones harbour novel viral communities with low diversity. <i>Environmental Microbiology</i> , 2012, 14, 3043-3065.	3.8	68
66	Black reefs: iron-induced phase shifts on coral reefs. <i>ISME Journal</i> , 2012, 6, 638-649.	9.8	65
67	Genome Sequences of Two Closely Related <i>Vibrio parahaemolyticus</i> Phages, VP16T and VP16C. <i>Journal of Bacteriology</i> , 2003, 185, 6434-6447.	2.2	60
68	A Winogradsky-based culture system shows an association between microbial fermentation and cystic fibrosis exacerbation. <i>ISME Journal</i> , 2015, 9, 1024-1038.	9.8	59
69	Variability and host density independence in inductions-based estimates of environmental lysogeny. <i>Nature Microbiology</i> , 2017, 2, 17064.	13.3	57
70	Multilevel Research Strategies and Biological Systems. <i>Philosophy of Science</i> , 2014, 81, 811-828.	1.0	56
71	Metabolomics of reef benthic interactions reveals a bioactive lipid involved in coral defence. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160469.	2.6	55
72	Dietary prophage inducers and antimicrobials: toward landscaping the human gut microbiome. <i>Gut Microbes</i> , 2020, 11, 721-734.	9.8	54

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73	Widespread occurrence of phage-encoded exotoxin genes in terrestrial and aquatic environments in Southern California. FEMS Microbiology Letters, 2006, 261, 141-149.	1.8	52
74	A century of phage lessons. Nature, 2015, 528, 46-47.	27.8	52
75	Mechanistic Model of <i>Rothia mucilaginosa</i> Adaptation toward Persistence in the CF Lung, Based on a Genome Reconstructed from Metagenomic Data. PLoS ONE, 2013, 8, e64285.	2.5	51
76	The landscape of lysogeny across microbial community density, diversity and energetics. Environmental Microbiology, 2021, 23, 4098-4111.	3.8	50
77	A diversity-generating retroelement encoded by a globally ubiquitous Bacteroides phage. Microbiome, 2018, 6, 191.	11.1	48
78	A multiomic analysis of in situ coral-turf algal interactions. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13588-13595.	7.1	48
79	Reconstructing a puzzle: existence of cyanophages containing both photosystem I and photosystem II gene suites inferred from oceanic metagenomic datasets. Environmental Microbiology, 2011, 13, 24-32.	3.8	46
80	Metabolomics of pulmonary exacerbations reveals the personalized nature of cystic fibrosis disease. PeerJ, 2016, 4, e2174.	2.0	45
81	Visualization of oxygen distribution patterns caused by coral and algae. PeerJ, 2013, 1, e106.	2.0	43
82	Application of Finite-Time and Control Thermodynamics to Biological Processes at Multiple Scales. Journal of Non-Equilibrium Thermodynamics, 2018, 43, 193-210.	4.2	42
83	The Human Virome. , 2011, , 63-77.		40
84	Spatial Molecular Architecture of the Microbial Community of a <i>Peltigera</i> Lichen. MSystems, 2016, 1, .	3.8	36
85	Fish or Germs? Microbial Dynamics Associated with Changing Trophic Structures on Coral Reefs. , 2011, , 231-240.		33
86	Viral information. Biology and Philosophy, 2013, 28, 283-297.	1.4	33
87	Metagenomic and satellite analyses of red snow in the Russian Arctic. PeerJ, 2015, 3, e1491.	2.0	33
88	Structure and function of a cyanophage-encoded peptide deformylase. ISME Journal, 2013, 7, 1150-1160.	9.8	32
89	Consider something viral in your research. Nature Reviews Microbiology, 2011, 9, 308-309.	28.6	31
90	Can we measure beauty? Computational evaluation of coral reef aesthetics. PeerJ, 2015, 3, e1390.	2.0	31

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91	Scratching the Surface of Biology's Dark Matter. , 2012, , 61-81.		30
92	Energetic differences between bacterioplankton trophic groups and coral reef resistance. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160467.	2.6	30
93	Impact of bacteria motility in the encounter rates with bacteriophage in mucus. Scientific Reports, 2019, 9, 16427.	3.3	28
94	Diel population and functional synchrony of microbial communities on coral reefs. Nature Communications, 2019, 10, 1691.	12.8	28
95	Molecular and Microbial Microenvironments in Chronically Diseased Lungs Associated with Cystic Fibrosis. MSystems, 2019, 4, .	3.8	23
96	Virulence as a Side Effect of Interspecies Interaction in <i>Vibrio</i> Coral Pathogens. MBio, 2020, 11, .	4.1	23
97	Purifying the Impure: Sequencing Metagenomes and Metatranscriptomes from Complex Animal-associated Samples. Journal of Visualized Experiments, 2014, , .	0.3	21
98	Before platelets: the production of platelet-activating factor during growth and stress in a basal marine organism. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20181307.	2.6	20
99	Cystic Fibrosis Rapid Response: Translating Multi-omics Data into Clinically Relevant Information. MBio, 2019, 10, .	4.1	20
100	Biophysical and physiological processes causing oxygen loss from coral reefs. ELife, 2019, 8, .	6.0	19
101	Sequencing at sea: challenges and experiences in Ion Torrent PGM sequencing during the 2013 Southern Line Islands Research Expedition. PeerJ, 2014, 2, e520.	2.0	19
102	Unraveling the Unseen Players in the Ocean - A Field Guide to Water Chemistry and Marine Microbiology. Journal of Visualized Experiments, 2014, , e52131.	0.3	18
103	Knowles & Rohwer reply. Nature, 2017, 549, E3-E4.	27.8	17
104	Distribution of soil viruses across China and their potential role in phosphorous metabolism. Environmental Microbiomes, 2022, 17, 6.	5.0	17
105	Some of the most interesting <i>CASP</i> 11 targets through the eyes of their authors. Proteins: Structure, Function and Bioinformatics, 2016, 84, 34-50.	2.6	16
106	Multi-Omics Study of Keystone Species in a Cystic Fibrosis Microbiome. International Journal of Molecular Sciences, 2021, 22, 12050.	4.1	14
107	Real-time microbial ecology. Environmental Microbiology, 2007, 9, 10-10.	3.8	11
108	Three-Dimensional Molecular Cartography of the Caribbean Reef-Building Coral <i>Orbicella faveolata</i> . Frontiers in Marine Science, 2021, 8, .	2.5	11

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109	Diversity of viral photosystem-I <i>psaA</i> genes. ISME Journal, 2015, 9, 1892-1898.	9.8	10
110	Heat output by marine microbial and viral communities. Journal of Non-Equilibrium Thermodynamics, 2012, 37, .	4.2	9
111	Phage Ecology and Bacterial Pathogenesis. , 0, , 66-91.		9
112	Explaining microbial population genomics through phage predation. Nature Precedings, 0, , .	0.1	8
113	Phage Phenomics: Physiological Approaches to Characterize Novel Viral Proteins. Journal of Visualized Experiments, 2015, , e52854.	0.3	8
114	Closing the gaps on the viral photosystemâ€œ... <i>psa</i> DCAB gene organization. Environmental Microbiology, 2015, 17, 5100-5108.	3.8	7
115	Space-filling and benthic competition on coral reefs. PeerJ, 2021, 9, e11213.	2.0	7
116	Presence of SARS-CoV-2 RNA on Surfaces of Public Places and a Transportation System Located in a Densely Populated Urban Area in South America. Viruses, 2022, 14, 19.	3.3	6
117	Building an OptiPlanet collaboratory to support microbial metagenomics. Future Generation Computer Systems, 2009, 25, 124-131.	7.5	5
118	The aquatic automated dosing and maintenance system (AADAMS). Limnology and Oceanography: Methods, 2006, 4, 184-192.	2.0	4
119	Dissecting microbial employment. Nature Biotechnology, 2008, 26, 997-998.	17.5	3
120	Metabolic cascades in marine microbial communities. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5552-5553.	7.1	3
121	Bacteriophage can drive virulence in marine pathogens. , 2020, , 73-82.		3
122	Swabbing the Urban Environment - A Pipeline for Sampling and Detection of SARS-CoV-2 From Environmental Reservoirs. Journal of Visualized Experiments, 2021, , .	0.3	2
123	Explaining microbial population genomics through phage predation. Nature Precedings, 0, , .	0.1	2
124	SPIDERS: A syringe pump system for in situ underwater dosing of benthic organisms. Limnology and Oceanography: Methods, 2005, 3, 38-45.	2.0	1
125	Gp4 is a nuclease required for morphogenesis of T4-like bacteriophages. Virology, 2020, 543, 7-12.	2.4	1
126	Deviations from Ultrametricity in Phage Protein Distances. Open Systems and Information Dynamics, 2009, 16, 75-84.	1.2	0

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127	Stochastic Tracking of Infection in a CF Lung. PLoS ONE, 2014, 9, e111245.	2.5	0