

Forest Rohwer

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

22,670
citations

18887

64
h-index

20625

120
g-index

141
all docs

141
docs citations

141
times ranked

19253
citing authors

#	ARTICLE	IF	CITATIONS
1	Distribution of soil viruses across China and their potential role in phosphorous metabolism. <i>Environmental Microbiomes</i> , 2022, 17, 6.	2.2	17
2	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. <i>Viruses</i> , 2022, 14, 19.	1.5	6
3	Three-Dimensional Molecular Cartography of the Caribbean Reef-Building Coral <i>Orbicella faveolata</i> . <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	11
4	Swabbing the Urban Environment - A Pipeline for Sampling and Detection of SARS-CoV-2 From Environmental Reservoirs. <i>Journal of Visualized Experiments</i> , 2021, , .	0.2	2
5	The landscape of lysogeny across microbial community density, diversity and energetics. <i>Environmental Microbiology</i> , 2021, 23, 4098-4111.	1.8	50
6	Space-filling and benthic competition on coral reefs. <i>PeerJ</i> , 2021, 9, e11213.	0.9	7
7	Multi-Omics Study of Keystone Species in a Cystic Fibrosis Microbiome. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12050.	1.8	14
8	Dietary prophage inducers and antimicrobials: toward landscaping the human gut microbiome. <i>Gut Microbes</i> , 2020, 11, 721-734.	4.3	54
9	Virulence as a Side Effect of Interspecies Interaction in <i>Vibrio</i> Coral Pathogens. <i>MBio</i> , 2020, 11, .	1.8	23
10	A multiomic analysis of in situ coral-turf algal interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13588-13595.	3.3	48
11	Gp4 is a nuclease required for morphogenesis of T4-like bacteriophages. <i>Virology</i> , 2020, 543, 7-12.	1.1	1
12	Bacteriophage can drive virulence in marine pathogens. , 2020, , 73-82.		3
13	Impact of bacteria motility in the encounter rates with bacteriophage in mucus. <i>Scientific Reports</i> , 2019, 9, 16427.	1.6	28
14	Molecular and Microbial Microenvironments in Chronically Diseased Lungs Associated with Cystic Fibrosis. <i>MSystems</i> , 2019, 4, .	1.7	23
15	Cystic Fibrosis Rapid Response: Translating Multi-omics Data into Clinically Relevant Information. <i>MBio</i> , 2019, 10, .	1.8	20
16	Diel population and functional synchrony of microbial communities on coral reefs. <i>Nature Communications</i> , 2019, 10, 1691.	5.8	28
17	Biophysical and physiological processes causing oxygen loss from coral reefs. <i>ELife</i> , 2019, 8, .	2.8	19
18	A diversity-generating retroelement encoded by a globally ubiquitous <i>Bacteroides</i> phage. <i>Microbiome</i> , 2018, 6, 191.	4.9	48

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19	Before platelets: the production of platelet-activating factor during growth and stress in a basal marine organism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181307.	1.2	20
20	Application of Finite-Time and Control Thermodynamics to Biological Processes at Multiple Scales. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2018, 43, 193-210.	2.4	42
21	Variability and host density independence in inductions-based estimates of environmental lysogeny. <i>Nature Microbiology</i> , 2017, 2, 17064.	5.9	57
22	Three-Dimensional Microbiome and Metabolome Cartography of a Diseased Human Lung. <i>Cell Host and Microbe</i> , 2017, 22, 705-716.e4.	5.1	111
23	Knowles & Rohwer reply. <i>Nature</i> , 2017, 549, E3-E4.	13.7	17
24	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, .	1.4	795
25	Bacteriophage Transcytosis Provides a Mechanism To Cross Epithelial Cell Layers. <i>MBio</i> , 2017, 8, .	1.8	273
26	Phage on tap—a quick and efficient protocol for the preparation of bacteriophage laboratory stocks. <i>PeerJ</i> , 2016, 4, e2261.	0.9	233
27	Spatial Molecular Architecture of the Microbial Community of a <i>Peltigera</i> Lichen. <i>MSystems</i> , 2016, 1, .	1.7	36
28	Some of the most interesting <i>CASP</i> 11 targets through the eyes of their authors. <i>Proteins: Structure, Function and Bioinformatics</i> , 2016, 84, 34-50.	1.5	16
29	Energetic differences between bacterioplankton trophic groups and coral reef resistance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160467.	1.2	30
30	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.	1.2	55
31	Viruses as Winners in the Game of Life. <i>Annual Review of Virology</i> , 2016, 3, 197-214.	3.0	215
32	Global microbialization of coral reefs. <i>Nature Microbiology</i> , 2016, 1, 16042.	5.9	214
33	Ecological networking of cystic fibrosis lung infections. <i>Npj Biofilms and Microbiomes</i> , 2016, 2, 4.	2.9	77
34	Re-evaluating the health of coral reef communities: baselines and evidence for human impacts across the central Pacific. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20151985.	1.2	218
35	Metabolomics of pulmonary exacerbations reveals the personalized nature of cystic fibrosis disease. <i>PeerJ</i> , 2016, 4, e2174.	0.9	45
36	Closing the gaps on the viral photosystem I gene organization. <i>Environmental Microbiology</i> , 2015, 17, 5100-5108.	1.8	7

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37	Phage Phenomics: Physiological Approaches to Characterize Novel Viral Proteins. <i>Journal of Visualized Experiments</i> , 2015, , e52854.	0.2	8
38	Can we measure beauty? Computational evaluation of coral reef aesthetics. <i>PeerJ</i> , 2015, 3, e1390.	0.9	31
39	A Winogradsky-based culture system shows an association between microbial fermentation and cystic fibrosis exacerbation. <i>ISME Journal</i> , 2015, 9, 1024-1038.	4.4	59
40	Diversity of viral photosystem-I <i>psaA</i> genes. <i>ISME Journal</i> , 2015, 9, 1892-1898.	4.4	10
41	Metabolic cascades in marine microbial communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5552-5553.	3.3	3
42	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.	3.3	176
43	Gut DNA viromes of Malawian twins discordant for severe acute malnutrition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11941-11946.	3.3	262
44	A century of phage lessons. <i>Nature</i> , 2015, 528, 46-47.	13.7	52
45	Mass spectral similarity for untargeted metabolomics data analysis of complex mixtures. <i>International Journal of Mass Spectrometry</i> , 2015, 377, 719-727.	0.7	90
46	Metagenomic and satellite analyses of red snow in the Russian Arctic. <i>PeerJ</i> , 2015, 3, e1491.	0.9	33
47	Multilevel Research Strategies and Biological Systems. <i>Philosophy of Science</i> , 2014, 81, 811-828.	0.5	56
48	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.	4.4	114
49	Local genomic adaptation of coral reef-associated microbiomes to gradients of natural variability and anthropogenic stressors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10227-10232.	3.3	220
50	Clinical Insights from Metagenomic Analysis of Sputum Samples from Patients with Cystic Fibrosis. <i>Journal of Clinical Microbiology</i> , 2014, 52, 425-437.	1.8	120
51	Purifying the Impure: Sequencing Metagenomes and Metatranscriptomes from Complex Animal-associated Samples. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	21
52	Unraveling the Unseen Players in the Ocean - A Field Guide to Water Chemistry and Marine Microbiology. <i>Journal of Visualized Experiments</i> , 2014, , e52131.	0.2	18
53	Sequencing at sea: challenges and experiences in Ion Torrent PGM sequencing during the 2013 Southern Line Islands Research Expedition. <i>PeerJ</i> , 2014, 2, e520.	0.9	19
54	Stochastic Tracking of Infection in a CF Lung. <i>PLoS ONE</i> , 2014, 9, e111245.	1.1	0

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55	Metagenomics and metatranscriptomics: Windows on CF-associated viral and microbial communities. <i>Journal of Cystic Fibrosis</i> , 2013, 12, 154-164.	0.3	142
56	Cystic Fibrosis Therapy: A Community Ecology Perspective. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 48, 150-156.	1.4	94
57	Coral and macroalgal exudates vary in neutral sugar composition and differentially enrich reef bacterioplankton lineages. <i>ISME Journal</i> , 2013, 7, 962-979.	4.4	228
58	Structure and function of a cyanophage-encoded peptide deformylase. <i>ISME Journal</i> , 2013, 7, 1150-1160.	4.4	32
59	Viral information. <i>Biology and Philosophy</i> , 2013, 28, 283-297.	0.7	33
60	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.	3.3	753
61	Mechanistic Model of <i>Rothia mucilaginosa</i> Adaptation toward Persistence in the CF Lung, Based on a Genome Reconstructed from Metagenomic Data. <i>PLoS ONE</i> , 2013, 8, e64285.	1.1	51
62	Visualization of oxygen distribution patterns caused by coral and algae. <i>PeerJ</i> , 2013, 1, e106.	0.9	43
63	Influence of coral and algal exudates on microbially mediated reef metabolism. <i>PeerJ</i> , 2013, 1, e108.	0.9	104
64	Black reefs: iron-induced phase shifts on coral reefs. <i>ISME Journal</i> , 2012, 6, 638-649.	4.4	65
65	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.	1.4	102
66	Heat output by marine microbial and viral communities. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2012, 37, .	2.4	9
67	Going viral: next-generation sequencing applied to phage populations in the human gut. <i>Nature Reviews Microbiology</i> , 2012, 10, 607-617.	13.6	377
68	Metagenomics and future perspectives in virus discovery. <i>Current Opinion in Virology</i> , 2012, 2, 63-77.	2.6	493
69	Oxygen minimum zones harbour novel viral communities with low diversity. <i>Environmental Microbiology</i> , 2012, 14, 3043-3065.	1.8	68
70	Scratching the Surface of Biology’s Dark Matter. , 2012, , 61-81.		30
71	Assessing Coral Reefs on a Pacific-Wide Scale Using the Microbialization Score. <i>PLoS ONE</i> , 2012, 7, e43233.	1.1	81
72	Fish or Germs? Microbial Dynamics Associated with Changing Trophic Structures on Coral Reefs. , 2011, , 231-240.		33

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73	Effects of Coral Reef Benthic Primary Producers on Dissolved Organic Carbon and Microbial Activity. PLoS ONE, 2011, 6, e27973.	1.1	217
74	Reconstructing a puzzle: existence of cyanophages containing both photosystemâ€” and photosystemâ€” gene suites inferred from oceanic metagenomic datasets. Environmental Microbiology, 2011, 13, 24-32.	1.8	46
75	Comparative metagenomics of microbial traits within oceanic viral communities. ISME Journal, 2011, 5, 1178-1190.	4.4	135
76	Consider something viral in your research. Nature Reviews Microbiology, 2011, 9, 308-309.	13.6	31
77	Metagenomic detection of phage-encoded platelet-binding factors in the human oral cavity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 4547-4553.	3.3	123
78	The Human Virome. , 2011, , 63-77.		40
79	Viral and microbial community dynamics in four aquatic environments. ISME Journal, 2010, 4, 739-751.	4.4	387
80	Viruses in the faecal microbiota of monozygotic twins and their mothers. Nature, 2010, 466, 334-338.	13.7	1,054
81	Hyperspectral and Physiological Analyses of Coral-Algal Interactions. PLoS ONE, 2009, 4, e8043.	1.1	98
82	Deviations from Ultrametricity in Phage Protein Distances. Open Systems and Information Dynamics, 2009, 16, 75-84.	0.5	0
83	The GAAS Metagenomic Tool and Its Estimations of Viral and Microbial Average Genome Size in Four Major Biomes. PLoS Computational Biology, 2009, 5, e1000593.	1.5	177
84	Viruses manipulate the marine environment. Nature, 2009, 459, 207-212.	13.7	549
85	Photosystem I gene cassettes are present in marine virus genomes. Nature, 2009, 461, 258-262.	13.7	195
86	Metagenomic signatures of 86 microbial and viral metagenomes. Environmental Microbiology, 2009, 11, 1752-1766.	1.8	156
87	Building an OptiPlanet collaboratory to support microbial metagenomics. Future Generation Computer Systems, 2009, 25, 124-131.	4.9	5
88	Metagenomic Analysis of Respiratory Tract DNA Viral Communities in Cystic Fibrosis and Non-Cystic Fibrosis Individuals. PLoS ONE, 2009, 4, e7370.	1.1	359
89	Functional metagenomic profiling of nine biomes. Nature, 2008, 452, 629-632.	13.7	842
90	Viral communities associated with healthy and bleaching corals. Environmental Microbiology, 2008, 10, 2277-2286.	1.8	125

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91	Viral diversity and dynamics in an infant gut. <i>Research in Microbiology</i> , 2008, 159, 367-373.	1.0	288
92	Dissecting microbial employment. <i>Nature Biotechnology</i> , 2008, 26, 997-998.	9.4	3
93	A bacterial metapopulation adapts locally to phage predation despite global dispersal. <i>Genome Research</i> , 2008, 18, 293-297.	2.4	135
94	Baselines and Degradation of Coral Reefs in the Northern Line Islands. <i>PLoS ONE</i> , 2008, 3, e1548.	1.1	711
95	Microbial Ecology of Four Coral Atolls in the Northern Line Islands. <i>PLoS ONE</i> , 2008, 3, e1584.	1.1	383
96	Distribution and Diversity of Archaeal Ammonia Monooxygenase Genes Associated with Corals. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5642-5647.	1.4	107
97	Real-time microbial ecology. <i>Environmental Microbiology</i> , 2007, 9, 10-10.	1.8	11
98	Metagenomic analysis of the microbial community associated with the coral <i>Porites astreoides</i> . <i>Environmental Microbiology</i> , 2007, 9, 2707-2719.	1.8	520
99	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.	1.4	480
100	Coral Microbiology. <i>Oceanography</i> , 2007, 20, 146-154.	0.5	72
101	The aquatic automated dosing and maintenance system (AADAMS). <i>Limnology and Oceanography: Methods</i> , 2006, 4, 184-192.	1.0	4
102	Widespread occurrence of phage-encoded exotoxin genes in terrestrial and aquatic environments in Southern California. <i>FEMS Microbiology Letters</i> , 2006, 261, 141-149.	0.7	52
103	An application of statistics to comparative metagenomics. <i>BMC Bioinformatics</i> , 2006, 7, 162.	1.2	135
104	Using pyrosequencing to shed light on deep mine microbial ecology. <i>BMC Genomics</i> , 2006, 7, 57.	1.2	405
105	The Marine Viromes of Four Oceanic Regions. <i>PLoS Biology</i> , 2006, 4, e368.	2.6	867
106	SPIDERS: A syringe pump system for in situ underwater dosing of benthic organisms. <i>Limnology and Oceanography: Methods</i> , 2005, 3, 38-45.	1.0	1
107	Viral metagenomics. <i>Nature Reviews Microbiology</i> , 2005, 3, 504-510.	13.6	783
108	PHACCS, an online tool for estimating the structure and diversity of uncultured viral communities using metagenomic information. <i>BMC Bioinformatics</i> , 2005, 6, 41.	1.2	182

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109	RNA Viral Community in Human Feces: Prevalence of Plant Pathogenic Viruses. <i>PLoS Biology</i> , 2005, 4, e3.	2.6	589
110	Three Prochlorococcus Cyanophage Genomes: Signature Features and Ecological Interpretations. <i>PLoS Biology</i> , 2005, 3, e144.	2.6	483
111	Method for discovering novel DNA viruses in blood using viral particle selection and shotgun sequencing. <i>BioTechniques</i> , 2005, 39, 729-736.	0.8	150
112	Here a virus, there a virus, everywhere the same virus?. <i>Trends in Microbiology</i> , 2005, 13, 278-284.	3.5	687
113	Movement of Viruses between Biomes. <i>Applied and Environmental Microbiology</i> , 2004, 70, 5842-5846.	1.4	128
114	Diversity and population structure of a near-shore marine sediment viral community. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, 565-574.	1.2	272
115	Global distribution of nearly identical phage-encoded DNA sequences. <i>FEMS Microbiology Letters</i> , 2004, 236, 249-256.	0.7	193
116	Transfer of photosynthesis genes to and from Prochlorococcus viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 11013-11018.	3.3	477
117	Global distribution of nearly identical phage-encoded DNA sequences. <i>FEMS Microbiology Letters</i> , 2004, 236, 249-256.	0.7	105
118	Metagenomic Analyses of an Uncultured Viral Community from Human Feces. <i>Journal of Bacteriology</i> , 2003, 185, 6220-6223.	1.0	699
119	Multispecies Microbial Mutualisms on Coral Reefs: The Host as a Habitat. <i>American Naturalist</i> , 2003, 162, S51-S62.	1.0	372
120	Global Phage Diversity. <i>Cell</i> , 2003, 113, 141.	13.5	323
121	Genome Sequences of Two Closely Related <i>Vibrio parahaemolyticus</i> Phages, VP16T and VP16C. <i>Journal of Bacteriology</i> , 2003, 185, 6434-6447.	1.0	60
122	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.	3.3	874
123	The Phage Proteomic Tree: a Genome-Based Taxonomy for Phage. <i>Journal of Bacteriology</i> , 2002, 184, 4529-4535.	1.0	529
124	Marine phage genomics. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2002, 133, 463-476.	0.7	85
125	Explaining microbial population genomics through phage predation. <i>Nature Precedings</i> , 0, , .	0.1	8
126	Explaining microbial population genomics through phage predation. <i>Nature Precedings</i> , 0, , .	0.1	2

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127	Phage Ecology and Bacterial Pathogenesis. , 0, , 66-91.		9