

K Eric Wommack

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

6,508
citations

126907

33
h-index

189892

50
g-index

55
all docs

55
docs citations

55
times ranked

5918
citing authors

#	ARTICLE	IF	CITATIONS
1	Virioplankton: Viruses in Aquatic Ecosystems. <i>Microbiology and Molecular Biology Reviews</i> , 2000, 64, 69-114.	6.6	1,790
2	Minimum Information about an Uncultivated Virus Genome (MIUViG). <i>Nature Biotechnology</i> , 2019, 37, 29-37.	17.5	414
3	Metagenomics: Read Length Matters. <i>Applied and Environmental Microbiology</i> , 2008, 74, 1453-1463.	3.1	295
4	Viruses in Soil Ecosystems: An Unknown Quantity Within an Unexplored Territory. <i>Annual Review of Virology</i> , 2017, 4, 201-219.	6.7	270
5	Re-examination of the relationship between marine virus and microbial cell abundances. <i>Nature Microbiology</i> , 2016, 1, 15024.	13.3	264
6	Abundance and Diversity of Viruses in Six Delaware Soils. <i>Applied and Environmental Microbiology</i> , 2005, 71, 3119-3125.	3.1	252
7	Global-scale processes with a nanoscale drive: the role of marine viruses. <i>ISME Journal</i> , 2008, 2, 575-578.	9.8	226
8	A multitrophic model to quantify the effects of marine viruses on microbial food webs and ecosystem processes. <i>ISME Journal</i> , 2015, 9, 1352-1364.	9.8	223
9	Metagenomic Characterization of Chesapeake Bay Virioplankton. <i>Applied and Environmental Microbiology</i> , 2007, 73, 7629-7641.	3.1	199
10	Phages across the biosphere: contrasts of viruses in soil and aquatic environments. <i>Research in Microbiology</i> , 2008, 159, 349-357.	2.1	184
11	Population Dynamics of Chesapeake Bay Virioplankton: Total-Community Analysis by Pulsed-Field Gel Electrophoresis. <i>Applied and Environmental Microbiology</i> , 1999, 65, 231-240.	3.1	181
12	VIROME: a standard operating procedure for analysis of viral metagenome sequences. <i>Standards in Genomic Sciences</i> , 2012, 6, 427-439.	1.5	169
13	Sampling Natural Viral Communities from Soil for Culture-Independent Analyses. <i>Applied and Environmental Microbiology</i> , 2003, 69, 6628-6633.	3.1	144
14	Incidence of lysogeny within temperate and extreme soil environments. <i>Environmental Microbiology</i> , 2007, 9, 2563-2574.	3.8	142
15	Prevalence of Lysogeny among Soil Bacteria and Presence of 16S rRNA and <i>trzN</i> Genes in Viral-Community DNA. <i>Applied and Environmental Microbiology</i> , 2008, 74, 495-502.	3.1	122
16	Dynamic bacterial and viral response to an algal bloom at subzero temperatures. <i>Limnology and Oceanography</i> , 2001, 46, 790-801.	3.1	121
17	Acyl-Homoserine Lactones Can Induce Virus Production in Lysogenic Bacteria: an Alternative Paradigm for Prophage Induction. <i>Applied and Environmental Microbiology</i> , 2009, 75, 7142-7152.	3.1	116
18	Caught in the middle with multiple displacement amplification: the myth of pooling for avoiding multiple displacement amplification bias in a metagenome. <i>Microbiome</i> , 2014, 2, 3.	11.1	105

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19	Evaluation of a Transposase Protocol for Rapid Generation of Shotgun High-Throughput Sequencing Libraries from Nanogram Quantities of DNA. <i>Applied and Environmental Microbiology</i> , 2011, 77, 8071-8079.	3.1	89
20	Impacts of Poultry House Environment on Poultry Litter Bacterial Community Composition. <i>PLoS ONE</i> , 2011, 6, e24785.	2.5	79
21	Hybridization Analysis of Chesapeake Bay Virioplankton. <i>Applied and Environmental Microbiology</i> , 1999, 65, 241-250.	3.1	78
22	Iroki: automatic customization and visualization of phylogenetic trees. <i>PeerJ</i> , 2020, 8, e8584.	2.0	78
23	Single cell genomics indicates horizontal gene transfer and viral infections in a deep subsurface Firmicutes population. <i>Frontiers in Microbiology</i> , 2015, 6, 349.	3.5	61
24	Repeating patterns of virioplankton production within an estuarine ecosystem. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11506-11511.	7.1	58
25	Counts and sequences, observations that continue to change our understanding of viruses in nature. <i>Journal of Microbiology</i> , 2015, 53, 181-192.	2.8	58
26	Diel and daily fluctuations in virioplankton production in coastal ecosystems. <i>Environmental Microbiology</i> , 2009, 11, 2904-2914.	3.8	56
27	Ribonucleotide reductases reveal novel viral diversity and predict biological and ecological features of unknown marine viruses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15786-15791.	7.1	56
28	Methods for the Isolation of Viruses from Environmental Samples. <i>Methods in Molecular Biology</i> , 2009, 501, 3-14.	0.9	55
29	Lysogenic reproductive strategies of viral communities vary with soil depth and are correlated with bacterial diversity. <i>Soil Biology and Biochemistry</i> , 2020, 144, 107767.	8.8	55
30	Shotgun metagenomics indicates novel family A DNA polymerases predominate within marine virioplankton. <i>ISME Journal</i> , 2014, 8, 103-114.	9.8	51
31	Cultivation-Based Assessment of Lysogeny Among Soil Bacteria. <i>Microbial Ecology</i> , 2008, 56, 437-447.	2.8	49
32	Assessment of Factors Influencing Direct Enumeration of Viruses within Estuarine Sediments. <i>Applied and Environmental Microbiology</i> , 2006, 72, 4767-4774.	3.1	46
33	Temporal Dynamics of Soil Virus and Bacterial Populations in Agricultural and Early Plant Successional Soils. <i>Frontiers in Microbiology</i> , 2020, 11, 1494.	3.5	42
34	The In-Feed Antibiotic Carbadox Induces Phage Gene Transcription in the Swine Gut Microbiome. <i>MBio</i> , 2017, 8, .	4.1	37
35	Dynamics of autochthonous soil viral communities parallels dynamics of host communities under nutrient stimulation. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv063.	2.7	34
36	Novel chaperonins are prevalent in the virioplankton and demonstrate links to viral biology and ecology. <i>ISME Journal</i> , 2017, 11, 2479-2491.	9.8	31

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37	Direct Assessment of Viral Diversity in Soils by Random PCR Amplification of Polymorphic DNA. <i>Applied and Environmental Microbiology</i> , 2013, 79, 5450-5457.	3.1	28
38	Viral and bacterial assemblage covariance in oligotrophic waters of the West Florida Shelf (Gulf of Mexico). <i>Journal of Applied Microbiology</i> , 2010, 108, 107-115.	0.8	27
39	Unraveling the viral tapestry (from inside the capsid out). <i>ISME Journal</i> , 2011, 5, 165-168.	9.8	27
40	CRISPR Spacers Indicate Preferential Matching of Specific Virioplankton Genes. <i>MBio</i> , 2019, 10, .	4.1	26
41	Presence of pathogenic <i>Escherichia coli</i> is correlated with bacterial community diversity and composition on pre-harvest cattle hides. <i>Microbiome</i> , 2016, 4, 9.	11.1	25
42	Reannotation of the Ribonucleotide Reductase in a Cyanophage Reveals Life History Strategies Within the Virioplankton. <i>Frontiers in Microbiology</i> , 2019, 10, 134.	3.5	19
43	Family A DNA Polymerase Phylogeny Uncovers Diversity and Replication Gene Organization in the Virioplankton. <i>Frontiers in Microbiology</i> , 2018, 9, 3053.	3.5	18
44	Interannual dynamics of viriobenthos abundance and morphological diversity in Chesapeake Bay sediments. <i>FEMS Microbiology Ecology</i> , 2012, 79, 474-486.	2.7	17
45	Towards an integrative view of virus phenotypes. <i>Nature Reviews Microbiology</i> , 2022, 20, 83-94.	28.6	15
46	Isolation Independent Methods of Characterizing Phage Communities 2: Characterizing a Metagenome. <i>Methods in Molecular Biology</i> , 2009, 502, 279-289.	0.9	11
47	Bias in bacteriophage morphological classification by transmission electron microscopy due to breakage or loss of tail structures. <i>Microscopy Research and Technique</i> , 2012, 75, 452-457.	2.2	10
48	An instrument for collecting discrete large-volume water samples suitable for ecological studies of microorganisms. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 1781-1792.	1.4	9
49	Novel Viral DNA Polymerases From Metagenomes Suggest Genomic Sources of Strand-Displacing Biochemical Phenotypes. <i>Frontiers in Microbiology</i> , 2022, 13, 858366.	3.5	2