

# Grieg F Steward

## List of Publications by Year in descending order

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80  
papers

7,819  
citations

71061

41  
h-index

71651

76  
g-index

86  
all docs

86  
docs citations

86  
times ranked

6885  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogenase gene diversity and microbial community structure: a cross-system comparison. <i>Environmental Microbiology</i> , 2003, 5, 539-554.	1.8	844
2	Unicellular cyanobacteria fix N <sub>2</sub> in the subtropical North Pacific Ocean. <i>Nature</i> , 2001, 412, 635-638.	13.7	678
3	Dynamics of Bacterial Community Composition and Activity during a Mesocosm Diatom Bloom. <i>Applied and Environmental Microbiology</i> , 2000, 66, 578-587.	1.4	592
4	Minimum Information about an Uncultivated Virus Genome (MIUViG). <i>Nature Biotechnology</i> , 2019, 37, 29-37.	9.4	414
5	Variability in ectohydrolytic enzyme activities of pelagic marine bacteria and its significance for substrate processing in the sea. <i>Aquatic Microbial Ecology</i> , 1996, 10, 223-230.	0.9	309
6	Bacteria-organic matter coupling and its significance for oceanic carbon cycling. <i>Microbial Ecology</i> , 1994, 28, 167-179.	1.4	263
7	Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. <i>Marine Ecology - Progress Series</i> , 1996, 131, 287-300.	0.9	262
8	Bacterial mediation of carbon fluxes during a diatom bloom in a mesocosm. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1995, 42, 75-97.	0.6	235
9	Variations in bacterial community structure during a dinoflagellate bloom analyzed by DGGE and 16S rDNA sequencing. <i>Aquatic Microbial Ecology</i> , 2001, 23, 119-130.	0.9	223
10	Microbial food web structure in the Arabian Sea: a US JGOFS study. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 1387-1422.	0.6	198
11	Spatial distribution of viruses, bacteria and chlorophyll a in nentic, oceanic and estuarine environments. <i>Marine Ecology - Progress Series</i> , 1993, 92, 77-87.	0.9	187
12	Nitrogenase Gene Amplicons from Global Marine Surface Waters Are Dominated by Genes of Non-Cyanobacteria. <i>PLoS ONE</i> , 2011, 6, e19223.	1.1	176
13	Nitrogenase genes in non-cyanobacterial plankton: prevalence, diversity and regulation in marine waters. <i>Aquatic Microbial Ecology</i> , 2010, 61, 235-247.	0.9	165
14	Are we missing half of the viruses in the ocean?. <i>ISME Journal</i> , 2013, 7, 672-679.	4.4	164
15	The complete genomic sequence of the marine phage Roseophage SIO1 shares homology with nonmarine phages. <i>Limnology and Oceanography</i> , 2000, 45, 408-418.	1.6	154
16	Genome size distributions indicate variability and similarities among marine viral assemblages from diverse environments. <i>Limnology and Oceanography</i> , 2000, 45, 1697-1706.	1.6	153
17	Glucose fluxes and concentrations of dissolved combined neutral sugars (polysaccharides) in the Ross Sea and Polar Front Zone, Antarctica. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 4179-4197.	0.6	146
18	RNA viruses in the sea. <i>FEMS Microbiology Reviews</i> , 2009, 33, 295-323.	3.9	136

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19	Bacterial community composition during two consecutive NE Monsoon periods in the Arabian Sea studied by denaturing gradient gel electrophoresis (DGGE) of rRNA genes. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1999, 46, 1791-1811.	0.6	105
20	Phylogenetic Screening of Ribosomal RNA Gene-Containing Clones in Bacterial Artificial Chromosome (BAC) Libraries from Different Depths in Monterey Bay. <i>Microbial Ecology</i> , 2004, 48, 473-488.	1.4	101
21	The seasonal development of the bacterioplankton bloom in the Ross Sea, Antarctica, 1994â€“1997. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 4199-4221.	0.6	100
22	Development and Testing of a DNA Macroarray To Assess Nitrogenase (nifH) Gene Diversity. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1455-1465.	1.4	99
23	Impacts of Hurricanes Katrina and Rita on the microbial landscape of the New Orleans area. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9029-9034.	3.3	97
24	RNA viruses as major contributors to Antarctic viroplankton. <i>Environmental Microbiology</i> , 2016, 18, 3714-3727.	1.8	92
25	A giant virus infecting green algae encodes key fermentation genes. <i>Virology</i> , 2018, 518, 423-433.	1.1	92
26	Virus-induced transfer of organic carbon between marine bacteria in a model community. <i>Aquatic Microbial Ecology</i> , 2003, 33, 1-10.	0.9	87
27	Fingerprinting Diazotroph Communities in the Chesapeake Bay by Using a DNA Macroarray. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1767-1776.	1.4	82
28	Cryptic Blooms: Are Thin Layers the Missing Connection?. <i>Estuaries and Coasts</i> , 2008, 31, 396-401.	1.0	78
29	Constraining bacterial production, conversion efficiency and respiration in the Ross Sea, Antarctica, Januaryâ€“February, 1997. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 3227-3247.	0.6	76
30	New Genera of RNA Viruses in Subtropical Seawater, Inferred from Polymerase Gene Sequences. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5937-5944.	1.4	75
31	The Characterization of RNA Viruses in Tropical Seawater Using Targeted PCR and Metagenomics. <i>MBio</i> , 2014, 5, e01210-14.	1.8	69
32	Abundance, Distribution, and Diversity of Viruses in Alkaline, Hypersaline Mono Lake, California. <i>Microbial Ecology</i> , 2004, 47, 9-17.	1.4	68
33	Sufentanil, Morphine, Met-enkephalin, and k-Agonist (U-50,488H) Inhibit Substance P Release from Primary Sensory Neurons. <i>Anesthesiology</i> , 1989, 70, 672-677.	1.3	66
34	Viruses in the Oceanic Basement. <i>MBio</i> , 2017, 8, .	1.8	63
35	Heterotrophic bacterioplankton in the Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 1303-1323.	0.6	57
36	Bromodeoxyuridine as an alternative to 3H-thymidine for measuring bacterial productivity in aquatic samples. <i>Aquatic Microbial Ecology</i> , 1999, 19, 57-66.	0.9	52

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37	A Simple, Rapid Method for Demonstrating Bacterial Flagella. <i>Applied and Environmental Microbiology</i> , 2000, 66, 3632-3636.	1.4	50
38	Purification of viruses by centrifugation. , 0, , 166-181.		50
39	Vertical Distribution of Nitrogen-Fixing Phylotypes in a Meromictic, Hypersaline Lake. <i>Microbial Ecology</i> , 2004, 47, 30-40.	1.4	48
40	Temporal and Spatial Variability in Culturable Pathogenic <i>Vibrio</i> spp. in Lake Pontchartrain, Louisiana, following Hurricanes Katrina and Rita. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5384-5393.	1.4	48
41	Application of a <i>nifH</i> oligonucleotide microarray for profiling diversity of N <sub>2</sub> -fixing microorganisms in marine microbial mats. <i>Environmental Microbiology</i> , 2006, 8, 1721-1735.	1.8	46
42	Population dynamics of Cytophaga-Flavobacteria during marine phytoplankton blooms analyzed by real-time quantitative PCR. <i>Aquatic Microbial Ecology</i> , 2005, 40, 251-257.	0.9	46
43	Nucleic acids from the host bacterium as a major source of nucleotides for three marine bacteriophages. <i>FEMS Microbiology Ecology</i> , 1993, 12, 237-248.	1.3	42
44	Microbial biomass and viral infections of heterotrophic prokaryotes in the sub-surface layer of the central Arctic Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2007, 54, 1744-1757.	0.6	40
45	Analysis of a viral metagenomic library from 200 m depth in Monterey Bay, California constructed by direct shotgun cloning. <i>Virology Journal</i> , 2011, 8, 287.	1.4	40
46	Draft genome sequence of marine alphaproteobacterial strain HIMB11, the first cultivated representative of a unique lineage within the Roseobacter clade possessing an unusually small genome. <i>Standards in Genomic Sciences</i> , 2014, 9, 632-645.	1.5	40
47	Spatial and temporal variability of prokaryotes, viruses, and viral infections of prokaryotes in an alkaline, hypersaline lake. <i>Aquatic Microbial Ecology</i> , 2005, 41, 247-260.	0.9	38
48	Morphological Characterization of Viruses in the Stratified Water Column of Alkaline, Hypersaline Mono Lake. <i>Microbial Ecology</i> , 2010, 60, 636-643.	1.4	33
49	Making sense of virus size and the tradeoffs shaping viral fitness. <i>Ecology Letters</i> , 2021, 24, 363-373.	3.0	31
50	Variables influencing the efficiency and interpretation of reverse transcription quantitative PCR (RT-qPCR): An empirical study using Bacteriophage MS2. <i>Journal of Virological Methods</i> , 2017, 241, 1-10.	1.0	28
51	Plasticity in the grazing ecophysiology of <i>Florenciella</i> (Dichtyochophyceae), a mixotrophic nanoflagellate that consumes <i>Prochlorococcus</i> and other bacteria. <i>Limnology and Oceanography</i> , 2021, 66, 47-60.	1.6	28
52	Draft genome sequence of strain HIMB100, a cultured representative of the SAR116 clade of marine Alphaproteobacteria. <i>Standards in Genomic Sciences</i> , 2011, 5, 269-278.	1.5	27
53	Host Traits Drive Viral Life Histories across Phytoplankton Viruses. <i>American Naturalist</i> , 2018, 191, 566-581.	1.0	27
54	Detection of inteins among diverse DNA polymerase genes of uncultivated members of the <i>Phycodnaviridae</i> . <i>ISME Journal</i> , 2009, 3, 409-418.	4.4	26

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55	Overlooked and widespread pennate diatom-diazotroph symbioses in the sea. <i>Nature Communications</i> , 2022, 13, 799.	5.8	26
56	Fingerprinting viral assemblages by Pulsed Field Gel Electrophoresis (PFGE). <i>Methods in Microbiology</i> , 2001, , 85-103.	0.4	25
57	Complete genome sequence of bacteriophage VvAW1, which infects <i>Vibrio vulnificus</i> . <i>Standards in Genomic Sciences</i> , 2012, 6, 415-426.	1.5	24
58	Variables Influencing Extraction of Nucleic Acids from Microbial Plankton (Viruses, Bacteria, and) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6</i> 2014, 80, 3930-3942.	1.4	24
59	Broad phylogenetic and functional diversity among mixotrophic consumers of <i>Prochlorococcus</i> . <i>ISME Journal</i> , 2022, 16, 1557-1569.	4.4	24
60	Significance of bacteria in carbon fluxes in the Arabian Sea. <i>Journal of Earth System Science</i> , 1994, 103, 341-351.	0.6	24
61	Estimating viral proliferation in aquatic samples. <i>Methods in Microbiology</i> , 2001, 30, 67-84.	0.4	23
62	Extraction and purification of nucleic acids from viruses. , 0, , 154-165.		20
63	Assembly of a Marine Viral Metagenome after Physical Fractionation. <i>PLoS ONE</i> , 2013, 8, e60604.	1.1	18
64	A novel method for the measurement of dissolved deoxyribonucleic acid in seawater. <i>Limnology and Oceanography: Methods</i> , 2004, 2, 248-255.	1.0	16
65	What's the "meta"™ with metagenomics?. <i>ISME Journal</i> , 2007, 1, 100-102.	4.4	15
66	Towards an integrative view of virus phenotypes. <i>Nature Reviews Microbiology</i> , 2022, 20, 83-94.	13.6	15
67	Characterizing the Effects of Two Storms on the Coastal Waters of Oahu, Hawaii, Using Data from the Pacific Islands Ocean Observing System. <i>Oceanography</i> , 2011, 24, 182-199.	0.5	14
68	Differential specificity of selective culture media for enumeration of pathogenic vibrios: Advantages and limitations of multi-plating methods. <i>Journal of Microbiological Methods</i> , 2015, 111, 24-30.	0.7	12
69	Bacteria in Oceanic Carbon Cycling as a Molecular Problem. , 1995, , 39-54.		12
70	Characterization of the diversity of marine RNA viruses. , 0, , 193-201.		12
71	CoCoNet: an efficient deep learning tool for viral metagenome binning. <i>Bioinformatics</i> , 2021, 37, 2803-2810.	1.8	11
72	A method for characterizing dissolved <scp>DNA</scp> and its application to the North Pacific Subtropical Gyre. <i>Limnology and Oceanography: Methods</i> , 2021, 19, 210-221.	1.0	9

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73	Characterizing the effluence near Waikiki, Hawaii with a coupled biophysical model. Continental Shelf Research, 2013, 54, 1-13.	0.9	7
74	Divide and Conquer: Enriching Environmental Sequencing Data. PLoS ONE, 2007, 2, e830.	1.1	6
75	Variable Freshwater Influences on the Abundance of <i>Vibrio vulnificus</i> in a Tropical Urban Estuary. Applied and Environmental Microbiology, 2022, 88, AEM0188421.	1.4	5
76	Refining real-time predictions of <i>Vibrio vulnificus</i> concentrations in a tropical urban estuary by incorporating dissolved organic matter dynamics. Science of the Total Environment, 2022, 829, 154075.	3.9	5
77	Physical fractionation of aquatic viral assemblages. Limnology and Oceanography: Methods, 2011, 9, 150-163.	1.0	4
78	Marine Viruses. , 2013, , 127-144.		4
79	Real-Time Observations of the February 2010 Chile and March 2011 Japan Tsunamis Recorded in Honolulu by the Pacific Islands Ocean Observing System. Oceanography, 2014, 27, .	0.5	3
80	A Functional K <sup>+</sup> Channel from Tetraselmis Virus 1, a Member of the Mimiviridae. Viruses, 2020, 12, 1107.	1.5	3