

Samuel T Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,171
citations

270111

25
h-index

274796

44
g-index

69
all docs

69
docs citations

69
times ranked

3082
citing authors

#	ARTICLE	IF	CITATIONS
1	Complex marine microbial communities partition metabolism of scarce resources over the diel cycle. <i>Nature Ecology and Evolution</i> , 2022, 6, 218-229.	3.4	21
2	Overlooked and widespread pennate diatom-diazotroph symbioses in the sea. <i>Nature Communications</i> , 2022, 13, 799.	5.8	26
3	A system of coordinated autonomous robots for Lagrangian studies of microbes in the oceanic deep chlorophyll maximum. <i>Science Robotics</i> , 2021, 6, .	9.9	32
4	Evaluation of argon-induced hydrogen production as a method to measure nitrogen fixation by cyanobacteria. <i>Journal of Phycology</i> , 2021, 57, 863-873.	1.0	7
5	Phosphate Scavenging During Lava-Seawater Interaction Offshore of K�lauea Volcano, Hawaii. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009754.	1.0	0
6	Light and depth dependency of nitrogen fixation by the non-photosynthetic, symbiotic cyanobacterium UCYN-A. <i>Environmental Microbiology</i> , 2021, 23, 4518-4531.	1.8	14
7	UCYN-A/haptophyte symbioses dominate N ₂ fixation in the Southern California Current System. <i>ISME Communications</i> , 2021, 1, .	1.7	17
8	Autonomous Tracking and Sampling of the Deep Chlorophyll Maximum Layer in an Open-Ocean Eddy by a Long-Range Autonomous Underwater Vehicle. <i>IEEE Journal of Oceanic Engineering</i> , 2020, 45, 1308-1321.	2.1	22
9	Distinct nitrogen cycling and steep chemical gradients in <i>Trichodesmium</i> colonies. <i>ISME Journal</i> , 2020, 14, 399-412.	4.4	19
10	Global reconstruction reduces the uncertainty of oceanic nitrous oxide emissions and reveals a vigorous seasonal cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11954-11960.	3.3	56
11	Phosphonate cycling supports methane and ethylene supersaturation in the phosphate-depleted western North Atlantic Ocean. <i>Limnology and Oceanography</i> , 2020, 65, 2443-2459.	1.6	23
12	Metal isotope signatures from lava-seawater interaction during the 2018 eruption of K�lauea. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 282, 340-356.	1.6	17
13	Unusual marine cyanobacteria/haptophyte symbiosis relies on N ₂ fixation even in N-rich environments. <i>ISME Journal</i> , 2020, 14, 2395-2406.	4.4	58
14	Life and death of <i>Crocospaera</i> sp. in the Pacific Ocean: Fine scale predator-prey dynamics. <i>Limnology and Oceanography</i> , 2020, 65, 2603-2617.	1.6	26
15	A critical review of the ¹⁵ N ₂ tracer method to measure diazotrophic production in pelagic ecosystems. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 129-147.	1.0	59
16	Ideas and perspectives: A strategic assessment of methane and nitrous oxide measurements in the marine environment. <i>Biogeosciences</i> , 2020, 17, 5809-5828.	1.3	16
17	Mechanistic Model for the Coexistence of Nitrogen Fixation and Photosynthesis in Marine <i>Trichodesmium</i> . <i>MSystems</i> , 2019, 4, .	1.7	23
18	K�lauea lava fuels phytoplankton bloom in the North Pacific Ocean. <i>Science</i> , 2019, 365, 1040-1044.	6.0	35

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19	A Harmonized Nitrous Oxide (N ₂ O) Ocean Observation Network for the 21st Century. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	32
20	Quantifying Oxygen Management and Temperature and Light Dependencies of Nitrogen Fixation by <i>Crocospaera watsonii</i> . <i>MSphere</i> , 2019, 4, .	1.3	26
21	Effects of nutrient enrichment on surface microbial community gene expression in the oligotrophic North Pacific Subtropical Gyre. <i>ISME Journal</i> , 2019, 13, 374-387.	4.4	17
22	Control of net community production by microbial community respiration at Station ALOHA. <i>Journal of Marine Systems</i> , 2018, 184, 28-35.	0.9	3
23	Editorial: Microbial Ecology in the North Pacific Subtropical Gyre. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	1
24	An intercomparison of oceanic methane and nitrous oxide measurements. <i>Biogeosciences</i> , 2018, 15, 5891-5907.	1.3	42
25	Dynamics of <i>Prochlorococcus</i> Diversity and Photoacclimation During Short-Term Shifts in Water Column Stratification at Station ALOHA. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	17
26	Synergy among Microbiota and Their Hosts: Leveraging the Hawaiian Archipelago and Local Collaborative Networks To Address Pressing Questions in Microbiome Research. <i>MSystems</i> , 2018, 3, .	1.7	0
27	Production of methane and ethylene from plastic in the environment. <i>PLoS ONE</i> , 2018, 13, e0200574.	1.1	310
28	Nitrogen fixation rates diagnosed from diurnal changes in elemental stoichiometry. <i>Limnology and Oceanography</i> , 2018, 63, 1911-1923.	1.6	5
29	Interannual Variability of Methane and Nitrous Oxide in the North Pacific Subtropical Gyre. <i>Geophysical Research Letters</i> , 2017, 44, 9885-9892.	1.5	18
30	Coordinated regulation of growth, activity and transcription in natural populations of the unicellular nitrogen-fixing cyanobacterium <i>Crocospaera</i> . <i>Nature Microbiology</i> , 2017, 2, 17118.	5.9	122
31	Temporal variability of nitrogen fixation and particulate nitrogen export at Station ALOHA. <i>Limnology and Oceanography</i> , 2017, 62, 200-216.	1.6	110
32	Chemical microenvironments and single-cell carbon and nitrogen uptake in field-collected colonies of <i>Trichodesmium</i> under different <i>p</i> CO ₂ . <i>ISME Journal</i> , 2017, 11, 1305-1317.	4.4	47
33	Particle export fluxes to the oxygen minimum zone of the eastern tropical North Atlantic. <i>Biogeosciences</i> , 2017, 14, 1825-1838.	1.3	31
34	Variable depth distribution of <i>Trichodesmium</i> clades in the North Pacific Ocean. <i>Environmental Microbiology Reports</i> , 2016, 8, 1058-1066.	1.0	16
35	Metabolic balance in the mixed layer of the oligotrophic North Pacific Ocean from diel changes in O ₂ /Ar saturation ratios. <i>Geophysical Research Letters</i> , 2015, 42, 3421-3430.	1.5	27
36	Quantifying subtropical North Pacific gyre mixed layer primary productivity from Seaglider observations of diel oxygen cycles. <i>Geophysical Research Letters</i> , 2015, 42, 4032-4039.	1.5	39

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37	Short-term variability in euphotic zone biogeochemistry and primary productivity at Station ALOHA: A case study of summer 2012. <i>Global Biogeochemical Cycles</i> , 2015, 29, 1145-1164.	1.9	22
38	Functional group-specific traits drive phytoplankton dynamics in the oligotrophic ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5972-9.	3.3	118
39	Biological Components and Bioelectronic Interfaces of Water Splitting Photoelectrodes for Solar Hydrogen Production. <i>Chemistry - A European Journal</i> , 2015, 21, 4188-4199.	1.7	8
40	Measurements of nitrogen fixation in the oligotrophic North Pacific Subtropical Gyre using a free-drifting submersible incubation device. <i>Journal of Plankton Research</i> , 2015, 37, 727-739.	0.8	18
41	Evaluation of the utility of xanthophyll cycle pigment dynamics for assessing upper ocean mixing processes at Station ALOHA. <i>Journal of Plankton Research</i> , 2014, 36, 1423-1433.	0.8	18
42	Dissolved hydrogen and methane in the oceanic basaltic biosphere. <i>Earth and Planetary Science Letters</i> , 2014, 405, 62-73.	1.8	43
43	Ecogenomic sensor reveals controls on N ₂ -fixing microorganisms in the North Pacific Ocean. <i>ISME Journal</i> , 2014, 8, 1175-1185.	4.4	70
44	A role for nitrite in the production of nitrous oxide in the lower euphotic zone of the oligotrophic North Pacific Ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 85, 47-55.	0.6	28
45	Dissolved hydrogen and nitrogen fixation in the oligotrophic North Pacific Subtropical Gyre. <i>Environmental Microbiology Reports</i> , 2013, 5, 697-704.	1.0	12
46	Metatranscriptomic and functional metagenomic analysis of methylphosphonate utilization by marine bacteria. <i>Frontiers in Microbiology</i> , 2013, 4, 340.	1.5	63
47	Dissolved hydrogen and nitrogen fixation in the oligotrophic North Pacific Subtropical Gyre. <i>Environmental Microbiology Reports</i> , 2013, 5, 697-704.	1.0	5
48	Bacterial Dimethylsulfoniopropionate Degradation Genes in the Oligotrophic North Pacific Subtropical Gyre. <i>Applied and Environmental Microbiology</i> , 2012, 78, 2775-2782.	1.4	39
49	Direct measurement of the oceanic carbon monoxide flux by eddy correlation. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 3069-3075.	1.2	23
50	Comparative Assessment of Nitrogen Fixation Methodologies, Conducted in the Oligotrophic North Pacific Ocean. <i>Applied and Environmental Microbiology</i> , 2012, 78, 6516-6523.	1.4	155
51	NITROGEN FIXATION, HYDROGEN CYCLING, AND ELECTRON TRANSPORT KINETICS IN <i>TRICHODESMIUM ERYTHRAEUM</i> (CYANOBACTERIA) STRAIN IMS101. <i>Journal of Phycology</i> , 2012, 48, 595-606.	1.0	21
52	Identification of putative methylotrophic and hydrogenotrophic methanogens within sedimenting material and copepod faecal pellets. <i>Aquatic Microbial Ecology</i> , 2012, 67, 151-160.	0.9	34
53	Hydrogen Cycling by the Unicellular Marine Diazotroph <i>Crocospaera watsonii</i> Strain WH8501. <i>Applied and Environmental Microbiology</i> , 2010, 76, 6797-6803.	1.4	22
54	Hydrogen production by <i>Trichodesmium erythraeum</i> Cyanothecae sp. and <i>Crocospaera watsonii</i> . <i>Aquatic Microbial Ecology</i> , 2010, 59, 197-206.	0.9	35

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55	Red coralline algae as a source of marine biogenic dimethylsulphoniopropionate. <i>Marine Ecology - Progress Series</i> , 2008, 372, 61-66.	0.9	28
56	Particulate dimethylsulphoxide and dimethylsulphoniopropionate in phytoplankton cultures and Scottish coastal waters. <i>Aquatic Sciences</i> , 2007, 69, 330-340.	0.6	59