Farooq Azam

List of Publications by Year
in descending order

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103	17,206	25034	30922
papers	citations	57 h-index	102 g-index

137	137	137	14396
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microbial structuring of marine ecosystems. Nature Reviews Microbiology, 2007, 5, 782-791.	28.6	1,339
2	Microbial production of recalcitrant dissolved organic matter: long-term carbon storage in the global ocean. Nature Reviews Microbiology, 2010, 8, 593-599.	28.6	1,278
3	Scientistsâ€™ warning to humanity: microorganisms and climate change. Nature Reviews Microbiology, 2019, 17, 569-586.	28.6	1,138
4	Intense hydrolytic enzyme activity on marine aggregates and implications for rapid particle dissolution. Nature, 1992, 359, 139-142.	27.8	889
5	Genomic analysis of uncultured marine viral communities. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14250-14255.	7.1	874
6	Bacterioplankton Secondary Production Estimates for Coastal Waters of British Columbia, Antarctica, and California. Applied and Environmental Microbiology, 1980, 39, 1085-1095.	3.1	804
7	Major role of bacteria in biogeochemical fluxes in the ocean's interior. Nature, 1988, 332, 441-443.	27.8	724
8	Dynamics of Bacterial Community Composition and Activity during a Mesocosm Diatom Bloom. Applied and Environmental Microbiology, 2000, 66, 578-587.	3.1	592
9	The oceanic gel phase: a bridge in the DOMâ€“POM continuum. Marine Chemistry, 2004, 92, 67-85.	2.3	576
10	Accelerated dissolution of diatom silica by marine bacterial assemblages. Nature, 1999, 397, 508-512.	27.8	476
11	Algicidal Bacteria in the Sea and their Impact on Algal Blooms1. Journal of Eukaryotic Microbiology, 2004, 51, 139-144.	1.7	450
12	Bringing the ocean into the laboratory to probe the chemical complexity of sea spray aerosol. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7550-7555.	7.1	439
13	Microbial Ecology of Four Coral Atolls in the Northern Line Islands. PLoS ONE, 2008, 3, e1584.	2.5	383
14	Antagonistic Interactions among Marine Pelagic Bacteria. Applied and Environmental Microbiology, 2001, 67, 4975-4983.	3.1	348
15	Sea snow microcosms. Nature, 2001, 414, 495-498.	27.8	329
16	The Microbial Loop. Oceanography, 2007, 20, 28-33.	1.0	321
17	Bacterial mediation of carbon fluxes during a diatom bloom in a mesocosm. Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 75-97.	1.4	235
18	Antagonistic interactions among coralâ€associated bacteria. Environmental Microbiology, 2010, 12, 28-39.	3.8	218

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19	Single bacterial strain capable of significant contribution to carbon cycling in the surface ocean. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7202-7207.	7.1	207
20	Microbial food web structure in the Arabian Sea: a US JGOFS study. Deep-Sea Research Part II: Topical Studies in Oceanography, 2000, 47, 1387-1422.	1.4	198
21	Vertical distribution of picoeukaryotic diversity in the Sargasso Sea. Environmental Microbiology, 2007, 9, 1233-1252.	3.8	181
22	Microbial Control of Sea Spray Aerosol Composition: A Tale of Two Blooms. ACS Central Science, 2015, 1, 124-131.	11.3	172
23	Thin laser light sheet microscope for microbial oceanography. Optics Express, 2002, 10, 145.	3.4	167
24	Bacterial control of silicon regeneration from diatom detritus: Significance of bacterial ectohydrolases and species identity. Limnology and Oceanography, 2001, 46, 1606-1623.	3.1	163
25	OCEANOGRAPHY: Microbes, Molecules, and Marine Ecosystems. Science, 2004, 303, 1622-1624.	12.6	154
26	Genome size distributions indicate variability and similarities among marine viral assemblages from diverse environments. Limnology and Oceanography, 2000, 45, 1697-1706.	3.1	153
27	Widespread N -Acetyl- <scp>d</scp> -Glucosamine Uptake among Pelagic Marine Bacteria and Its Ecological Implications. Applied and Environmental Microbiology, 2002, 68, 5554-5562.	3.1	137
28	Blooms of sequence-specific culturable bacteria in the sea. FEMS Microbiology Letters, 1993, 102, 161-166.	1.8	126
29	Abundance, diversity, and activity of microbial assemblages associated with coral reef fish guts and feces. FEMS Microbiology Ecology, 2010, 73, no-no.	2.7	113
30	Regulation of Oceanic Silicon and Carbon Preservation by Temperature Control on Bacteria. Science, 2002, 298, 1980-1984.	12.6	112
31	Role of silicon in diatom metabolism. Archives of Microbiology, 1974, 97, 103-114.	2.2	110
32	Resilience of Coral-Associated Bacterial Communities Exposed to Fish Farm Effluent. PLoS ONE, 2009, 4, e7319.	2.5	109
33	Bacterial secondary production in freshwater measured by3H-thymidine incorporation method. Microbial Ecology, 1982, 8, 101-113.	2.8	107
34	Bacterial community composition during two consecutive NE Monsoon periods in the Arabian Sea studied by denaturing gradient gel electrophoresis (DGGE) of rRNA genes. Deep-Sea Research Part II: Topical Studies in Oceanography, 1999, 46, 1791-1811.	1.4	105
35	Taxon-specific aerosolization of bacteria and viruses in an experimental ocean-atmosphere mesocosm. Nature Communications, 2018, 9, 2017.	12.8	103
36	Evolving paradigms in biological carbon cycling in the ocean. National Science Review, 2018, 5, 481-499.	9.5	100

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37	Trophic regulation of Vibrio cholerae in coastal marine waters. Environmental Microbiology, 2006, 8, 21-29.	3.8	98
38	Cycling of Organic Matter by Bacterioplankton in Pelagic Marine Ecosystems: Microenvironmental Considerations. , 1984, , 345-360.		97
39	2- n -Pentyl-4-Quinolinol Produced by a Marine Alteromonas sp. and Its Potential Ecological and Biogeochemical Roles. Applied and Environmental Microbiology, 2003, 69, 568-576.	3.1	95
40	A Dynamic Link between Ice Nucleating Particles Released in Nascent Sea Spray Aerosol and Oceanic Biological Activity during Two Mesocosm Experiments. Journals of the Atmospheric Sciences, 2017, 74, 151-166.	1.7	93
41	The balance between silica production and silica dissolution in the sea: Insights from Monterey Bay, California, applied to the global data set. Limnology and Oceanography, 2003, 48, 1846-1854.	3.1	92
42	Cultivation and Ecosystem Role of a Marine Roseobacter Clade-Affiliated Cluster Bacterium. Applied and Environmental Microbiology, 2008, 74, 2595-2603.	3.1	92
43	Enrichment of Saccharides and Divalent Cations in Sea Spray Aerosol During Two Phytoplankton Blooms. Environmental Science & Technology, 2016, 50, 11511-11520.	10.0	90
44	Growth of Vibrio cholerae O1 in Red Tide Waters off California. Applied and Environmental Microbiology, 2003, 69, 6923-6931.	3.1	89
45	Impact of marine biogeochemistry on the chemical mixing state and cloud forming ability of nascent sea spray aerosol. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8553-8565.	3.3	84
46	Vibrio cholerae Strains Possess Multiple Strategies for Abiotic and Biotic Surface Colonization. Journal of Bacteriology, 2007, 189, 5348-5360.	2.2	81
47	Germanium incorporation into the silica of diatom cell walls. Archives of Microbiology, 1973, 92, 11-20.	2.2	80
48	Unveiling the enigma of refractory carbon in the ocean. National Science Review, 2018, 5, 459-463.	9.5	80
49	Diminished efficiency in the oceanic silica pump caused by bacteriaâ€mediated silica dissolution. Limnology and Oceanography, 2003, 48, 1855-1868.	3.1	78
50	Antagonistic Interactions among Marine Bacteria Impede the Proliferation of Vibrio cholerae. Applied and Environmental Microbiology, 2005, 71, 8531-8536.	3.1	78
51	Bionic 3D printed corals. Nature Communications, 2020, 11, 1748.	12.8	78
52	Silicic-acid uptake in diatoms studied with [68Ge]germanic acid as tracer. Planta, 1974, 121, 205-212.	3.2	76
53	Constraining bacterial production, conversion efficiency and respiration in the Ross Sea, Antarctica, Januaryâ€"February, 1997. Deep-Sea Research Part II: Topical Studies in Oceanography, 2000, 47, 3227-3247.	1.4	76
54	Outer membrane vesicles containing signalling molecules and active hydrolytic enzymes released by a coral pathogen Vibrio shilonii AK1. Environmental Microbiology, 2016, 18, 3850-3866.	3.8	74

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55	The microbial carbon pump and the oceanic recalcitrant dissolved organic matter pool. Nature Reviews Microbiology, 2011, 9, 555-555.	28.6	73
56	New directions in coral reef microbial ecology. Environmental Microbiology, 2012, 14, 833-844.	3.8	73
57	Use of plankton-derived vitamin B1 precursors, especially thiazole-related precursor, by key marine picoeukaryotic phytoplankton. ISME Journal, 2017, 11, 753-765.	9.8	69
58	Advancing Model Systems for Fundamental Laboratory Studies of Sea Spray Aerosol Using the Microbial Loop. Journal of Physical Chemistry A, 2015, 119, 8860-8870.	2.5	62
59	Major Role of Microbes in Carbon Fluxes during Austral Winter in the Southern Drake Passage. PLoS ONE, 2009, 4, e6941.	2.5	60
60	New Method for Counting Bacteria Associated with Coral Mucus. Applied and Environmental Microbiology, 2010, 76, 6128-6133.	3.1	58
61	Transition Metal Associations with Primary Biological Particles in Sea Spray Aerosol Generated in a Wave Channel. Environmental Science & Technology, 2014, 48, 1324-1333.	10.0	58
62	Role of Silicon in Diatom Metabolism. IV. Subcellular Localization of Silicon and Germanium in Nitzschia alba and Cylindrotheca fusiformis. Physiologia Plantarum, 1974, 30, 265-272.	5.2	56
63	Spatially explicit simulations of a microbial food web. Limnology and Oceanography, 1997, 42, 613-622.	3.1	55
64	Gradients of coastal fish farm effluents and their effect on coral reef microbes. Environmental Microbiology, 2008, 10, 2299-2312.	3.8	55
65	Bacterial 5'-nucleotidase activity in estuarine and coastal marine waters: Characterization of enzyme activity. Limnology and Oceanography, 1991, 36, 1427-1436.	3.1	54
66	A Glimpse into the Expanded Genome Content of Vibrio cholerae through Identification of Genes Present in Environmental Strains. Journal of Bacteriology, 2005, 187, 2992-3001.	2.2	54
67	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
68	The role of the microbial loop in Antarctic pelagic ecosystems. Polar Research, 1991, 10, 239-244.	1.6	51
69	Actively Growing Bacteria in the Inland Sea of Japan, Identified by Combined Bromodeoxyuridine Immunocapture and Denaturing Gradient Gel Electrophoresis. Applied and Environmental Microbiology, 2007, 73, 2787-2798.	3.1	50
70	Corals shed bacteria as a potential mechanism of resilience to organic matter enrichment. ISME Journal, 2012, 6, 1159-1165.	9.8	49
71	Role of silicon in diatom metabolism. Archives of Microbiology, 1974, 101, 1-8.	2.2	47
72	Microbial biomass and viral infections of heterotrophic prokaryotes in the sub-surface layer of the central Arctic Ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 2007, 54, 1744-1757.	1.4	40

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73	Response of bacterial communities from California coastal waters to alginate particles and an alginolytic Alteromonas macleodii strain. Environmental Microbiology, 2016, 18, 4369-4377.	3.8	40
74	Measurement of Bacterioplankton Growth in the Sea and Its Regulation by Environmental Conditions. , 1984, , 179-196.		39
75	Correcting a major error in assessing organic carbon pollution in natural waters. Science Advances, 2021, 7, .	10.3	37
76	High-resolution imaging of pelagic bacteria by Atomic Force Microscopy and implications for carbon cycling. ISME Journal, 2010, 4, 427-439.	9.8	36
77	Quantitative role of shrimp fecal bacteria in organic matter fluxes in a recirculating shrimp aquaculture system. FEMS Microbiology Ecology, 2011, 77, 134-145.	2.7	36
78	Uptake of Cyclic AMP by Natural Populations of Marine Bacteria. Applied and Environmental Microbiology, 1982, 43, 869-876.	3.1	36
79	Microbial distribution and activity across a water mass frontal zone in the California Current Ecosystem. Journal of Plankton Research, 2012, 34, 802-814.	1.8	35
80	Elemental cycling and fluxes off southern California. Eos, 1989, 70, 146.	0.1	32
81	The role of the microbial loop in Antarctic pelagic ecosystems. Polar Research, 1991, 10, 239-244.	1.6	31
82	Broad distribution and high proportion of protein synthesis active marine bacteria revealed by click chemistry at the single cell level. Frontiers in Marine Science, 2014, 1, .	2.5	30
83	Nanoscale patchiness of bacteria in lake water studied with the spatial information preservation method. Limnology and Oceanography, 1998, 43, 307-314.	3.1	28
84	Detection of Active Microbial Enzymes in Nascent Sea Spray Aerosol: Implications for Atmospheric Chemistry and Climate. Environmental Science and Technology Letters, 2019, 6, 171-177.	8.7	28
85	BACTERIAâ€INDUCED MOTILITY REDUCTION IN LINGULODINIUM POLYEDRUM (DINOPHYCEAE)¹. Journal of Phycology, 2008, 44, 923-928.	2.3	27
86	Capsomer Dynamics and Stabilization in the TÂ= 12 Marine Bacteriophage SIO-2 and Its Procapsid Studied by CryoEM. Structure, 2012, 20, 498-503.	3.3	26
87	Insight into the resilience and susceptibility of marine bacteria to T6SS attack by Vibrio cholerae and Vibrio coralliilyticus. PLoS ONE, 2020, 15, e0227864.	2.5	26
88	Significance of bacteria in carbon fluxes in the Arabian Sea. Journal of Earth System Science, 1994, 103, 341-351.	1.3	24
89	Bacterial transformation and transport of organic matter in the Southern California Bight. Progress in Oceanography, 1992, 30, 151-166.	3.2	23
90	Synthetic algal-bacteria consortia for space-efficient microalgal growth in a simple hydrogel system. Journal of Applied Phycology, 2021, 33, 2805-2815.	2.8	20

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91	Metabolic characterization of a model heterotrophic bacterium capable of significant chemical alteration of marine dissolved organic matter. Marine Chemistry, 2015, 177, 357-365.	2.3	18
92	Array atomic force microscopy for real-time multiparametric analysis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5872-5877.	7.1	18
93	Variations in the optical properties of a particle suspension associated with viral infection of marine bacteria. Limnology and Oceanography, 2010, 55, 2317-2330.	3.1	17
94	Occurrence and Characterization of a Phosphoenolpyruvate: Glucose Phosphotransferase System in a Marine Bacterium, Serratia marinorubra. Applied and Environmental Microbiology, 1979, 38, 1086-1091.	3.1	16
95	Viral Attachment to Biotic and Abiotic Surfaces in Seawater. Applied and Environmental Microbiology, 2020, 86, .	3.1	15
96	Enrichment of Bacterioplankton Able to Utilize One-Carbon and Methylated Compounds in the Coastal Pacific Ocean. Frontiers in Marine Science, 2018, 5, .	2.5	12
97	Bacteria in Oceanic Carbon Cycling as a Molecular Problem. , 1995, , 39-54.		12
98	Bacteriaâ€driven production of alkyl nitrates in seawater. Geophysical Research Letters, 2015, 42, 597-604.	4.0	8
99	Bacterioplankton drawdown of coral mass-spawned organic matter. ISME Journal, 2018, 12, 2238-2251.	9.8	8
100	Introduction, history, and overview: The â€˜methodsâ€™ to our madness. Methods in Microbiology, 2001, 30, 1-12.	0.8	7
101	Impact of dust addition on the microbial food web under present and future conditions of pH and temperature. Biogeosciences, 2022, 19, 1303-1319.	3.3	5
102	Bacterial Nanotubes as Intercellular Linkages in Marine Assemblages. Frontiers in Marine Science, 2021, 8, .	2.5	4
103	Ectohydrolytic enzyme activities of bacteria associated with Orbicella annularis coral. Coral Reefs, 2021, 40, 1899.	2.2	0