

# Farooq Azam

## List of Publications by Year in Descending Order

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**Version:** 2024-04-29

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102  
papers

12,506  
citations

51  
h-index

111  
g-index

137  
ext. papers

14,931  
ext. citations

8.2  
avg, IF

6.26  
L-index

#	Paper	IF	Citations
102	Impact of dust addition on the microbial food web under present and future conditions of pH and temperature. <i>Biogeosciences</i> , <b>2022</b> , 19, 1303-1319	4.6	1
101	Ectohydrolytic enzyme activities of bacteria associated with <i>Orbicella annularis</i> coral. <i>Coral Reefs</i> , <b>2021</b> , 40, 1899	4.2	
100	Correcting a major error in assessing organic carbon pollution in natural waters. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	8
99	Synthetic algal-bacteria consortia for space-efficient microalgal growth in a simple hydrogel system. <i>Journal of Applied Phycology</i> , <b>2021</b> , 33, 2805-2815	3.2	2
98	Insight into the resilience and susceptibility of marine bacteria to T6SS attack by <i>Vibrio cholerae</i> and <i>Vibrio coralliilyticus</i> . <i>PLoS ONE</i> , <b>2020</b> , 15, e0227864	3.7	12
97	Viral Attachment to Biotic and Abiotic Surfaces in Seawater. <i>Applied and Environmental Microbiology</i> , <b>2020</b> , 86,	4.8	6
96	Bionic 3D printed corals. <i>Nature Communications</i> , <b>2020</b> , 11, 1748	17.4	32
95	Scientists' warning to humanity: microorganisms and climate change. <i>Nature Reviews Microbiology</i> , <b>2019</b> , 17, 569-586	22.2	516
94	Array atomic force microscopy for real-time multiparametric analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 5872-5877	11.5	8
93	Detection of Active Microbial Enzymes in Nascent Sea Spray Aerosol: Implications for Atmospheric Chemistry and Climate. <i>Environmental Science and Technology Letters</i> , <b>2019</b> , 6, 171-177	11	19
92	Unveiling the enigma of refractory carbon in the ocean. <i>National Science Review</i> , <b>2018</b> , 5, 459-463	10.8	38
91	Evolving paradigms in biological carbon cycling in the ocean. <i>National Science Review</i> , <b>2018</b> , 5, 481-499	10.8	34
90	Bacterioplankton drawdown of coral mass-spawned organic matter. <i>ISME Journal</i> , <b>2018</b> , 12, 2238-2251	11.9	4
89	Enrichment of Bacterioplankton Able to Utilize One-Carbon and Methylated Compounds in the Coastal Pacific Ocean. <i>Frontiers in Marine Science</i> , <b>2018</b> , 5,	4.5	7
88	Taxon-specific aerosolization of bacteria and viruses in an experimental ocean-atmosphere mesocosm. <i>Nature Communications</i> , <b>2018</b> , 9, 2017	17.4	61
87	Use of plankton-derived vitamin B1 precursors, especially thiazole-related precursor, by key marine picoeukaryotic phytoplankton. <i>ISME Journal</i> , <b>2017</b> , 11, 753-765	11.9	38
86	A Dynamic Link between Ice Nucleating Particles Released in Nascent Sea Spray Aerosol and Oceanic Biological Activity during Two Mesocosm Experiments. <i>Journals of the Atmospheric Sciences</i> , <b>2017</b> , 74, 151-166	2.1	68

85	Response of bacterial communities from California coastal waters to alginate particles and an alginolytic <i>Alteromonas macleodii</i> strain. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 4369-4377	5.2	23
84	Outer membrane vesicles containing signalling molecules and active hydrolytic enzymes released by a coral pathogen <i>Vibrio shilonii</i> AK1. <i>Environmental Microbiology</i> , <b>2016</b> , 18, 3850-3866	5.2	46
83	Enrichment of Saccharides and Divalent Cations in Sea Spray Aerosol During Two Phytoplankton Blooms. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 11511-11520	10.3	68
82	Advancing Model Systems for Fundamental Laboratory Studies of Sea Spray Aerosol Using the Microbial Loop. <i>Journal of Physical Chemistry A</i> , <b>2015</b> , 119, 8860-70	2.8	48
81	Microbial Control of Sea Spray Aerosol Composition: A Tale of Two Blooms. <i>ACS Central Science</i> , <b>2015</b> , 1, 124-31	16.8	132
80	Metabolic characterization of a model heterotrophic bacterium capable of significant chemical alteration of marine dissolved organic matter. <i>Marine Chemistry</i> , <b>2015</b> , 177, 357-365	3.7	10
79	Bacteria-driven production of alkyl nitrates in seawater. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 597-604	4.9	6
78	Transition metal associations with primary biological particles in sea spray aerosol generated in a wave channel. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 1324-33	10.3	48
77	Broad distribution and high proportion of protein synthesis active marine bacteria revealed by click chemistry at the single cell level. <i>Frontiers in Marine Science</i> , <b>2014</b> , 1,	4.5	12
76	Single bacterial strain capable of significant contribution to carbon cycling in the surface ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7202-7	11.5	134
75	Impact of marine biogeochemistry on the chemical mixing state and cloud forming ability of nascent sea spray aerosol. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 8553-8565	4.4	76
74	Bringing the ocean into the laboratory to probe the chemical complexity of sea spray aerosol. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 7550-5	11.5	345
73	Capsomer dynamics and stabilization in the T = 12 marine bacteriophage SIO-2 and its procapsid studied by CryoEM. <i>Structure</i> , <b>2012</b> , 20, 498-503	5.2	20
72	New directions in coral reef microbial ecology. <i>Environmental Microbiology</i> , <b>2012</b> , 14, 833-44	5.2	42
71	Microbial distribution and activity across a water mass frontal zone in the California Current Ecosystem. <i>Journal of Plankton Research</i> , <b>2012</b> , 34, 802-814	2.2	22
70	Corals shed bacteria as a potential mechanism of resilience to organic matter enrichment. <i>ISME Journal</i> , <b>2012</b> , 6, 1159-65	11.9	41
69	The microbial carbon pump and the oceanic recalcitrant dissolved organic matter pool. <i>Nature Reviews Microbiology</i> , <b>2011</b> , 9, 555-555	22.2	50
68	Quantitative role of shrimp fecal bacteria in organic matter fluxes in a recirculating shrimp aquaculture system. <i>FEMS Microbiology Ecology</i> , <b>2011</b> , 77, 134-45	4.3	29

67	Abundance, diversity, and activity of microbial assemblages associated with coral reef fish guts and feces. <i>FEMS Microbiology Ecology</i> , <b>2010</b> , 73, 31-42	4.3	80
66	High-resolution imaging of pelagic bacteria by Atomic Force Microscopy and implications for carbon cycling. <i>ISME Journal</i> , <b>2010</b> , 4, 427-39	11.9	31
65	Microbial production of recalcitrant dissolved organic matter: long-term carbon storage in the global ocean. <i>Nature Reviews Microbiology</i> , <b>2010</b> , 8, 593-9	22.2	849
64	New method for counting bacteria associated with coral mucus. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 6128-33	4.8	45
63	Antagonistic interactions among coral-associated bacteria. <i>Environmental Microbiology</i> , <b>2010</b> , 12, 28-39	5.2	170
62	Variations in the optical properties of a particle suspension associated with viral infection of marine bacteria. <i>Limnology and Oceanography</i> , <b>2010</b> , 55, 2317-2330	4.8	10
61	Major role of microbes in carbon fluxes during Austral winter in the Southern Drake Passage. <i>PLoS ONE</i> , <b>2009</b> , 4, e6941	3.7	48
60	Resilience of coral-associated bacterial communities exposed to fish farm effluent. <i>PLoS ONE</i> , <b>2009</b> , 4, e7319	3.7	85
59	BACTERIA-INDUCED MOTILITY REDUCTION IN LINGULODINIUM POLYEDRUM (DINOPHYCEAE)(1). <i>Journal of Phycology</i> , <b>2008</b> , 44, 923-8	3	21
58	Gradients of coastal fish farm effluents and their effect on coral reef microbes. <i>Environmental Microbiology</i> , <b>2008</b> , 10, 2299-312	5.2	48
57	Cultivation and ecosystem role of a marine roseobacter clade-affiliated cluster bacterium. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 2595-603	4.8	72
56	Microbial ecology of four coral atolls in the Northern Line Islands. <i>PLoS ONE</i> , <b>2008</b> , 3, e1584	3.7	292
55	The Microbial Loop. <i>Oceanography</i> , <b>2007</b> , 20, 28-33	2.3	227
54	Microbial structuring of marine ecosystems. <i>Nature Reviews Microbiology</i> , <b>2007</b> , 5, 782-91	22.2	938
53	Vertical distribution of picoeukaryotic diversity in the Sargasso Sea. <i>Environmental Microbiology</i> , <b>2007</b> , 9, 1233-52	5.2	153
52	<i>Vibrio cholerae</i> strains possess multiple strategies for abiotic and biotic surface colonization. <i>Journal of Bacteriology</i> , <b>2007</b> , 189, 5348-60	3.5	67
51	Actively growing bacteria in the inland sea of Japan, identified by combined bromodeoxyuridine immunocapture and denaturing gradient gel electrophoresis. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 2787-98	4.8	43
50	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> , <b>2007</b> , 54, 1744-1757	2.5	28

49	Trophic regulation of <i>Vibrio cholerae</i> in coastal marine waters. <i>Environmental Microbiology</i> , <b>2006</b> , 8, 21-95.2	80
48	Widespread occurrence of phage-encoded exotoxin genes in terrestrial and aquatic environments in Southern California. <i>FEMS Microbiology Letters</i> , <b>2006</b> , 261, 141-9	2.9 46
47	Antagonistic interactions among marine bacteria impede the proliferation of <i>Vibrio cholerae</i> . <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 8531-6	4.8 67
46	A glimpse into the expanded genome content of <i>Vibrio cholerae</i> through identification of genes present in environmental strains. <i>Journal of Bacteriology</i> , <b>2005</b> , 187, 2992-3001	3.5 49
45	Oceanography. Microbes, molecules, and marine ecosystems. <i>Science</i> , <b>2004</b> , 303, 1622-4	33.3 123
44	Algicidal bacteria in the sea and their impact on algal blooms. <i>Journal of Eukaryotic Microbiology</i> , <b>2004</b> , 51, 139-44	3.6 344
43	The oceanic gel phase: a bridge in the DOMBOM continuum. <i>Marine Chemistry</i> , <b>2004</b> , 92, 67-85	3.7 483
42	2-n-Pentyl-4-quinolinol produced by a marine <i>Alteromonas</i> sp. and its potential ecological and biogeochemical roles. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 568-76	4.8 80
41	The balance between silica production and silica dissolution in the sea: Insights from Monterey Bay, California, applied to the global data set. <i>Limnology and Oceanography</i> , <b>2003</b> , 48, 1846-1854	4.8 74
40	Diminished efficiency in the oceanic silica pump caused by bacteria-mediated silica dissolution. <i>Limnology and Oceanography</i> , <b>2003</b> , 48, 1855-1868	4.8 63
39	Growth of <i>Vibrio cholerae</i> O1 in red tide waters off California. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 6923-31	4.8 78
38	Regulation of oceanic silicon and carbon preservation by temperature control on bacteria. <i>Science</i> , <b>2002</b> , 298, 1980-4	33.3 83
37	Genomic analysis of uncultured marine viral communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 14250-5	11.5 710
36	Widespread N-acetyl-D-glucosamine uptake among pelagic marine bacteria and its ecological implications. <i>Applied and Environmental Microbiology</i> , <b>2002</b> , 68, 5554-62	4.8 96
35	Thin laser light sheet microscope for microbial oceanography. <i>Optics Express</i> , <b>2002</b> , 10, 145-54	3.3 130
34	Introduction, history, and overview: The methods to our madness. <i>Methods in Microbiology</i> , <b>2001</b> , 30, 1-12	2.8 7
33	Bacterial control of silicon regeneration from diatom detritus: Significance of bacterial ectohydrolases and species identity. <i>Limnology and Oceanography</i> , <b>2001</b> , 46, 1606-1623	4.8 112
32	Antagonistic interactions among marine pelagic bacteria. <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 4975-83	4.8 276

31	Genome size distributions indicate variability and similarities among marine viral assemblages from diverse environments. <i>Limnology and Oceanography</i> , <b>2000</b> , 45, 1697-1706	4.8	116
30	Dynamics of Bacterial Community Composition and Activity during a Mesocosm Diatom Bloom. <i>Applied and Environmental Microbiology</i> , <b>2000</b> , 66, 2282-2282	4.8	2
29	Constraining bacterial production, conversion efficiency and respiration in the Ross Sea, Antarctica, January-February, 1997. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2000</b> , 47, 3227-3247	2.3	59
28	Microbial food web structure in the Arabian Sea: a US JGOFS study. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>2000</b> , 47, 1387-1422	2.3	158
27	Dynamics of bacterial community composition and activity during a mesocosm diatom bloom. <i>Applied and Environmental Microbiology</i> , <b>2000</b> , 66, 578-87	4.8	464
26	Accelerated dissolution of diatom silica by marine bacterial assemblages. <i>Nature</i> , <b>1999</b> , 397, 508-512	50.4	394
25	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> , <b>1999</b> , 46, 1791-1811	2.3	72
24	Nanoscale patchiness of bacteria in lake water studied with the spatial information preservation method. <i>Limnology and Oceanography</i> , <b>1998</b> , 43, 307-314	4.8	17
23	Spatially explicit simulations of a microbial food web. <i>Limnology and Oceanography</i> , <b>1997</b> , 42, 613-622	4.8	30
22	Bacterial mediation of carbon fluxes during a diatom bloom in a mesocosm. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>1995</b> , 42, 75-97	2.3	165
21	Bacteria in Oceanic Carbon Cycling as a Molecular Problem <b>1995</b> , 39-54		6
20	Significance of bacteria in carbon fluxes in the Arabian Sea. <i>Journal of Earth System Science</i> , <b>1994</b> , 103, 341-351	1.8	12
19	Blooms of sequence-specific culturable bacteria in the sea. <i>FEMS Microbiology Letters</i> , <b>1993</b> , 102, 161-166	6.9	93
18	Bacterial transformation and transport of organic matter in the Southern California Bight. <i>Progress in Oceanography</i> , <b>1992</b> , 30, 151-166	3.8	18
17	Intense hydrolytic enzyme activity on marine aggregates and implications for rapid particle dissolution. <i>Nature</i> , <b>1992</b> , 359, 139-142	50.4	702
16	Bacterial 5'-nucleotidase activity in estuarine and coastal marine waters: Characterization of enzyme activity. <i>Limnology and Oceanography</i> , <b>1991</b> , 36, 1427-1436	4.8	40
15	The role of the microbial loop in Antarctic pelagic ecosystems. <i>Polar Research</i> , <b>1991</b> , 10, 239-244	2	50
14	The role of the microbial loop in Antarctic pelagic ecosystems. <i>Polar Research</i> , <b>1991</b> , 10, 239-244	2	16

13	Elemental cycling and fluxes off southern California. <i>Eos</i> , <b>1989</b> , 70, 146	1.5	32
12	Major role of bacteria in biogeochemical fluxes in the ocean's interior. <i>Nature</i> , <b>1988</b> , 332, 441-443	50.4	567
11	Measurement of Bacterioplankton Growth in the Sea and Its Regulation by Environmental Conditions <b>1984</b> , 179-196		30
10	Cycling of Organic Matter by Bacterioplankton in Pelagic Marine Ecosystems: Microenvironmental Considerations <b>1984</b> , 345-360		71
9	Bacterial secondary production in freshwater measured by(3)H-thymidine incorporation method. <i>Microbial Ecology</i> , <b>1982</b> , 8, 101-113	4.4	94
8	Uptake of Cyclic AMP by Natural Populations of Marine Bacteria. <i>Applied and Environmental Microbiology</i> , <b>1982</b> , 43, 869-76	4.8	27
7	Bacterioplankton secondary production estimates for coastal waters of british columbia, antarctica, and california. <i>Applied and Environmental Microbiology</i> , <b>1980</b> , 39, 1085-95	4.8	554
6	Occurrence and Characterization of a Phosphoenolpyruvate: Glucose Phosphotransferase System in a Marine Bacterium, <i>Serratia marino</i> rubra. <i>Applied and Environmental Microbiology</i> , <b>1979</b> , 38, 1086-91	4.8	10
5	Role of silicon in diatom metabolism. <i>Archives of Microbiology</i> , <b>1974</b> , 101, 1-8	3	41
4	Silicic-acid uptake in diatoms studied with [(68)Ge]germanic acid as tracer. <i>Planta</i> , <b>1974</b> , 121, 205-12	4.7	68
3	Role of silicon in diatom metabolism. V. Silicic acid transport and metabolism in the heterotrophic diatom <i>Nitzschia alba</i> . <i>Archives of Microbiology</i> , <b>1974</b> , 97, 103-14	3	92
2	Role of Silicon in Diatom Metabolism. <i>Physiologia Plantarum</i> , <b>1974</b> , 30, 265-272	4.6	52
1	Germanium incorporation into the silica of diatom cell walls. <i>Archives of Microbiology</i> , <b>1973</b> , 92, 11-20	3	72