

# Sunny C Jiang

## List of Publications by Citations

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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.

120  
papers

5,290  
citations

41  
h-index

70  
g-index

124  
ext. papers

5,951  
ext. citations

6.5  
avg, IF

5.89  
L-index

#	Paper	IF	Citations
120	Taking the "waste" out of "wastewater" for human water security and ecosystem sustainability. <i>Science</i> , <b>2012</b> , 337, 681-6	33.3	394
119	Human adenoviruses and coliphages in urban runoff-impacted coastal waters of Southern California. <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 179-84	4.8	261
118	Gene transfer by transduction in the marine environment. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 2780-7	4.8	217
117	Quantification of enterococci and human adenoviruses in environmental samples by real-time PCR. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 2250-5	4.8	191
116	Molecular analysis of <i>Vibrio cholerae</i> O1, O139, non-O1, and non-O139 strains: clonal relationships between clinical and environmental isolates. <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 910-21	4.8	177
115	Seasonal and diel abundance of viruses and occurrence of lysogeny/bacteriocinogeny in the marine environment. <i>Marine Ecology - Progress Series</i> , <b>1994</b> , 104, 163-172	2.6	163
114	Human adenoviruses in water: occurrence and health implications: a critical review. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 7132-40	10.3	154
113	Predictability of <i>Vibrio cholerae</i> in Chesapeake Bay. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 2773-85	4.8	154
112	Significance of Lysogeny in the Marine Environment: Studies with Isolates and a Model of Lysogenic Phage Production. <i>Microbial Ecology</i> , <b>1998</b> , 35, 235-43	4.4	133
111	Coastal water quality impact of stormwater runoff from an urban watershed in southern California. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 5940-53	10.3	127
110	Real-time PCR quantification of human adenoviruses in urban rivers indicates genome prevalence but low infectivity. <i>Applied and Environmental Microbiology</i> , <b>2005</b> , 71, 7426-33	4.8	124
109	Electrochemical disinfection of toilet wastewater using wastewater electrolysis cell. <i>Water Research</i> , <b>2016</b> , 92, 164-72	12.5	123
108	Occurrence of lysogenic bacteria in marine microbial communities as determined by prophage induction. <i>Marine Ecology - Progress Series</i> , <b>1996</b> , 142, 27-38	2.6	116
107	PCR detection of pathogenic viruses in southern California urban rivers. <i>Journal of Applied Microbiology</i> , <b>2004</b> , 97, 17-28	4.7	110
106	From Rain Tanks to Catchments: Use of Low-Impact Development To Address Hydrologic Symptoms of the Urban Stream Syndrome. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 11264-80	10.3	100
105	Isolation and characterization of an atrazine-degrading bacterium from industrial wastewater in China. <i>Letters in Applied Microbiology</i> , <b>2003</b> , 36, 272-6	2.9	92
104	Host-specific adaptation governs the interaction of the marine diatom, <i>Pseudo-nitzschia</i> and their microbiota. <i>ISME Journal</i> , <b>2014</b> , 8, 63-76	11.9	85

103	Use of viral pathogens and indicators to differentiate between human and non-human fecal contamination in a microbial source tracking comparison study. <i>Journal of Water and Health</i> , <b>2003</b> , 1, 195-207	2.2	80
102	Viruses, bacterioplankton, and phytoplankton in the southeastern Gulf of Mexico: distribution and contribution to oceanic DNA pools. <i>Marine Ecology - Progress Series</i> , <b>1993</b> , 97, 1-10	2.6	80
101	Flow fingerprinting fecal pollution and suspended solids in stormwater runoff from an urban coastal watershed. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 4435-41	10.3	77
100	Evidence for groundwater and surface marine water contamination by waste disposal wells in the Florida keys. <i>Water Research</i> , <b>1997</b> , 31, 1448-1454	12.5	70
99	Genetic diversity of clinical and environmental isolates of <i>Vibrio cholerae</i> determined by amplified fragment length polymorphism fingerprinting. <i>Applied and Environmental Microbiology</i> , <b>2000</b> , 66, 148-53	4.8	65
98	Assessment of public health risk associated with viral contamination in harvested urban stormwater for domestic applications. <i>Science of the Total Environment</i> , <b>2015</b> , 523, 95-108	10.2	64
97	Microbial source tracking in a small southern California urban watershed indicates wild animals and growth as the source of fecal bacteria. <i>Applied Microbiology and Biotechnology</i> , <b>2007</b> , 76, 927-34	5.7	61
96	Characterization of marine temperate phage-host systems isolated from Mamala Bay, Oahu, Hawaii. <i>Applied and Environmental Microbiology</i> , <b>1998</b> , 64, 535-42	4.8	59
95	Composition and variability of biofouling organisms in seawater reverse osmosis desalination plants. <i>Applied and Environmental Microbiology</i> , <b>2011</b> , 77, 4390-8	4.8	58
94	Genetic diversity of <i>Vibrio cholerae</i> in Chesapeake Bay determined by amplified fragment length polymorphism fingerprinting. <i>Applied and Environmental Microbiology</i> , <b>2000</b> , 66, 140-7	4.8	57
93	Occurrence of fecal indicator bacteria in surface waters and the subsurface aquifer in Key Largo, Florida. <i>Applied and Environmental Microbiology</i> , <b>1995</b> , 61, 2235-41	4.8	57
92	Ecological control of fecal indicator bacteria in an urban stream. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 631-7	10.3	55
91	Seasonal detection of human viruses and coliphage in Newport Bay, California. <i>Applied and Environmental Microbiology</i> , <b>2007</b> , 73, 6468-74	4.8	54
90	Genetic diversity of related vibriophages isolated from marine environments around Florida and Hawaii, USA. <i>Marine Ecology - Progress Series</i> , <b>1995</b> , 120, 89-98	2.6	53
89	Reusing Treated Wastewater: Consideration of the Safety Aspects Associated with Antibiotic-Resistant Bacteria and Antibiotic Resistance Genes. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 244	3	52
88	Abundance, distribution, and diversity of viruses in alkaline, hypersaline Mono Lake, California. <i>Microbial Ecology</i> , <b>2004</b> , 47, 9-17	4.4	52
87	Investigation of environmental influences on membrane biofouling in a Southern California desalination pilot plant. <i>Desalination</i> , <b>2013</b> , 319, 1-9	10.3	51
86	Application of enterococci antibiotic resistance patterns for contamination source identification at Huntington Beach, California. <i>Marine Pollution Bulletin</i> , <b>2003</b> , 46, 748-55	6.7	51

85	Recommendations for microbial source tracking: Lessons from a methods comparison study. <i>Journal of Water and Health</i> , <b>2003</b> , 1, 225-231	2.2	50
84	Substrate removal and electricity generation in a membrane-less microbial fuel cell for biological treatment of wastewater. <i>Bioresource Technology</i> , <b>2013</b> , 138, 109-16	11	49
83	Viral contribution to dissolved DNA in the marine environment as determined by differential centrifugation and kingdom probing. <i>Applied and Environmental Microbiology</i> , <b>1995</b> , 61, 317-25	4.8	43
82	Current technologies and future directions for treating petroleum refineries and petrochemical plants (PRPP) wastewaters. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103326	6.8	41
81	Molecular characterization of <i>Vibrio cholerae</i> outbreak strains with altered El Tor biotype from southern India. <i>World Journal of Microbiology and Biotechnology</i> , <b>2010</b> , 26, 281-287	4.4	41
80	Seasonal Abundance and Distribution of <i>Vibrio cholerae</i> in Coastal Waters Quantified by a 16S-23S Intergenic Spacer Probe. <i>Microbial Ecology</i> , <b>2001</b> , 42, 540-548	4.4	41
79	Quantitative microbial risk assessment of pathogenic vibrios in marine recreational waters of southern california. <i>Applied and Environmental Microbiology</i> , <b>2013</b> , 79, 294-302	4.8	37
78	Quantitative microbial risk assessment of Greywater on-site reuse. <i>Science of the Total Environment</i> , <b>2018</b> , 635, 1507-1519	10.2	36
77	Detection of infectious adenoviruses in environmental waters by fluorescence-activated cell sorting assay. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 1442-8	4.8	36
76	Genetic determinants of virulence, antibiogram and altered biotype among the <i>Vibrio cholerae</i> O1 isolates from different cholera outbreaks in India. <i>Infection, Genetics and Evolution</i> , <b>2010</b> , 10, 815-9	4.5	36
75	Real-time quantitative PCR for enteric adenovirus serotype 40 in environmental waters. <i>Canadian Journal of Microbiology</i> , <b>2005</b> , 51, 393-8	3.2	36
74	Evaluation of recreational health risk in coastal waters based on enterococcus densities and bathing patterns. <i>Environmental Health Perspectives</i> , <b>2003</b> , 111, 598-603	8.4	36
73	Sludge disinfection using electrical thermal treatment: The role of ohmic heating. <i>Science of the Total Environment</i> , <b>2018</b> , 615, 262-271	10.2	34
72	Reevaluation of health risk benchmark for sustainable water practice through risk analysis of rooftop-harvested rainwater. <i>Water Research</i> , <b>2013</b> , 47, 7273-86	12.5	34
71	Coliphage and indigenous phage in Mamala Bay, Oahu, Hawaii. <i>Applied and Environmental Microbiology</i> , <b>1997</b> , 63, 133-8	4.8	34
70	Inhibiting quorum sensing pathways to mitigate seawater desalination RO membrane biofouling. <i>Desalination</i> , <b>2016</b> , 393, 135-143	10.3	33
69	Comparison of recreational health risks associated with surfing and swimming in dry weather and post-storm conditions at Southern California beaches using quantitative microbial risk assessment (QMRA). <i>Marine Pollution Bulletin</i> , <b>2012</b> , 64, 912-8	6.7	32
68	Smartphone-Based in-Gel Loop-Mediated Isothermal Amplification (gLAMP) System Enables Rapid Coliphage MS2 Quantification in Environmental Waters. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 6399-6407	10.3	31

67	Spatial and temporal variability of prokaryotes, viruses, and viral infections of prokaryotes in an alkaline, hypersaline lake. <i>Aquatic Microbial Ecology</i> , <b>2005</b> , 41, 247-260	1.1	31
66	When the fourth water and digital revolution encountered COVID-19. <i>Science of the Total Environment</i> , <b>2020</b> , 744, 140980	10.2	30
65	Concentration of viruses from environmental waters using nanoalumina fiber filters. <i>Journal of Microbiological Methods</i> , <b>2010</b> , 81, 33-8	2.8	29
64	Prevalence of cholera toxin genes (ctxA and zot) among non-O1/O139 <i>Vibrio cholerae</i> strains from Newport Bay, California. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 7541-4	4.8	29
63	Phytoplankton-Associated Bacterial Community Composition and Succession during Toxic Diatom Bloom and Non-Bloom Events. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1433	5.7	29
62	Use of viral pathogens and indicators to differentiate between human and non-human fecal contamination in a microbial source tracking comparison study. <i>Journal of Water and Health</i> , <b>2003</b> , 1, 195-207	2.2	29
61	Concentrating ammonium in wastewater by forward osmosis using a surface modified nanofiltration membrane. <i>Environmental Science: Water Research and Technology</i> , <b>2019</b> , 5, 246-255	4.2	27
60	Human and environmental health risks and benefits associated with use of urban stormwater. <i>Wiley Interdisciplinary Reviews: Water</i> , <b>2015</b> , 2, 683-699	5.7	25
59	Evaluating options for balancing the water-electricity nexus in California: part 1--securing water availability. <i>Science of the Total Environment</i> , <b>2014</b> , 497-498, 697-710	10.2	24
58	Evaluating options for balancing the water-electricity nexus in California: Part 2--greenhouse gas and renewable energy utilization impacts. <i>Science of the Total Environment</i> , <b>2014</b> , 497-498, 711-724	10.2	24
57	The vertical distribution and diversity of marine bacteriophage at a station off Southern California. <i>Microbial Ecology</i> , <b>2003</b> , 45, 399-410	4.4	24
56	Lysogeny and transduction. <i>Methods in Microbiology</i> , <b>2001</b> , 105-125	2.8	22
55	Investigation of compounds that degrade biofilm polysaccharides on reverse osmosis membranes from a full scale desalination plant to alleviate biofouling. <i>Desalination</i> , <b>2017</b> , 403, 88-96	10.3	21
54	Concentration of microbial populations from aquatic environments by Vortex Flow Filtration. <i>Marine Ecology - Progress Series</i> , <b>1992</b> , 80, 101-107	2.6	20
53	Evaluation of four cell lines for assay of infectious adenoviruses in water samples. <i>Journal of Water and Health</i> , <b>2009</b> , 7, 650-6	2.2	19
52	Web-based investigation of water associated illness in marine bathers. <i>Environmental Research</i> , <b>2008</b> , 106, 101-9	7.9	19
51	Evaluation of methods for reverse osmosis membrane integrity monitoring for wastewater reuse. <i>Journal of Water Process Engineering</i> , <b>2015</b> , 7, 161-168	6.7	18
50	Marine bacterial biofilm formation and its responses to periodic hyperosmotic stress on a flat sheet membrane for seawater desalination pretreatment. <i>Journal of Membrane Science</i> , <b>2013</b> , 425-426, 182-189	8.6	18

49	Balancing carbon, nitrogen and phosphorus concentration in seawater as a strategy to prevent accelerated membrane biofouling. <i>Water Research</i> , <b>2019</b> , 165, 114978	12.5	15
48	Detection and risk assessment of diarrheagenic E. coli in recreational beaches of Brazil. <i>Marine Pollution Bulletin</i> , <b>2016</b> , 109, 163-170	6.7	15
47	Assessment of Cryptosporidium and norovirus risk associated with de facto wastewater reuse in Trinity River, Texas. <i>Microbial Risk Analysis</i> , <b>2017</b> , 5, 15-24	1.6	15
46	Impacts of beach closures on perceptions of swimming-related health risk in Orange County, California. <i>Marine Pollution Bulletin</i> , <b>2004</b> , 48, 132-6	6.7	15
45	Soil invertebrates in Australian rain gardens and their potential roles in storage and processing of nitrogen. <i>Ecological Engineering</i> , <b>2016</b> , 97, 138-143	3.9	14
44	Sunlight-Activated Propidium Monoazide Pretreatment for Differentiation of Viable and Dead Bacteria by Quantitative Real-Time Polymerase Chain Reaction. <i>Environmental Science and Technology Letters</i> , <b>2016</b> , 3, 57-61	11	14
43	Vibrio cholerae in recreational beach waters and tributaries of Southern California. <i>Hydrobiologia</i> , <b>2001</b> , 460, 157-164	2.4	14
42	Storm runoff differentially influences the nutrient concentrations and microbial contamination at two distinct beaches in northern China. <i>Science of the Total Environment</i> , <b>2019</b> , 663, 400-407	10.2	13
41	Incorporation of Quorum Sensing Inhibitors onto Reverse Osmosis Membranes for Biofouling Prevention in Seawater Desalination. <i>Environmental Engineering Science</i> , <b>2018</b> , 35, 261-269	2	13
40	Near Real-Time Flow Cytometry Monitoring of Bacterial and Viral Removal Efficiencies during Water Reclamation Processes. <i>Water (Switzerland)</i> , <b>2016</b> , 8, 464	3	13
39	Transfer of cholera toxin genes from O1 to non-O1/O139 strains by vibriophages from California coastal waters. <i>Journal of Applied Microbiology</i> , <b>2010</b> , 108, 1015-1022	4.7	12
38	Isolation and genetic analysis of haloalkaliphilic bacteriophages in a North American Soda Lake. <i>Microbial Ecology</i> , <b>2006</b> , 51, 543-54	4.4	12
37	A dose response model for quantifying the infection risk of antibiotic-resistant bacteria. <i>Scientific Reports</i> , <b>2019</b> , 9, 17093	4.9	12
36	Recommendations for microbial source tracking: lessons from a methods comparison study. <i>Journal of Water and Health</i> , <b>2003</b> , 1, 225-31	2.2	12
35	Mitigation of biofouling in agricultural water distribution systems with nanobubbles. <i>Environment International</i> , <b>2020</b> , 141, 105787	12.9	11
34	Shifts in dissolved organic matter and microbial community composition are associated with enhanced removal of fecal pollutants in urban stormwater wetlands. <i>Water Research</i> , <b>2018</b> , 137, 310-323	12.5	11
33	Alterations of the human skin microbiome after ocean water exposure. <i>Marine Pollution Bulletin</i> , <b>2019</b> , 145, 595-603	6.7	11
32	Detection and quantification of enteroviruses in coastal seawaters from Bohai Bay, Tianjin, China. <i>Journal of Environmental Sciences</i> , <b>2010</b> , 22, 150-4	6.4	11

31	Efficient removal of selenate in water by cationic poly(allyltrimethylammonium) grafted chitosan and biochar composite. <i>Environmental Research</i> , <b>2021</b> , 194, 110667	7.9	11
30	Genetic diversity of human polyomavirus JCPyV in Southern California wastewater. <i>Journal of Water and Health</i> , <b>2008</b> , 6, 533-8	2.2	10
29	Assessing the water quality impacts of two Category-5 hurricanes on St. Thomas, Virgin Islands. <i>Water Research</i> , <b>2020</b> , 171, 115440	12.5	10
28	Quantifying the risk of indoor drainage system in multi-unit apartment building as a transmission route of SARS-CoV-2. <i>Science of the Total Environment</i> , <b>2021</b> , 762, 143056	10.2	10
27	Can cyanotoxins penetrate human skin during water recreation to cause negative health effects?. <i>Harmful Algae</i> , <b>2020</b> , 98, 101872	5.3	9
26	Ecology of coliphages in southern California coastal waters. <i>Journal of Applied Microbiology</i> , <b>2010</b> , 109, 431-440	4.7	7
25	Chemical and Biological Analyses of Bay Sediment Where Magnesium Oxide Compounds Are Applied. <i>Environmental Engineering Research</i> , <b>2014</b> , 19, 101-105	3.6	6
24	An improved CFD modeling approach applied for the simulation of gas-liquid interaction in the ozone contactor along with structure optimization. <i>Chemical Engineering Journal</i> , <b>2020</b> , 384, 123322	14.7	6
23	Application of unstructured kinetic models to predict microcystin biodegradation: Towards a practical approach for drinking water treatment. <i>Water Research</i> , <b>2019</b> , 149, 617-631	12.5	6
22	A dynamic transport model for quantification of norovirus internalization in lettuce from irrigation water and associated health risk. <i>Science of the Total Environment</i> , <b>2018</b> , 643, 751-761	10.2	6
21	Evaluation of the dry and wet weather recreational health risks in a semi-enclosed marine embayment in Southern California. <i>Water Research</i> , <b>2017</b> , 111, 318-329	12.5	5
20	Investigations of soil autotrophic ammonia oxidizers in farmlands through genetics and big data analysis. <i>Science of the Total Environment</i> , <b>2021</b> , 777, 146091	10.2	5
19	Surface modification of a microfiltration membrane for enhanced anti-biofouling capability in wastewater treatment process. <i>Journal of Water Process Engineering</i> , <b>2018</b> , 26, 55-61	6.7	5
18	Lysogens and free viruses in fresh, brackish, and marine waters: a Bayesian analysis. <i>FEMS Microbiology Ecology</i> , <b>2009</b> , 69, 243-54	4.3	4
17	Acquisition of antibiotic resistance genes on human skin after swimming in the ocean. <i>Environmental Research</i> , <b>2021</b> , 197, 110978	7.9	4
16	The Effect of Organic Carbon Addition on the Community Structure and Kinetics of Microcystin-Degrading Bacterial Consortia. <i>Water (Switzerland)</i> , <b>2018</b> , 10, 1523	3	4
15	The risk of Staphylococcus skin infection during space travel and mitigation strategies. <i>Microbial Risk Analysis</i> , <b>2019</b> , 11, 23-30	1.6	2
14	Investigation of Algal Biotxin Removal during SWRO Desalination through a Materials Flow Analysis. <i>Water (Switzerland)</i> , <b>2017</b> , 9, 730	3	2

13	Quantification of Enterococci and Human Adenoviruses in Environmental Samples by Real-Time PCR. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 557-557	4.8	2
12	Development of a proof-of-concept microfluidic portable pathogen analysis system for water quality monitoring.. <i>Science of the Total Environment</i> , <b>2021</b> , 813, 152556	10.2	2
11	Viruses and DNA in Marine Environments <b>1996</b> , 115-124		2
10	Suspended particles are hotspots for pathogen-related bacteria and ARGs in coastal beach waters of northern China.. <i>Science of the Total Environment</i> , <b>2022</b> , 817, 153004	10.2	1
9	Integrating Virus Monitoring Strategies for Safe Non-Potable Water Reuse. <i>Water (Switzerland)</i> , <b>2022</b> , 14, 1187	3	1
8	Assessing the Risk of Legionella Infection through Showering with Untreated Rain Cistern Water in a Tropical Environment. <i>Water (Switzerland)</i> , <b>2021</b> , 13, 889	3	0
7	Detection of SARS-CoV-2 in Wastewater: Community Variability, Temporal Dynamics, and Genotype Diversity. <i>ACS ES&amp;T Water</i> , <b>2021</b> , 1, 1816-1825		0
6	16S rRNA gene sequencing data of the human skin microbiome before and after swimming in the ocean. <i>Data in Brief</i> , <b>2021</b> , 37, 107207	1.2	0
5	Response to Comment on "Coastal Water Quality Impact of Stormwater Runoff from an Urban Watershed in Southern California" <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 3441-3442	10.3	
4	<i>Vibrio cholerae</i> in recreational beach waters and tributaries of Southern California <b>2001</b> , 157-164		
3	DETECTION OF HUMAN ADENOVIRUSES IN COASTAL WATERS OF SOUTHERN CALIFORNIA. <i>Proceedings of the Water Environment Federation</i> , <b>2000</b> , 2000, 335-344		
2	Sanitary Microbiology of the Production and Distribution of Desalinated Drinking Water <b>2010</b> , 107-121		
1	A dose response model for <i>Staphylococcus aureus</i> . <i>Scientific Reports</i> , <b>2021</b> , 11, 12542	4.9	