

# Chuanwu Xi

## List of Publications by Year in Descending Order

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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.

103  
papers

4,251  
citations

36  
h-index

62  
g-index

107  
ext. papers

5,006  
ext. citations

6.6  
avg, IF

5.49  
L-index

#	Paper	IF	Citations
103	PM drives bacterial functions for carbon, nitrogen, and sulfur cycles in the atmosphere.. <i>Environmental Pollution</i> , <b>2021</b> , 295, 118715	9.3	1
102	Antimicrobial Resistance of in Gastric Biopsy Samples from Lima/Peru. <i>Microbial Drug Resistance</i> , <b>2021</b> , 27, 951-955	2.9	1
101	U.S.-China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 9622-9626	10.3	2
100	Excessive nitrogen addition accelerates N assimilation and P utilization by enhancing organic carbon decomposition in a Tibetan alpine steppe. <i>Science of the Total Environment</i> , <b>2021</b> , 764, 142848	10.2	10
99	Delivering nitric oxide with poly(n-butyl methacrylate) films doped with S-nitroso-N-acetylpenicillamine. <i>Polymer</i> , <b>2021</b> , 228, 123943	3.9	1
98	Dominance of comammox Nitrospira in soil nitrification. <i>Science of the Total Environment</i> , <b>2021</b> , 780, 146558	10.2	12
97	Airborne microorganisms exacerbate the formation of atmospheric ammonium and sulfate. <i>Environmental Pollution</i> , <b>2020</b> , 263, 114293	9.3	10
96	Strategy for denitrifying anaerobic methane-oxidizing bacteria growing under the oxygen-present condition. <i>Science of the Total Environment</i> , <b>2020</b> , 742, 140476	10.2	7
95	Temporal discrepancy of airborne total bacteria and pathogenic bacteria between day and night. <i>Environmental Research</i> , <b>2020</b> , 186, 109540	7.9	10
94	Multilevel Nitrogen Additions Alter Chemical Composition and Turnover of the Labile Fraction Soil Organic Matter via Effects on Vegetation and Microorganisms. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2020</b> , 125, e2019JG005316	3.7	2
93	Glycine-based treatment ameliorates NAFLD by modulating fatty acid oxidation, glutathione synthesis, and the gut microbiome. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	32
92	Nitric Oxide-Releasing Insert for Disinfecting the Hub Region of Tunnel Dialysis Catheters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 44475-44484	9.5	4
91	The distribution variance of airborne microorganisms in urban and rural environments. <i>Environmental Pollution</i> , <b>2019</b> , 247, 898-906	9.3	36
90	Nitric oxide releasing two-part creams containing S-nitrosoglutathione and zinc oxide for potential topical antimicrobial applications. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2019</b> , 90, 1-9	5	11
89	Ecological Success of the Nitrosopumilus and Nitrosospira Clusters in the Intertidal Zone. <i>Microbial Ecology</i> , <b>2019</b> , 78, 555-564	4.4	9
88	Nitric oxide releasing poly(vinylidene fluoride-co-hexafluoropropylene) films using a fluorinated nitric oxide donor to greatly decrease chemical leaching. <i>Acta Biomaterialia</i> , <b>2019</b> , 90, 112-121	10.8	5
87	The Activity of Small Urea-FAApeptides Toward Gram-Positive Bacteria. <i>ChemMedChem</i> , <b>2019</b> , 14, 1963-1967	3.7	1

86	Comparison of Soil Organic Matter Transformation Processes in Different Alpine Ecosystems in the Qinghai-Tibet Plateau. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2019</b> , 124, 33-45	3.7	8
85	Asymmetric transfer efficiencies between fomites and fingers: Impact on model parameterization. <i>American Journal of Infection Control</i> , <b>2018</b> , 46, 620-626	3.8	9
84	Sex dependent effects of silver nanoparticles on the zebrafish gut microbiota. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 740-751	7.1	41
83	Modeling the Emergence of Antibiotic Resistance in the Environment: an Analytical Solution for the Minimum Selection Concentration. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2018</b> , 62,	5.9	21
82	An assessment of drinking water contamination with Helicobacter pylori in Lima, Peru. <i>Helicobacter</i> , <b>2018</b> , 23, e12462	4.9	15
81	Comparison of Copper(II)-Ligand Complexes as Mediators for Preparing Electrochemically Modulated Nitric Oxide-Releasing Catheters. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 25047-25055	8.5	11
80	A Defined and Flexible Pocket Explains Aryl Substrate Promiscuity of the Cahuitamycin Starter Unit-Activating Enzyme CahJ. <i>ChemBioChem</i> , <b>2018</b> , 19, 1595-1600	3.8	9
79	Removal of from skin using a combination antibiofilm approach. <i>Npj Biofilms and Microbiomes</i> , <b>2018</b> , 4, 16	8.2	12
78	Influence of Household Water Filters on Bacteria Growth and Trace Metals in Tap Water of Doha, Qatar. <i>Scientific Reports</i> , <b>2018</b> , 8, 8268	4.9	19
77	Nitric oxide-releasing semi-crystalline thermoplastic polymers: preparation, characterization and application to devise anti-inflammatory and bactericidal implants. <i>Biomaterials Science</i> , <b>2018</b> , 6, 3189-3204	7.4	15
76	Synthesis and Characterization of a Fluorinated -Nitrosothiol as the Nitric Oxide Donor for Fluoropolymer-Based Biomedical Device Applications. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 6142-6152	7.3	11
75	Reduction of Thrombosis and Bacterial Infection via Controlled Nitric Oxide (NO) Release from -Nitroso--acetylpenicillamine (SNAP) Impregnated CarboSil Intravascular Catheters. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 349-359	5.5	41
74	Reduced infectivity of waterborne viable but nonculturable Helicobacter pylori strain SS1 in mice. <i>Helicobacter</i> , <b>2017</b> , 22, e12391	4.9	10
73	Study of Crystal Formation and Nitric Oxide (NO) Release Mechanism from -Nitroso--acetylpenicillamine (SNAP)-Doped CarboSil Polymer Composites for Potential Antimicrobial Applications. <i>Composites Part B: Engineering</i> , <b>2017</b> , 121, 23-33	10	17
72	The effect of interactions between a bacterial strain isolated from drinking water and a pathogen surrogate on biofilms formation diverged under static vs flow conditions. <i>Journal of Applied Microbiology</i> , <b>2017</b> , 123, 1614-1627	4.7	9
71	Antibiotic resistance among clinical isolates in Lima, Peru. <i>Infection and Drug Resistance</i> , <b>2017</b> , 10, 85-90	4.2	20
70	Targeting the Type II Secretion System: Development, Optimization, and Validation of a High-Throughput Screen for the Identification of Small Molecule Inhibitors. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2017</b> , 7, 380	5.9	24
69	Molecular characterization of microbial communities and quantification of Mycobacterium immunogenum in metal removal fluids and their associated biofilms. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 4086-94	5.1	4

68	Small Antimicrobial Agents Based on Acylated Reduced Amide Scaffold. <i>Journal of Medicinal Chemistry</i> , <b>2016</b> , 59, 7877-87	8.3	38
67	Electrochemically Modulated Nitric Oxide Release From Flexible Silicone Rubber Patch: Antimicrobial Activity For Potential Wound Healing Applications. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1432-1435	5.5	13
66	A novel strategy for acetonitrile wastewater treatment by using a recombinant bacterium with biofilm-forming and nitrile-degrading capability. <i>Chemosphere</i> , <b>2016</b> , 161, 224-232	8.4	19
65	Improved Hemocompatibility of Multilumen Catheters via Nitric Oxide (NO) Release from S-Nitroso-N-acetylpenicillamine (SNAP) Composite Filled Lumen. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 29270-29279	9.5	30
64	The preparation and characterization of nitric oxide releasing silicone rubber materials impregnated with -nitroso--dodecyl mercaptan. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 422-430	7.3	20
63	A novel heterotrophic nitrifying and aerobic denitrifying bacterium, <i>Zobellella taiwanensis</i> DN-7, can remove high-strength ammonium. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 4219-29	5.7	75
62	Discovery of cahitamycins as biofilm inhibitors derived from a convergent biosynthetic pathway. <i>Nature Communications</i> , <b>2016</b> , 7, 10710	17.4	50
61	The influence of biofilm formation and multidrug resistance on environmental survival of clinical and environmental isolates of <i>Acinetobacter baumannii</i> . <i>American Journal of Infection Control</i> , <b>2016</b> , 44, e65-71	3.8	58
60	Perinatal Lead Exposure Alters Gut Microbiota Composition and Results in Sex-specific Bodyweight Increases in Adult Mice. <i>Toxicological Sciences</i> , <b>2016</b> , 151, 324-33	4.4	81
59	Efficient Eradication of Mature <i>Pseudomonas aeruginosa</i> Biofilm via Controlled Delivery of Nitric Oxide Combined with Antimicrobial Peptide and Antibiotics. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 1260	5.7	34
58	Apyrase Elicits Host Antimicrobial Responses and Resolves Infection in Burns. <i>Journal of Burn Care and Research</i> , <b>2016</b> , 37, e501-e507	0.8	2
57	Survival of <i>Helicobacter pylori</i> in the wastewater treatment process and the receiving river in Michigan, USA. <i>Journal of Water and Health</i> , <b>2016</b> , 14, 692-8	2.2	9
56	Evaluation of the ability of <i>Acinetobacter baumannii</i> to form biofilms on six different biomedical relevant surfaces. <i>Letters in Applied Microbiology</i> , <b>2016</b> , 63, 233-9	2.9	33
55	-Nitroso--acetylpenicillamine (SNAP) Impregnated Silicone Foley Catheters: A Potential Biomaterial/Device To Prevent Catheter-Associated Urinary Tract Infections. <i>ACS Biomaterials Science and Engineering</i> , <b>2015</b> , 1, 416-424	5.5	62
54	Effects of Peptide Immobilization Sites on the Structure and Activity of Surface-Tethered Antimicrobial Peptides. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 7146-7155	3.8	48
53	Origin of Long-Term Storage Stability and Nitric Oxide Release Behavior of CarboSil Polymer Doped with S-Nitroso-N-acetyl-D-penicillamine. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 22218-27	9.5	70
52	Fomite-fingerpad transfer efficiency (pick-up and deposit) of <i>Acinetobacter baumannii</i> -with and without a latex glove. <i>American Journal of Infection Control</i> , <b>2015</b> , 43, 928-34	3.8	26
51	Role of cytokine signaling in group B <i>Streptococcus</i> -stimulated expression of human beta defensin-2 in human extraplacental membranes. <i>American Journal of Reproductive Immunology</i> , <b>2015</b> , 73, 263-72	3.8	16

50	Interfacial Behaviors of Antimicrobial Peptide Cecropin P1 Immobilized on Different Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 22542-22551	3.8	20
49	Animal Model Reveals Potential Waterborne Transmission of Helicobacter pylori Infection. <i>Helicobacter</i> , <b>2015</b> , 20, 326-33	4.9	11
48	The trichloroethylene metabolite S-(1,2-dichlorovinyl)-l-cysteine but not trichloroacetate inhibits pathogen-stimulated TNF- $\alpha$ in human extraplacental membranes in vitro. <i>Reproductive Toxicology</i> , <b>2015</b> , 52, 1-6	3.4	12
47	Thromboresistant/anti-biofilm catheters via electrochemically modulated nitric oxide release. <i>Bioelectrochemistry</i> , <b>2015</b> , 104, 10-6	5.6	41
46	Picking a bone with heterotopic ossification: translational progress current and future. <i>Annals of Translational Medicine</i> , <b>2015</b> , 3, 188	3.2	1
45	Utilization of star-shaped polymer architecture in the creation of high-density polymer brush coatings for the prevention of platelet and bacteria adhesion. <i>Biomaterials Science</i> , <b>2014</b> , 2, 1172-1185	7.4	15
44	Electrochemically modulated nitric oxide (NO) releasing biomedical devices via copper(II)-Tri(2-pyridylmethyl)amine mediated reduction of nitrite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 3779-83	9.5	42
43	Different interfacial behaviors of peptides chemically immobilized on surfaces with different linker lengths and via different termini. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 2904-12	3.4	43
42	Optimized polymeric film-based nitric oxide delivery inhibits bacterial growth in a mouse burn wound model. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 4136-42	10.8	62
41	Differential resistance of drinking water bacterial populations to monochloramine disinfection. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 4038-47	10.3	112
40	Mini-review: Microbial coaggregation: ubiquity and implications for biofilm development. <i>Biofouling</i> , <b>2014</b> , 30, 1235-51	3.3	62
39	Adenosine triphosphate hydrolysis reduces neutrophil infiltration and necrosis in partial-thickness scald burns in mice. <i>Journal of Burn Care and Research</i> , <b>2014</b> , 35, 54-61	0.8	12
38	Treatment of heterotopic ossification through remote ATP hydrolysis. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 255ra132	17.5	95
37	A dynamic and complex monochloramine stress response in Escherichia coli revealed by transcriptome analysis. <i>Water Research</i> , <b>2013</b> , 47, 4978-85	12.5	21
36	Antimicrobial peptide response to group B Streptococcus in human extraplacental membranes in culture. <i>Placenta</i> , <b>2013</b> , 34, 480-5	3.4	31
35	Immobilization of Rhodococcus rhodochrous BX2 (an acetonitrile-degrading bacterium) with biofilm-forming bacteria for wastewater treatment. <i>Bioresource Technology</i> , <b>2013</b> , 131, 390-6	11	60
34	Emergence of a novel extended-spectrum-lactamase (ESBL)-producing, fluoroquinolone-resistant clone of extraintestinal pathogenic Escherichia coli in Kumasi, Ghana. <i>Journal of Clinical Microbiology</i> , <b>2013</b> , 51, 728-30	9.7	23
33	Electromodulated Release of Nitric Oxide Through Polymer Material from Reservoir of Inorganic Nitrite Salt. <i>RSC Advances</i> , <b>2012</b> , 2, 6765-6767	3.7	14

32	Bacterial community structure in the drinking water microbiome is governed by filtration processes. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 8851-9	10.3	297
31	Early development of bacterial community diversity in emergently placed urinary catheters. <i>BMC Research Notes</i> , <b>2012</b> , 5, 332	2.3	8
30	Biofilms on environmental surfaces: evaluation of the disinfection efficacy of a novel steam vapor system. <i>American Journal of Infection Control</i> , <b>2012</b> , 40, 926-30	3.8	25
29	Diazoniumdiolate-doped poly(lactic-co-glycolic acid)-based nitric oxide releasing films as antibiofilm coatings. <i>Biomaterials</i> , <b>2012</b> , 33, 7933-44	15.6	59
28	Carboxyl-ebesen-based layer-by-layer films as potential antithrombotic and antimicrobial coatings. <i>Biomaterials</i> , <b>2011</b> , 32, 7774-84	15.6	61
27	Separation of the bacterial species, <i>Escherichia coli</i> , from mixed-species microbial communities for transcriptome analysis. <i>BMC Microbiology</i> , <b>2011</b> , 11, 59	4.5	10
26	Immobilization of amphiphilic polycations by catechol functionality for antimicrobial coatings. <i>Langmuir</i> , <b>2011</b> , 27, 4010-9	4	81
25	dATP/ATP, a multifunctional nucleotide, stimulates bacterial cell lysis, extracellular DNA release and biofilm development. <i>PLoS ONE</i> , <b>2010</b> , 5, e13355	3.7	29
24	<i>Mycobacterium avium</i> infections of <i>Acanthamoeba</i> strains: host strain variability, grazing-acquired infections, and altered dynamics of inactivation with monochloramine. <i>Applied and Environmental Microbiology</i> , <b>2010</b> , 76, 6685-8	4.8	28
23	Enzymatic method for extracting extracellular DNA in biofilm matrix. <i>Cold Spring Harbor Protocols</i> , <b>2010</b> , 2010, pdb.prot5456	1.2	7
22	Comparative transcriptomics of the response of <i>Escherichia coli</i> to the disinfectant monochloramine and to growth conditions inducing monochloramine resistance. <i>Water Research</i> , <b>2010</b> , 44, 4924-31	12.5	18
21	Bayesian network expansion identifies new ROS and biofilm regulators. <i>PLoS ONE</i> , <b>2010</b> , 5, e9513	3.7	17
20	Evaluation of different methods for extracting extracellular DNA from the biofilm matrix. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 5390-5	4.8	106
19	Eradication of bacteria in suspension and biofilms using methylene blue-loaded dynamic nanoplateforms. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2009</b> , 53, 3042-8	5.9	49
18	Wastewater treatment contributes to selective increase of antibiotic resistance among <i>Acinetobacter</i> spp. <i>Science of the Total Environment</i> , <b>2009</b> , 407, 3702-6	10.2	233
17	Effect of growth conditions on inactivation of <i>Escherichia coli</i> with monochloramine. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 884-9	10.3	21
16	Prevalence of antibiotic resistance in drinking water treatment and distribution systems. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 5714-8	4.8	345
15	Microbial ecology of drinking water distribution systems. <i>Current Opinion in Biotechnology</i> , <b>2006</b> , 17, 297-302	11.4	323

14	High-resolution three-dimensional imaging of biofilm development using optical coherence tomography. <i>Journal of Biomedical Optics</i> , <b>2006</b> , 11, 34001	3.5	77
13	Evaluation of microfluidic biosensor development using microscopic analysis of molecular beacon hybridization kinetics. <i>Biomedical Microdevices</i> , <b>2005</b> , 7, 7-12	3.7	14
12	Regulatory role of <i>Rhizobium etli</i> CNPAF512 <i>fnrN</i> during symbiosis. <i>Applied and Environmental Microbiology</i> , <b>2004</b> , 70, 1287-96	4.8	15
11	Structural and functional imaging of 3D microfluidic mixers using optical coherence tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 7516-21	11.5	56
10	Use of DNA and peptide nucleic acid molecular beacons for detection and quantification of rRNA in solution and in whole cells. <i>Applied and Environmental Microbiology</i> , <b>2003</b> , 69, 5673-8	4.8	60
9	Use of molecular beacons for the detection of bacteria in microfluidic devices <b>2003</b> , 4982, 170		
8	The functions of Ca(2+) in bacteria: a role for EF-hand proteins?. <i>Trends in Microbiology</i> , <b>2002</b> , 10, 87-93	12.4	153
7	Use of Dual Marker Transposons to Identify New Symbiosis Genes in <i>Rhizobium</i> . <i>Microbial Ecology</i> , <b>2001</b> , 41, 325-332	4.4	17
6	Processing and export of peptide pheromones and bacteriocins in Gram-negative bacteria. <i>Trends in Microbiology</i> , <b>2001</b> , 9, 164-8	12.4	85
5	Symbiosis-specific expression of <i>Rhizobium etli</i> <i>casA</i> encoding a secreted calmodulin-related protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2000</b> , 97, 11114-9	11.5	43
4	Bi-functional <i>gfp</i> - and <i>gusA</i> -containing mini-Tn5 transposon derivatives for combined gene expression and bacterial localization studies. <i>Journal of Microbiological Methods</i> , <b>1999</b> , 35, 85-92	2.8	91
3	<i>Phaseolus vulgaris</i> is a non-selective host for nodulation. <i>FEMS Microbiology Ecology</i> , <b>1998</b> , 26, 193-205	4.3	104
2	<i>Phaseolus vulgaris</i> is a non-selective host for nodulation		5
1	Interactions between Environmental Microbial Ecosystems and Humans: the Case of the Water Environment and Antibiotic Resistance81-92		