

Chuanwu Xi

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.

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	Prevalence of antibiotic resistance in drinking water treatment and distribution systems. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 5714-8	4.8	345
102	Microbial ecology of drinking water distribution systems. <i>Current Opinion in Biotechnology</i> , 2006 , 17, 297-302	11.4	323
101	Bacterial community structure in the drinking water microbiome is governed by filtration processes. <i>Environmental Science & Technology</i> , 2012 , 46, 8851-9	10.3	297
100	Wastewater treatment contributes to selective increase of antibiotic resistance among <i>Acinetobacter</i> spp. <i>Science of the Total Environment</i> , 2009 , 407, 3702-6	10.2	233
99	The functions of Ca(2+) in bacteria: a role for EF-hand proteins?. <i>Trends in Microbiology</i> , 2002 , 10, 87-93	12.4	153
98	Differential resistance of drinking water bacterial populations to monochloramine disinfection. <i>Environmental Science & Technology</i> , 2014 , 48, 4038-47	10.3	112
97	Evaluation of different methods for extracting extracellular DNA from the biofilm matrix. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 5390-5	4.8	106
96	<i>Phaseolus vulgaris</i> is a non-selective host for nodulation. <i>FEMS Microbiology Ecology</i> , 1998 , 26, 193-205	4.3	104
95	Treatment of heterotopic ossification through remote ATP hydrolysis. <i>Science Translational Medicine</i> , 2014 , 6, 255ra132	17.5	95
94	Bi-functional gfp- and gusA-containing mini-Tn5 transposon derivatives for combined gene expression and bacterial localization studies. <i>Journal of Microbiological Methods</i> , 1999 , 35, 85-92	2.8	91
93	Processing and export of peptide pheromones and bacteriocins in Gram-negative bacteria. <i>Trends in Microbiology</i> , 2001 , 9, 164-8	12.4	85
92	Perinatal Lead Exposure Alters Gut Microbiota Composition and Results in Sex-specific Bodyweight Increases in Adult Mice. <i>Toxicological Sciences</i> , 2016 , 151, 324-33	4.4	81
91	Immobilization of amphiphilic polycations by catechol functionality for antimicrobial coatings. <i>Langmuir</i> , 2011 , 27, 4010-9	4	81
90	High-resolution three-dimensional imaging of biofilm development using optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2006 , 11, 34001	3.5	77
89	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> , 2016 , 100, 4219-29	5.7	75
88	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 & Interfaces</i> , 2015 , 7, 22218-27	9.5	70
87	-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> , 2015 , 1, 416-424	5.5	62

86	Optimized polymeric film-based nitric oxide delivery inhibits bacterial growth in a mouse burn wound model. <i>Acta Biomaterialia</i> , 2014 , 10, 4136-42	10.8	62
85	Mini-review: Microbial coaggregation: ubiquity and implications for biofilm development. <i>Biofouling</i> , 2014 , 30, 1235-51	3.3	62
84	Carboxyl-ebesen-based layer-by-layer films as potential antithrombotic and antimicrobial coatings. <i>Biomaterials</i> , 2011 , 32, 7774-84	15.6	61
83	Immobilization of <i>Rhodococcus rhodochrous</i> BX2 (an acetonitrile-degrading bacterium) with biofilm-forming bacteria for wastewater treatment. <i>Bioresource Technology</i> , 2013 , 131, 390-6	11	60
82	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> , 2003 , 69, 5673-8	4.8	60
81	Diazoniumdiolate-doped poly(lactic-co-glycolic acid)-based nitric oxide releasing films as antibiofilm coatings. <i>Biomaterials</i> , 2012 , 33, 7933-44	15.6	59
80	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> , 2016 , 44, e65-71	3.8	58
79	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> , 2004 , 101, 7516-21	11.5	56
78	Discovery of cahuitamycins as biofilm inhibitors derived from a convergent biosynthetic pathway. <i>Nature Communications</i> , 2016 , 7, 10710	17.4	50
77	Eradication of bacteria in suspension and biofilms using methylene blue-loaded dynamic nanoplatforms. <i>Antimicrobial Agents and Chemotherapy</i> , 2009 , 53, 3042-8	5.9	49
76	Effects of Peptide Immobilization Sites on the Structure and Activity of Surface-Tethered Antimicrobial Peptides. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 7146-7155	3.8	48
75	Different interfacial behaviors of peptides chemically immobilized on surfaces with different linker lengths and via different termini. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 2904-12	3.4	43
74	Symbiosis-specific expression of <i>Rhizobium etli</i> casA encoding a secreted calmodulin-related protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 11114-9	11.5	43
73	Electrochemically modulated nitric oxide (NO) releasing biomedical devices via copper(II)-Tri(2-pyridylmethyl)amine mediated reduction of nitrite. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3779-83	9.5	42
72	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> , 2017 , 3, 349-359	5.5	41
71	Sex dependent effects of silver nanoparticles on the zebrafish gut microbiota. <i>Environmental Science: Nano</i> , 2018 , 5, 740-751	7.1	41
70	Thromboresistant/anti-biofilm catheters via electrochemically modulated nitric oxide release. <i>Bioelectrochemistry</i> , 2015 , 104, 10-6	5.6	41
69	Small Antimicrobial Agents Based on Acylated Reduced Amide Scaffold. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 7877-87	8.3	38

68	The distribution variance of airborne microorganisms in urban and rural environments. <i>Environmental Pollution</i> , 2019 , 247, 898-906	9.3	36
67	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> , 2016 , 7, 1260	5.7	34
66	Evaluation of the ability of <i>Acinetobacter baumannii</i> to form biofilms on six different biomedical relevant surfaces. <i>Letters in Applied Microbiology</i> , 2016 , 63, 233-9	2.9	33
65	Glycine-based treatment ameliorates NAFLD by modulating fatty acid oxidation, glutathione synthesis, and the gut microbiome. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	32
64	Antimicrobial peptide response to group B <i>Streptococcus</i> in human extraplacental membranes in culture. <i>Placenta</i> , 2013 , 34, 480-5	3.4	31
63	Improved Hemocompatibility of Multilumen Catheters via Nitric Oxide (NO) Release From S-Nitroso-N-acetylpenicillamine (SNAP) Composite Filled Lumen. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29270-29279	9.5	30
62	dATP/ATP, a multifunctional nucleotide, stimulates bacterial cell lysis, extracellular DNA release and biofilm development. <i>PLoS ONE</i> , 2010 , 5, e13355	3.7	29
61	<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> , 2010 , 76, 6685-8	4.8	28
60	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> , 2015 , 43, 928-34	3.8	26
59	Biofilms on environmental surfaces: evaluation of the disinfection efficacy of a novel steam vapor system. <i>American Journal of Infection Control</i> , 2012 , 40, 926-30	3.8	25
58	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> , 2017 , 7, 380	5.9	24
57	Emergence of a novel extended-spectrum- β -lactamase (ESBL)-producing, fluoroquinolone-resistant clone of extraintestinal pathogenic <i>Escherichia coli</i> in Kumasi, Ghana. <i>Journal of Clinical Microbiology</i> , 2013 , 51, 728-30	9.7	23
56	Modeling the Emergence of Antibiotic Resistance in the Environment: an Analytical Solution for the Minimum Selection Concentration. <i>Antimicrobial Agents and Chemotherapy</i> , 2018 , 62,	5.9	21
55	A dynamic and complex monochloramine stress response in <i>Escherichia coli</i> revealed by transcriptome analysis. <i>Water Research</i> , 2013 , 47, 4978-85	12.5	21
54	Effect of growth conditions on inactivation of <i>Escherichia coli</i> with monochloramine. <i>Environmental Science & Technology</i> , 2009 , 43, 884-9	10.3	21
53	Interfacial Behaviors of Antimicrobial Peptide Cecropin P1 Immobilized on Different Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 22542-22551	3.8	20
52	Antibiotic resistance among clinical isolates in Lima, Peru. <i>Infection and Drug Resistance</i> , 2017 , 10, 85-90	4.2	20
51	The preparation and characterization of nitric oxide releasing silicone rubber materials impregnated with -nitroso--dodecyl mercaptan. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 422-430	7.3	20

50	A novel strategy for acetonitrile wastewater treatment by using a recombinant bacterium with biofilm-forming and nitrile-degrading capability. <i>Chemosphere</i> , 2016 , 161, 224-232	8.4	19
49	Influence of Household Water Filters on Bacteria Growth and Trace Metals in Tap Water of Doha, Qatar. <i>Scientific Reports</i> , 2018 , 8, 8268	4.9	19
48	Comparative transcriptomics of the response of Escherichia coli to the disinfectant monochloramine and to growth conditions inducing monochloramine resistance. <i>Water Research</i> , 2010 , 44, 4924-31	12.5	18
47	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> , 2017 , 121, 23-33	10	17
46	Use of Dual Marker Transposons to Identify New Symbiosis Genes in Rhizobium. <i>Microbial Ecology</i> , 2001 , 41, 325-332	4.4	17
45	Bayesian network expansion identifies new ROS and biofilm regulators. <i>PLoS ONE</i> , 2010 , 5, e9513	3.7	17
44	Role of cytokine signaling in group B Streptococcus-stimulated expression of human beta defensin-2 in human extraplacental membranes. <i>American Journal of Reproductive Immunology</i> , 2015 , 73, 263-72	3.8	16
43	An assessment of drinking water contamination with Helicobacter pylori in Lima, Peru. <i>Helicobacter</i> , 2018 , 23, e12462	4.9	15
42	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> , 2014 , 2, 1172-1185	7.4	15
41	Regulatory role of Rhizobium etli CNPAF512 fnrN during symbiosis. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 1287-96	4.8	15
40	Nitric oxide-releasing semi-crystalline thermoplastic polymers: preparation, characterization and application to devise anti-inflammatory and bactericidal implants. <i>Biomaterials Science</i> , 2018 , 6, 3189-3204	7.4	15
39	Electromodulated Release of Nitric Oxide Through Polymer Material from Reservoir of Inorganic Nitrite Salt. <i>RSC Advances</i> , 2012 , 2, 6765-6767	3.7	14
38	Evaluation of microfluidic biosensor development using microscopic analysis of molecular beacon hybridization kinetics. <i>Biomedical Microdevices</i> , 2005 , 7, 7-12	3.7	14
37	Electrochemically Modulated Nitric Oxide Release From Flexible Silicone Rubber Patch: Antimicrobial Activity For Potential Wound Healing Applications. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1432-1435	5.5	13
36	Removal of from skin using a combination antibiofilm approach. <i>Npj Biofilms and Microbiomes</i> , 2018 , 4, 16	8.2	12
35	The trichloroethylene metabolite S-(1,2-dichlorovinyl)-l-cysteine but not trichloroacetate inhibits pathogen-stimulated TNF- α in human extraplacental membranes in vitro. <i>Reproductive Toxicology</i> , 2015 , 52, 1-6	3.4	12
34	Adenosine triphosphate hydrolysis reduces neutrophil infiltration and necrosis in partial-thickness scald burns in mice. <i>Journal of Burn Care and Research</i> , 2014 , 35, 54-61	0.8	12
33	Dominance of comammox Nitrospira in soil nitrification. <i>Science of the Total Environment</i> , 2021 , 780, 146558	10.2	12

32	Nitric oxide releasing two-part creams containing S-nitrosoglutathione and zinc oxide for potential topical antimicrobial applications. <i>Nitric Oxide - Biology and Chemistry</i> , 2019 , 90, 1-9	5	11
31	Comparison of Copper(II)-Ligand Complexes as Mediators for Preparing Electrochemically Modulated Nitric Oxide-Releasing Catheters. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25047-25055	8.5	11
30	Animal Model Reveals Potential Waterborne Transmission of Helicobacter pylori Infection. <i>Helicobacter</i> , 2015 , 20, 326-33	4.9	11
29	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> , 2018 , 6, 6142-6152	7.3	11
28	Reduced infectivity of waterborne viable but nonculturable Helicobacter pylori strain SS1 in mice. <i>Helicobacter</i> , 2017 , 22, e12391	4.9	10
27	Airborne microorganisms exacerbate the formation of atmospheric ammonium and sulfate. <i>Environmental Pollution</i> , 2020 , 263, 114293	9.3	10
26	Temporal discrepancy of airborne total bacteria and pathogenic bacteria between day and night. <i>Environmental Research</i> , 2020 , 186, 109540	7.9	10
25	Separation of the bacterial species, Escherichia coli, from mixed-species microbial communities for transcriptome analysis. <i>BMC Microbiology</i> , 2011 , 11, 59	4.5	10
24	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> , 2021 , 764, 142848	10.2	10
23	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> , 2017 , 123, 1614-1627	4.7	9
22	Ecological Success of the Nitrosopumilus and Nitrosospira Clusters in the Intertidal Zone. <i>Microbial Ecology</i> , 2019 , 78, 555-564	4.4	9
21	Asymmetric transfer efficiencies between fomites and fingers: Impact on model parameterization. <i>American Journal of Infection Control</i> , 2018 , 46, 620-626	3.8	9
20	A Defined and Flexible Pocket Explains Aryl Substrate Promiscuity of the Cahuitamycin Starter Unit-Activating Enzyme CahJ. <i>ChemBioChem</i> , 2018 , 19, 1595-1600	3.8	9
19	Survival of Helicobacter pylori in the wastewater treatment process and the receiving river in Michigan, USA. <i>Journal of Water and Health</i> , 2016 , 14, 692-8	2.2	9
18	Early development of bacterial community diversity in emergently placed urinary catheters. <i>BMC Research Notes</i> , 2012 , 5, 332	2.3	8
17	Comparison of Soil Organic Matter Transformation Processes in Different Alpine Ecosystems in the Qinghai-Tibet Plateau. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 33-45	3.7	8
16	Strategy for denitrifying anaerobic methane-oxidizing bacteria growing under the oxygen-present condition. <i>Science of the Total Environment</i> , 2020 , 742, 140476	10.2	7
15	Enzymatic method for extracting extracellular DNA in biofilm matrix. <i>Cold Spring Harbor Protocols</i> , 2010 , 2010, pdb.prot5456	1.2	7

14	Nitric oxide releasing poly(vinylidene fluoride-co-hexafluoropropylene) films using a fluorinated nitric oxide donor to greatly decrease chemical leaching. <i>Acta Biomaterialia</i> , 2019 , 90, 112-121	10.8	5
13	Phaseolus vulgaris is a non-selective host for nodulation		5
12	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> , 2016 , 23, 4086-94	5.1	4
11	Nitric Oxide-Releasing Insert for Disinfecting the Hub Region of Tunnel Dialysis Catheters. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44475-44484	9.5	4
10	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> , 2020 , 125, e2019JG005316	3.7	2
9	U.S.-China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. <i>Environmental Science & Technology</i> , 2021 , 55, 9622-9626	10.3	2
8	Apyrase Elicits Host Antimicrobial Responses and Resolves Infection in Burns. <i>Journal of Burn Care and Research</i> , 2016 , 37, e501-e507	0.8	2
7	The Activity of Small Urea- α Apeptides Toward Gram-Positive Bacteria. <i>ChemMedChem</i> , 2019 , 14, 1963-1967	3.7	1
6	Picking a bone with heterotopic ossification: translational progress current and future. <i>Annals of Translational Medicine</i> , 2015 , 3, 188	3.2	1
5	PM drives bacterial functions for carbon, nitrogen, and sulfur cycles in the atmosphere.. <i>Environmental Pollution</i> , 2021 , 295, 118715	9.3	1
4	Antimicrobial Resistance of in Gastric Biopsy Samples from Lima/Peru. <i>Microbial Drug Resistance</i> , 2021 , 27, 951-955	2.9	1
3	Delivering nitric oxide with poly(n-butyl methacrylate) films doped with S-nitroso-N-acetylpenicillamine. <i>Polymer</i> , 2021 , 228, 123943	3.9	1
2	Use of molecular beacons for the detection of bacteria in microfluidic devices 2003 , 4982, 170		
1	Interactions between Environmental Microbial Ecosystems and Humans: the Case of the Water Environment and Antibiotic Resistance81-92		