

# Charles W Knapp

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

5,369  
citations

87723

38  
h-index

85405

71  
g-index

92  
all docs

92  
docs citations

92  
times ranked

6174  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating acute toxicity in enriched nitrifying cultures: Lessons learned. <i>Journal of Microbiological Methods</i> , 2022, 192, 106377.	0.7	0
2	Towards a general model for predicting minimal metal concentrations co-selecting for antibiotic resistance plasmids. <i>Environmental Pollution</i> , 2021, 275, 116602.	3.7	22
3	Pharmaceuticals and personal care products (PPCPs) impact on enriched nitrifying cultures. <i>Environmental Science and Pollution Research</i> , 2021, 28, 60968-60980.	2.7	10
4	Electrochemical sensing of SARS-CoV-2 amplicons with PCB electrodes. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130169.	4.0	46
5	Climate Change: Any Dangers from Antimicrobial Resistant Bacteria?. , 2021, , 145-171.		0
6	Transcriptomic Profile and Probiotic Properties of <i>Lactiplantibacillus pentosus</i> Pre-adapted to Edible Oils. <i>Frontiers in Microbiology</i> , 2021, 12, 747043.	1.5	6
7	High Prevalence and Factors Associated With the Distribution of the Integron <i>int1</i> and <i>int2</i> Genes in Scottish Cattle Herds. <i>Frontiers in Veterinary Science</i> , 2021, 8, 755833.	0.9	2
8	The legacy of industrial pollution in estuarine sediments: spatial and temporal variability implications for ecosystem stress. <i>Environmental Geochemistry and Health</i> , 2020, 42, 1057-1068.	1.8	21
9	In silico mapping of microbial communities and stress responses in a porcine slaughterhouse and pork products through its production chain, and the efficacy of HLE disinfectant. <i>Food Research International</i> , 2020, 136, 109486.	2.9	8
10	Potential risks of antibiotic resistant bacteria and genes in bioremediation of petroleum hydrocarbon contaminated soils. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1110-1124.	1.7	27
11	Heavy Metal Toxicity in Armed Conflicts Potentiates AMR in <i>A. baumannii</i> by Selecting for Antibiotic and Heavy Metal Co-resistance Mechanisms. <i>Frontiers in Microbiology</i> , 2020, 11, 68.	1.5	79
12	Bridging the Gaps: Bole and Terra Sigillata as Artefacts, as Simples and as Antibacterial Clays. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 348.	0.8	6
13	The interweaving roles of mineral and microbiome in shaping the antibacterial activity of archaeological medicinal clays. <i>Journal of Ethnopharmacology</i> , 2020, 260, 112894.	2.0	3
14	Environmental impacts of decommissioning: Onshore versus offshore wind farms. <i>Environmental Impact Assessment Review</i> , 2020, 83, 106404.	4.4	26
15	War, antimicrobial resistance, and <i>Acinetobacter baumannii</i> (WAMRA). <i>International Journal of Infectious Diseases</i> , 2020, 101, 87-88.	1.5	1
16	New insights into the role of plasmids from probiotic <i>Lactobacillus pentosus</i> MP-10 in Aloreña table olive brine fermentation. <i>Scientific Reports</i> , 2019, 9, 10938.	1.6	13
17	Editorial: Horizontal Gene Transfer Mediated Bacterial Antibiotic Resistance. <i>Frontiers in Microbiology</i> , 2019, 10, 1933.	1.5	136
18	New insights into the molecular effects and probiotic properties of <i>Lactobacillus pentosus</i> pre-adapted to edible oils. <i>LWT - Food Science and Technology</i> , 2019, 109, 153-162.	2.5	10

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19	Rapid selection of antimicrobial-resistant bacteria in complex water systems by chlorine and pipe materials. <i>Environmental Chemistry Letters</i> , 2019, 17, 1367-1373.	8.3	20
20	Can the legacy of industrial pollution influence antimicrobial resistance in estuarine sediments?. <i>Environmental Chemistry Letters</i> , 2019, 17, 595-607.	8.3	59
21	Effect of Î²-glycosidase supplementation on vinasse saccharification and L-lactic acid fermentation. <i>BioResources</i> , 2019, 14, 1379-1389.	0.5	1
22	Seasonal dynamics of tetracycline resistance gene transport in the Sumas River agricultural watershed of British Columbia, Canada. <i>Science of the Total Environment</i> , 2018, 628-629, 490-498.	3.9	28
23	Proteomic analysis of <i>Lactobacillus pentosus</i> for the identification of potential markers involved in acid resistance and their influence on other probiotic features. <i>Food Microbiology</i> , 2018, 72, 31-38.	2.1	36
24	Greco-Roman mineral (litho)therapeutics and their relationship to their microbiome: The case of the red pigment miltois. <i>Journal of Archaeological Science: Reports</i> , 2018, 22, 179-192.	0.2	7
25	Deciphering Resistome and Virulome Diversity in a Porcine Slaughterhouse and Pork Products Through Its Production Chain. <i>Frontiers in Microbiology</i> , 2018, 9, 2099.	1.5	17
26	Efficacy of "a multidrug efflux-pump inhibitor" as a disinfectant against surface bacteria. <i>Environmental Research</i> , 2018, 165, 133-139.	3.7	9
27	Inputs, source apportionment, and transboundary transport of pesticides and other polar organic contaminants along the lower Red River, Manitoba, Canada. <i>Science of the Total Environment</i> , 2018, 635, 803-816.	3.9	36
28	Proteomic analysis of <i>Lactobacillus pentosus</i> for the identification of potential markers of adhesion and other probiotic features. <i>Food Research International</i> , 2018, 111, 58-66.	2.9	22
29	Guidance for Investigating Calcite Precipitation by Urea Hydrolysis for Geomaterials. <i>Journal of Testing and Evaluation</i> , 2018, 46, 1527-1538.	0.4	17
30	The use of minimum selectable concentrations (MSCs) for determining the selection of antimicrobial resistant bacteria. <i>Ecotoxicology</i> , 2017, 26, 283-292.	1.1	49
31	Relationship between antibiotic resistance genes and metals in residential soil samples from Western Australia. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2484-2494.	2.7	153
32	Insight into Potential Probiotic Markers Predicted in <i>Lactobacillus pentosus</i> MP-10 Genome Sequence. <i>Frontiers in Microbiology</i> , 2017, 8, 891.	1.5	47
33	In silico genomic insights into aspects of food safety and defense mechanisms of a potentially probiotic <i>Lactobacillus pentosus</i> MP-10 isolated from brines of naturally fermented Aloreña green table olives. <i>PLoS ONE</i> , 2017, 12, e0176801.	1.1	23
34	Antibiotic Resistance Profile of Microbes From Traditional Fermented Foods. , 2017, , 675-704.		10
35	A 21-year record of vertically migrating subepilimnetic populations of <i>Cryptomonas</i> spp.. <i>Inland Waters</i> , 2016, 6, 173-184.	1.1	7
36	Appearance of Î²-lactam Resistance Genes in Agricultural Soils and Clinical Isolates over the 20th Century. <i>Scientific Reports</i> , 2016, 6, 21550.	1.6	119

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37	The release of wastewater contaminants in the Arctic: A case study from Cambridge Bay, Nunavut, Canada. <i>Environmental Pollution</i> , 2016, 218, 542-550.	3.7	29
38	Biocide tolerance, phenotypic and molecular response of lactic acid bacteria isolated from naturally-fermented AloreÅ±a table to different physico-chemical stresses. <i>Food Microbiology</i> , 2016, 60, 1-12.	2.1	21
39	Antibiotic Resistant Bacteria Found in Municipal Drinking Water. <i>Environmental Processes</i> , 2016, 3, 541-552.	1.7	50
40	Application of microbially induced calcite precipitation in erosion mitigation and stabilisation of sandy soil foreshore slopes: A preliminary investigation. <i>Engineering Geology</i> , 2016, 201, 96-105.	2.9	191
41	Comparative proteomic analysis of a potentially probiotic <i>Lactobacillus pentosus</i> MP-10 for the identification of key proteins involved in antibiotic resistance and biocide tolerance. <i>International Journal of Food Microbiology</i> , 2016, 222, 8-15.	2.1	26
42	Relationship between antibiotic- and disinfectant-resistance profiles in bacteria harvested from tap water. <i>Chemosphere</i> , 2016, 152, 132-141.	4.2	120
43	Reducing nutrients, organic micropollutants, antibiotic resistance, and toxicity in rural wastewater effluent with subsurface filtration treatment technology. <i>Ecological Engineering</i> , 2015, 84, 375-385.	1.6	24
44	Impacts of thermal and smouldering remediation on plant growth and soil ecology. <i>Geoderma</i> , 2015, 243-244, 1-9.	2.3	55
45	Diversity, Distribution and Quantification of Antibiotic Resistance Genes in Goat and Lamb Slaughterhouse Surfaces and Meat Products. <i>PLoS ONE</i> , 2014, 9, e114252.	1.1	21
46	<i>Legionella</i> spp. in UK compostsâ€”a potential public health issue?. <i>Clinical Microbiology and Infection</i> , 2014, 20, O224-O229.	2.8	26
47	Frequency-dependent ultrasound-induced transformation in <i>E. coli</i> . <i>Biotechnology Letters</i> , 2014, 36, 2461-2465.	1.1	3
48	Macrophytes may not contribute significantly to removal of nutrients, pharmaceuticals, and antibiotic resistance in model surface constructed wetlands. <i>Science of the Total Environment</i> , 2014, 482-483, 294-304.	3.9	66
49	Discovery of Catalytic Phages by Biocatalytic Self-Assembly. <i>Journal of the American Chemical Society</i> , 2014, 136, 15893-15896.	6.6	53
50	Increased Waterborne <i>bla</i> <sub>NDM-1</sub> Resistance Gene Abundances Associated with Seasonal Human Pilgrimages to the Upper Ganges River. <i>Environmental Science &amp; Technology</i> , 2014, 48, 3014-3020.	4.6	133
51	Acute and chronic environmental effects of clandestine methamphetamine waste. <i>Science of the Total Environment</i> , 2014, 493, 781-788.	3.9	8
52	Effects of biochar and activated carbon amendment on maize growth and the uptake and measured availability of polycyclic aromatic hydrocarbons (PAHs) and potentially toxic elements (PTEs). <i>Environmental Pollution</i> , 2014, 193, 79-87.	3.7	101
53	Performance of a constructed wetland in Grand Marais, Manitoba, Canada: Removal of nutrients, pharmaceuticals, and antibiotic resistance genes from municipal wastewater. <i>Chemistry Central Journal</i> , 2013, 7, 54.	2.6	67
54	Antimicrobial properties of enzymatically triggered self-assembling aromatic peptide amphiphiles. <i>Biomaterials Science</i> , 2013, 1, 1138.	2.6	65

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55	Seasonal Variations in Antibiotic Resistance Gene Transport in the Almendares River, Havana, Cuba. <i>Frontiers in Microbiology</i> , 2012, 3, 396.	1.5	80
56	Conditional confined oscillatory dynamics of <i>Escherichia coli</i> strain K12-MG1655 in chemostat systems. <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 185-192.	1.7	4
57	Copper-Binding Properties and Structures of Methanobactins from <i>Methylosinus trichosporium</i> OB3b. <i>Inorganic Chemistry</i> , 2011, 50, 1378-1391.	1.9	76
58	Antibiotic Resistance Gene Abundances Associated with Waste Discharges to the Almendares River near Havana, Cuba. <i>Environmental Science &amp; Technology</i> , 2011, 45, 418-424.	4.6	264
59	Predicting antibiotic resistance, not just for quinolones. <i>Frontiers in Microbiology</i> , 2011, 2, 178.	1.5	2
60	Antibiotic Resistance Gene Abundances Correlate with Metal and Geochemical Conditions in Archived Scottish Soils. <i>PLoS ONE</i> , 2011, 6, e27300.	1.1	310
61	Differential fate of erythromycin and beta-lactam resistance genes from swine lagoon waste under different aquatic conditions. <i>Environmental Pollution</i> , 2010, 158, 1506-1512.	3.7	70
62	Correlations between in situ denitrification activity and nir-gene abundances in pristine and impacted prairie streams. <i>Environmental Pollution</i> , 2010, 158, 3225-3229.	3.7	72
63	Evidence of Increasing Antibiotic Resistance Gene Abundances in Archived Soils since 1940. <i>Environmental Science &amp; Technology</i> , 2010, 44, 580-587.	4.6	665
64	Spatial Heterogeneity of Denitrification Genes in a Highly Homogenous Urban Stream. <i>Environmental Science &amp; Technology</i> , 2009, 43, 4273-4279.	4.6	74
65	Accumulation of Tetracycline Resistance Genes in Aquatic Biofilms Due to Periodic Waste Loadings from Swine Lagoons. <i>Environmental Science &amp; Technology</i> , 2009, 43, 7643-7650.	4.6	46
66	A comparative assessment of molecular biological and direct microscopic techniques for assessing aquatic systems. <i>Environmental Monitoring and Assessment</i> , 2008, 145, 465-473.	1.3	0
67	Fate of Tetracycline Resistance Genes in Aquatic Systems: Migration from the Water Column to Peripheral Biofilms. <i>Environmental Science &amp; Technology</i> , 2008, 42, 5131-5136.	4.6	95
68	Indirect Evidence of Transposon-Mediated Selection of Antibiotic Resistance Genes in Aquatic Systems at Low-Level Oxytetracycline Exposures. <i>Environmental Science &amp; Technology</i> , 2008, 42, 5348-5353.	4.6	111
69	Methane monooxygenase gene expression mediated by methanobactin in the presence of mineral copper sources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12040-12045.	3.3	94
70	Experimental demonstration of chaotic instability in biological nitrification. <i>ISME Journal</i> , 2007, 1, 385-393.	4.4	247
71	Abundance of six tetracycline resistance genes in wastewater lagoons at cattle feedlots with different antibiotic use strategies. <i>Environmental Microbiology</i> , 2007, 9, 143-151.	1.8	297
72	Methanobactin-promoted dissolution of Cu-substituted borosilicate glass. <i>Geobiology</i> , 2007, 5, 251-263.	1.1	32

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73	Nitrite-oxidizing bacteria guild ecology associated with nitrification failure in a continuous-flow reactor. <i>FEMS Microbiology Ecology</i> , 2007, 62, 195-201.	1.3	50
74	Influence of isolation on the recovery of pond mesocosms from the application of an insecticide. I. Study design and planktonic community responses. <i>Environmental Toxicology and Chemistry</i> , 2007, 26, 1265-1279.	2.2	49
75	Field assessment of oxytetracycline exposure to the freshwater macrophytes <i>Egeria densa</i> Planch. and <i>Ceratophyllum demersum</i> L.. <i>Environmental Pollution</i> , 2006, 141, 434-442.	3.7	21
76	Effects of eutrophication on vitellogenin gene expression in male fathead minnows ( <i>Pimephales</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 559-566.	3.7	14
77	Disappearance of oxytetracycline resistance genes in aquatic systems. <i>FEMS Microbiology Letters</i> , 2006, 263, 176-182.	0.7	42
78	RESPONSES OF MOLECULAR INDICATORS OF EXPOSURE IN MESOCOSMS: COMMON CARP ( <i>CYPRINUS</i> ) Tj ETQq0 0 0 rgBT /Overlock 1 Chemistry, 2005, 24, 190.	2.2	34
79	Response of water column microbial communities to sudden exposure to deltamethrin in aquatic mesocosms. <i>FEMS Microbiology Ecology</i> , 2005, 54, 157-165.	1.3	21
80	Factors Affecting the Fate of Ciprofloxacin in Aquatic Field Systems. <i>Water, Air, and Soil Pollution</i> , 2005, 161, 383-398.	1.1	122
81	Fate and Effects of Enrofloxacin in Aquatic Systems under Different Light Conditions. <i>Environmental Science &amp; Technology</i> , 2005, 39, 9140-9146.	4.6	90
82	Quantification of Tetracycline Resistance Genes in Feedlot Lagoons by Real-Time PCR. <i>Applied and Environmental Microbiology</i> , 2004, 70, 7372-7377.	1.4	167
83	Development of alternate ssu-rRNA probing strategies for characterizing aquatic microbial communities. <i>Journal of Microbiological Methods</i> , 2004, 56, 323-330.	0.7	8
84	PHYSICAL AND CHEMICAL CONDITIONS SURROUNDING THE DIURNAL VERTICAL MIGRATION OF <i>CRYPTOMONAS</i> SPP. ( <i>CRYPTOPHYCEAE</i> ) IN A SEASONALLY STRATIFIED MIDWESTERN RESERVIOR (USA). <i>Journal of Phycology</i> , 2003, 39, 855-861.	1.0	17
85	Nutrient level, microbial activity, and alachlor transformation in aerobic aquatic systems. <i>Water Research</i> , 2003, 37, 4761-4769.	5.3	28
86	Influence of Autochthonous Dissolved Organic Carbon and Nutrient Limitation on Alachlor Biotransformation in Aerobic Aquatic Systems. <i>Environmental Science &amp; Technology</i> , 2003, 37, 4157-4162.	4.6	23
87	Industrial and agricultural wastes as a potential biofilter media for groundwater nitrate remediation. , 0, 172, 330-343.		2