Charles W Knapp

List of Publications by Year
in descending order

87	5,369	87723 38	85405 71
papers	citations	h-index	g-index

92	92	92	6174
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evidence of Increasing Antibiotic Resistance Gene Abundances in Archived Soils since 1940. Environmental Science & Technology, 2010, 44, 580-587.	4.6	665
2	Antibiotic Resistance Gene Abundances Correlate with Metal and Geochemical Conditions in Archived Scottish Soils. PLoS ONE, 2011, 6, e27300.	1.1	310
3	Abundance of six tetracycline resistance genes in wastewater lagoons at cattle feedlots with different antibiotic use strategies. Environmental Microbiology, 2007, 9, 143-151.	1.8	297
4	Antibiotic Resistance Gene Abundances Associated with Waste Discharges to the Almendares River near Havana, Cuba. Environmental Science & Technology, 2011, 45, 418-424.	4.6	264
5	Experimental demonstration of chaotic instability in biological nitrification. ISME Journal, 2007, 1, 385-393.	4.4	247
6	Application of microbially induced calcite precipitation in erosion mitigation and stabilisation of sandy soil foreshore slopes: A preliminary investigation. Engineering Geology, 2016, 201, 96-105.	2.9	191
7	Quantification of Tetracycline Resistance Genes in Feedlot Lagoons by Real-Time PCR. Applied and Environmental Microbiology, 2004, 70, 7372-7377.	1.4	167
8	Relationship between antibiotic resistance genes and metals in residential soil samples from Western Australia. Environmental Science and Pollution Research, 2017, 24, 2484-2494.	2.7	153
9	Editorial: Horizontal Gene Transfer Mediated Bacterial Antibiotic Resistance. Frontiers in Microbiology, 2019, 10, 1933.	1.5	136
10	Increased Waterborne bla_{NDM-1} Resistance Gene Abundances Associated with Seasonal Human Pilgrimages to the Upper Ganges River. Environmental Science & Technology, 2014, 48, 3014-3020.	4.6	133
11	Factors Affecting the Fate of Ciprofloxacin in Aquatic Field Systems. Water, Air, and Soil Pollution, 2005, 161, 383-398.	1.1	122
12	Relationship between antibiotic- and disinfectant-resistance profiles in bacteria harvested from tap water. Chemosphere, 2016, 152, 132-141.	4.2	120
13	Appearance of Î²-lactam Resistance Genes in Agricultural Soils and Clinical Isolates over the 20th Century. Scientific Reports, 2016, 6, 21550.	1.6	119
14	Indirect Evidence of Transposon-Mediated Selection of Antibiotic Resistance Genes in Aquatic Systems at Low-Level Oxytetracycline Exposures. Environmental Science & Technology, 2008, 42, 5348-5353.	4.6	111
15	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). Environmental Pollution, 2014, 193, 79-87.	3.7	101
16	Fate of Tetracycline Resistance Genes in Aquatic Systems: Migration from the Water Column to Peripheral Biofilms. Environmental Science & Technology, 2008, 42, 5131-5136.	4.6	95
17	Methane monooxygenase gene expression mediated by methanobactin in the presence of mineral copper sources. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12040-12045.	3.3	94
18	Fate and Effects of Enrofloxacin in Aquatic Systems under Different Light Conditions. Environmental Science & Technology, 2005, 39, 9140-9146.	4.6	90

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19	Seasonal Variations in Antibiotic Resistance Gene Transport in the Almendares River, Havana, Cuba. Frontiers in Microbiology, 2012, 3, 396.	1.5	80
20	Heavy Metal Toxicity in Armed Conflicts Potentiates AMR in A. baumannii by Selecting for Antibiotic and Heavy Metal Co-resistance Mechanisms. Frontiers in Microbiology, 2020, 11, 68.	1.5	79
21	Copper-Binding Properties and Structures of Methanobactins from Methylosinus trichosporium OB3b. Inorganic Chemistry, 2011, 50, 1378-1391.	1.9	76
22	Spatial Heterogeneity of Denitrification Genes in a Highly Homogenous Urban Stream. Environmental Science & Technology, 2009, 43, 4273-4279.	4.6	74
23	Correlations between in situ denitrification activity and nir-gene abundances in pristine and impacted prairie streams. Environmental Pollution, 2010, 158, 3225-3229.	3.7	72
24	Differential fate of erythromycin and beta-lactam resistance genes from swine lagoon waste under different aquatic conditions. Environmental Pollution, 2010, 158, 1506-1512.	3.7	70
25	Performance of a constructed wetland in Grand Marais, Manitoba, Canada: Removal of nutrients, pharmaceuticals, and antibiotic resistance genes from municipal wastewater. Chemistry Central Journal, 2013, 7, 54.	2.6	67
26	Macrophytes may not contribute significantly to removal of nutrients, pharmaceuticals, and antibiotic resistance in model surface constructed wetlands. Science of the Total Environment, 2014, 482-483, 294-304.	3.9	66
27	Antimicrobial properties of enzymatically triggered self-assembling aromatic peptide amphiphiles. Biomaterials Science, 2013, 1, 1138.	2.6	65
28	Can the legacy of industrial pollution influence antimicrobial resistance in estuarine sediments?. Environmental Chemistry Letters, 2019, 17, 595-607.	8.3	59
29	Impacts of thermal and smouldering remediation on plant growth and soil ecology. Geoderma, 2015, 243-244, 1-9.	2.3	55
30	Discovery of Catalytic Phages by Biocatalytic Self-Assembly. Journal of the American Chemical Society, 2014, 136, 15893-15896.	6.6	53
31	Nitrite-oxidizing bacteria guild ecology associated with nitrification failure in a continuous-flow reactor. FEMS Microbiology Ecology, 2007, 62, 195-201.	1.3	50
32	Antibiotic Resistant Bacteria Found in Municipal Drinking Water. Environmental Processes, 2016, 3, 541-552.	1.7	50
33	Influence of isolation on the recovery of pond mesocosms from the application of an insecticide. I. Study design and planktonic community responses. Environmental Toxicology and Chemistry, 2007, 26, 1265-1279.	2.2	49
34	The use of minimum selectable concentrations (MSCs) for determining the selection of antimicrobial resistant bacteria. Ecotoxicology, 2017, 26, 283-292.	1.1	49
35	Insight into Potential Probiotic Markers Predicted in Lactobacillus pentosus MP-10 Genome Sequence. Frontiers in Microbiology, 2017, 8, 891.	1.5	47
36	Accumulation of Tetracycline Resistance Genes in Aquatic Biofilms Due to Periodic Waste Loadings from Swine Lagoons. Environmental Science & Technology, 2009, 43, 7643-7650.	4.6	46

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37	Electrochemical sensing of SARS-CoV-2 amplicons with PCB electrodes. Sensors and Actuators B: Chemical, 2021, 343, 130169.	4.0	46
38	Disappearance of oxytetracycline resistance genes in aquatic systems. FEMS Microbiology Letters, 2006, 263, 176-182.	0.7	42
39	Proteomic analysis of Lactobacillus pentosus for the identification of potential markers involved in acid resistance and their influence on other probiotic features. Food Microbiology, 2018, 72, 31-38.	2.1	36
40	Inputs, source apportionment, and transboundary transport of pesticides and other polar organic contaminants along the lower Red River, Manitoba, Canada. Science of the Total Environment, 2018, 635, 803-816.	3.9	36
41	RESPONSES OF MOLECULAR INDICATORS OF EXPOSURE IN MESOCOSMS: COMMON CARP (CYPRINUS) Tj ETQq1 1 0.784314 rgBT /O Chemistry, 2005, 24, 190.	2.2	34
42	Methanobactin-promoted dissolution of Cu-substituted borosilicate glass. Geobiology, 2007, 5, 251-263.	1.1	32
43	The release of wastewater contaminants in the Arctic: A case study from Cambridge Bay, Nunavut, Canada. Environmental Pollution, 2016, 218, 542-550.	3.7	29
44	Nutrient level, microbial activity, and alachlor transformation in aerobic aquatic systems. Water Research, 2003, 37, 4761-4769.	5.3	28
45	Seasonal dynamics of tetracycline resistance gene transport in the Sumas River agricultural watershed of British Columbia, Canada. Science of the Total Environment, 2018, 628-629, 490-498.	3.9	28
46	Potential risks of antibiotic resistant bacteria and genes in bioremediation of petroleum hydrocarbon contaminated soils. Environmental Sciences: Processes and Impacts, 2020, 22, 1110-1124.	1.7	27
47	Legionella spp. in UK composts â€"a potential public health issue?. Clinical Microbiology and Infection, 2014, 20, O224-O229.	2.8	26
48	Comparative proteomic analysis of a potentially probiotic Lactobacillus pentosus MP-10 for the identification of key proteins involved in antibiotic resistance and biocide tolerance. International Journal of Food Microbiology, 2016, 222, 8-15.	2.1	26
49	Environmental impacts of decommissioning: Onshore versus offshore wind farms. Environmental Impact Assessment Review, 2020, 83, 106404.	4.4	26
50	Reducing nutrients, organic micropollutants, antibiotic resistance, and toxicity in rural wastewater effluent with subsurface filtration treatment technology. Ecological Engineering, 2015, 84, 375-385.	1.6	24
51	Influence of Autochthonous Dissolved Organic Carbon and Nutrient Limitation on Alachlor Biotransformation in Aerobic Aquatic Systems. Environmental Science & Technology, 2003, 37, 4157-4162.	4.6	23
52	In silico genomic insights into aspects of food safety and defense mechanisms of a potentially probiotic Lactobacillus pentosus MP-10 isolated from brines of naturally fermented AloreÃ±a green table olives. PLoS ONE, 2017, 12, e0176801.	1.1	23
53	Proteomic analysis of Lactobacillus pentosus for the identification of potential markers of adhesion and other probiotic features. Food Research International, 2018, 111, 58-66.	2.9	22
54	Towards a general model for predicting minimal metal concentrations co-selecting for antibiotic resistance plasmids. Environmental Pollution, 2021, 275, 116602.	3.7	22

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55	Response of water column microbial communities to sudden exposure to deltamethrin in aquatic mesocosms. FEMS Microbiology Ecology, 2005, 54, 157-165.	1.3	21
56	Field assessment of oxytetracycline exposure to the freshwater macrophytes Egeria densa Planch. and Ceratophyllum demersum L.. Environmental Pollution, 2006, 141, 434-442.	3.7	21
57	Diversity, Distribution and Quantification of Antibiotic Resistance Genes in Goat and Lamb Slaughterhouse Surfaces and Meat Products. PLoS ONE, 2014, 9, e114252.	1.1	21
58	Biocide tolerance, phenotypic and molecular response of lactic acid bacteria isolated from naturally-fermented AloreÃ±a table to different physico-chemical stresses. Food Microbiology, 2016, 60, 1-12.	2.1	21
59	The legacy of industrial pollution in estuarine sediments: spatial and temporal variability implications for ecosystem stress. Environmental Geochemistry and Health, 2020, 42, 1057-1068.	1.8	21
60	Rapid selection of antimicrobial-resistant bacteria in complex water systems by chlorine and pipe materials. Environmental Chemistry Letters, 2019, 17, 1367-1373.	8.3	20
61	PHYSICAL AND CHEMICAL CONDITIONS SURROUNDING THE DIURNAL VERTICAL MIGRATION OF CRYPTOMONAS SPP. (CRYPTOPHYCEAE) IN A SEASONALLY STRATIFIED MIDWESTERN RESERVIOR (USA). Journal of Phycology, 2003, 39, 855-861.	1.0	17
62	Deciphering Resistome and Virulome Diversity in a Porcine Slaughterhouse and Pork Products Through Its Production Chain. Frontiers in Microbiology, 2018, 9, 2099.	1.5	17
63	Guidance for Investigating Calcite Precipitation by Urea Hydrolysis for Geomaterials. Journal of Testing and Evaluation, 2018, 46, 1527-1538.	0.4	17
64	Effects of eutrophication on vitellogenin gene expression in male fathead minnows (Pimephales) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 559-566.	3.7	14
65	New insights into the role of plasmids from probiotic Lactobacillus pentosus MP-10 in AloreÃ±a table olive brine fermentation. Scientific Reports, 2019, 9, 10938.	1.6	13
66	New insights into the molecular effects and probiotic properties of Lactobacillus pentosus pre-adapted to edible oils. LWT - Food Science and Technology, 2019, 109, 153-162.	2.5	10
67	Pharmaceuticals and personal care productsâ€™ (PPCPs) impact on enriched nitrifying cultures. Environmental Science and Pollution Research, 2021, 28, 60968-60980.	2.7	10
68	Antibiotic Resistance Profile of Microbes From Traditional Fermented Foods. , 2017, , 675-704.		10
69	Efficacy of â€œHLEâ€â€”a multidrug efflux-pump inhibitorâ€”as a disinfectant against surface bacteria. Environmental Research, 2018, 165, 133-139.	3.7	9
70	Development of alternate ssu-rRNA probing strategies for characterizing aquatic microbial communities. Journal of Microbiological Methods, 2004, 56, 323-330.	0.7	8
71	Acute and chronic environmental effects of clandestine methamphetamine waste. Science of the Total Environment, 2014, 493, 781-788.	3.9	8
72	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. Food Research International, 2020, 136, 109486.	2.9	8

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73	A 21-year record of vertically migrating subepilimnetic populations of Cryptomonas spp.. Inland Waters, 2016, 6, 173-184.	1.1	7
74	Greco-Roman mineral (litho)therapeutics and their relationship to their microbiome: The case of the red pigment miltos. Journal of Archaeological Science: Reports, 2018, 22, 179-192.	0.2	7
75	Bridging the Gaps: Bole and Terra Sigillata as Artefacts, as Simples and as Antibacterial Clays. Minerals (Basel, Switzerland), 2020, 10, 348.	0.8	6
76	Transcriptomic Profile and Probiotic Properties of Lactiplantibacillus pentosus Pre-adapted to Edible Oils. Frontiers in Microbiology, 2021, 12, 747043.	1.5	6
77	Conditional confined oscillatory dynamics of Escherichia coli strain K12-MG1655 in chemostat systems. Applied Microbiology and Biotechnology, 2012, 94, 185-192.	1.7	4
78	Frequency-dependent ultrasound-induced transformation in E. coli. Biotechnology Letters, 2014, 36, 2461-2465.	1.1	3
79	The interweaving roles of mineral and microbiome in shaping the antibacterial activity of archaeological medicinal clays. Journal of Ethnopharmacology, 2020, 260, 112894.	2.0	3
80	Predicting antibiotic resistance, not just for quinolones. Frontiers in Microbiology, 2011, 2, 178.	1.5	2
81	Industrial and agricultural wastes as a potential biofilter media for groundwater nitrate remediation. , 0, 172, 330-343.		2
82	High Prevalence and Factors Associated With the Distribution of the Integron intI1 and intI2 Genes in Scottish Cattle Herds. Frontiers in Veterinary Science, 2021, 8, 755833.	0.9	2
83	War, antimicrobial resistance, and Acinetobacter baumannii (WAMRA). International Journal of Infectious Diseases, 2020, 101, 87-88.	1.5	1
84	Effect of Î²-glycosidase supplementation on vinasse saccharification and L-lactic acid fermentation. BioResources, 2019, 14, 1379-1389.	0.5	1
85	A comparative assessment of molecular biological and direct microscopic techniques for assessing aquatic systems. Environmental Monitoring and Assessment, 2008, 145, 465-473.	1.3	0
86	Climate Change: Any Dangers from Antimicrobial Resistant Bacteria?. , 2021, , 145-171.		0
87	Evaluating acute toxicity in enriched nitrifying cultures: Lessons learned. Journal of Microbiological Methods, 2022, 192, 106377.	0.7	0