

Darren R Korber

List of Publications by Year in descending order

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72
papers

2,603
citations

172457

29
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48
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all docs

73
docs citations

73
times ranked

3071
citing authors

#	ARTICLE	IF	CITATIONS
1	Next-Generation Sequencing of Microbial Communities in the Athabasca River and Its Tributaries in Relation to Oil Sands Mining Activities. <i>Applied and Environmental Microbiology</i> , 2012, 78, 7626-7637.	3.1	193
2	Behavior of <i>Pseudomonas fluorescens</i> within the hydrodynamic boundary layers of surface microenvironments. <i>Microbial Ecology</i> , 1987, 14, 1-14.	2.8	167
3	Effect of laminar flow velocity on the kinetics of surface recolonization by Mot ⁺ and Mot ⁺ <i>Pseudomonas fluorescens</i> . <i>Microbial Ecology</i> , 1989, 18, 1-19.	2.8	136
4	Probiotic-based strategies for therapeutic and prophylactic use against multiple gastrointestinal diseases. <i>Frontiers in Microbiology</i> , 2015, 6, 685.	3.5	133
5	Effect of Fermentation on the Protein Digestibility and Levels of Non-Nutritive Compounds of Pea Protein Concentrate. <i>Food Technology and Biotechnology</i> , 2018, 56, 257-264.	2.1	92
6	Adaptive Resistance and Differential Protein Expression of <i>Salmonella enterica</i> Serovar Enteritidis Biofilms Exposed to Benzalkonium Chloride. <i>Antimicrobial Agents and Chemotherapy</i> , 2006, 50, 3588-3596.	3.2	88
7	Effect of Motility on Surface Colonization and Reproductive Success of <i>Pseudomonas fluorescens</i> in Dual-Dilution Continuous Culture and Batch Culture Systems. <i>Applied and Environmental Microbiology</i> , 1994, 60, 1421-1429.	3.1	86
8	Quantitative mapping of chlorhexidine in natural river biofilms. <i>Science of the Total Environment</i> , 2006, 369, 369-383.	8.0	74
9	High pH during Trisodium Phosphate Treatment Causes Membrane Damage and Destruction of <i>Salmonella enterica</i> Serovar Enteritidis. <i>Applied and Environmental Microbiology</i> , 2003, 69, 122-129.	3.1	66
10	Pea protein-based capsules for probiotic and prebiotic delivery. <i>International Journal of Food Science and Technology</i> , 2011, 46, 2248-2256.	2.7	58
11	Effect of soil composition, temperature, indigenous microflora, and environmental conditions on the survival of <i>Escherichia coli</i> O157:H7. <i>Canadian Journal of Microbiology</i> , 2007, 53, 822-829.	1.7	56
12	Differential Adaptive Response and Survival of <i>Salmonella enterica</i> Serovar Enteritidis Planktonic and Biofilm Cells Exposed to Benzalkonium Chloride. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 3669-3680.	3.2	56
13	Molecular and microscopic assessment of the effects of caffeine, acetaminophen, diclofenac, and their mixtures on river biofilm communities. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 508-517.	4.3	56
14	Treatment of <i>Salmonella enterica</i> Serovar Enteritidis with a Sublethal Concentration of Trisodium Phosphate or Alkaline pH Induces Thermotolerance. <i>Applied and Environmental Microbiology</i> , 2004, 70, 4613-4620.	3.1	55
15	ZnO Nanoparticles Impose a Panmetabolic Toxic Effect Along with Strong Necrosis, Inducing Activation of the Envelope Stress Response in <i>Salmonella enterica</i> Serovar Enteritidis. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 3317-3328.	3.2	55
16	Metatranscriptomic Analysis of the Response of River Biofilms to Pharmaceutical Products, Using Anonymous DNA Microarrays. <i>Applied and Environmental Microbiology</i> , 2010, 76, 5432-5439.	3.1	50
17	Colonization and bioherbicidal activity on green foxtail by <i>Pseudomonas fluorescens</i> BRC100 in a pesta formulation. <i>Canadian Journal of Microbiology</i> , 2012, 58, 1-9.	1.7	50
18	Development of extrusion-based legume protein isolate-alginate capsules for the protection and delivery of the acid sensitive probiotic, <i>Bifidobacterium adolescentis</i> . <i>Food Research International</i> , 2013, 54, 730-737.	6.2	49

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19	Morphological and biochemical changes in <i>Pseudomonas fluorescens</i> biofilms induced by sub-inhibitory exposure to antimicrobial agents. <i>Canadian Journal of Microbiology</i> , 2009, 55, 163-178.	1.7	47
20	Prevalence of <i>Escherichia coli</i> O157 in Saskatchewan Cattle: Characterization of Isolates by Using Random Amplified Polymorphic DNA PCR, Antibiotic Resistance Profiles, and Pathogenicity Determinants. <i>Applied and Environmental Microbiology</i> , 2006, 72, 4347-4355.	3.1	40
21	Prolonged cold stress response of <i>Escherichia coli</i> O157 and the role of <i>rpoS</i> . <i>International Journal of Food Microbiology</i> , 2011, 146, 163-169.	4.7	40
22	Germ Theory Vs. Community Theory in Understanding and Controlling the Proliferation of Biofilms. <i>Advances in Dental Research</i> , 1997, 11, 4-13.	3.6	39
23	Effect of gravity on bacterial deposition and orientation in laminar flow environments. <i>Biofouling</i> , 1990, 2, 335-350.	2.2	38
24	Architectural adaptation and protein expression patterns of <i>Salmonella enterica</i> serovar Enteritidis biofilms under laminar flow conditions. <i>International Journal of Food Microbiology</i> , 2008, 123, 109-120.	4.7	37
25	Monitoring the fate of copper nanoparticles in river biofilms using scanning transmission X-ray microscopy (STXM). <i>Chemical Geology</i> , 2012, 329, 18-25.	3.3	37
26	Isolation and characterization of novel 1,3-propanediol-producing <i>Lactobacillus panis</i> PM1 from bioethanol thin stillage. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 417-428.	3.6	37
27	Antimicrobial Biodegradable Food Packaging Based on Chitosan and Metal/Metal-Oxide Bio-Nanocomposites: A Review. <i>Polymers</i> , 2021, 13, 2790.	4.5	37
28	Entrapment, survival and release of <i>Bifidobacterium adolescentis</i> within chickpea protein-based microcapsules. <i>Food Research International</i> , 2014, 55, 20-27.	6.2	36
29	Environmental Biofilms as Reservoirs for Antimicrobial Resistance. <i>Frontiers in Microbiology</i> , 2021, 12, 766242.	3.5	31
30	<i>Escherichia coli</i> O157: Insights into the adaptive stress physiology and the influence of stressors on epidemiology and ecology of this human pathogen. <i>Critical Reviews in Microbiology</i> , 2016, 42, 83-93.	6.1	30
31	Scientific Prospects for Cannabis-Microbiome Research to Ensure Quality and Safety of Products. <i>Microorganisms</i> , 2020, 8, 290.	3.6	30
32	Multilayer photonic films based on interlocked chiral-nematic cellulose nanocrystals in starch/chitosan. <i>Carbohydrate Polymers</i> , 2022, 275, 118709.	10.2	30
33	Evaluation of pea protein-polysaccharide matrices for encapsulation of acid-sensitive bacteria. <i>Food Research International</i> , 2015, 70, 118-124.	6.2	29
34	Contributions of citrate in redox potential maintenance and ATP production: metabolic pathways and their regulation in <i>Lactobacillus panis</i> PM1. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 8693-8703.	3.6	27
35	Effect of <i>Lactobacillus plantarum</i> Fermentation on the Surface and Functional Properties of Pea Protein-Enriched Flour. <i>Food Technology and Biotechnology</i> , 2018, 56, 411-420.	2.1	27
36	Effect of fermentation time on the nutritional properties of pea protein-enriched flour fermented by <i>Aspergillus oryzae</i> and <i>Aspergillus niger</i> . <i>Cereal Chemistry</i> , 2020, 97, 104-113.	2.2	27

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37	Aerobic Biofilms Grown from Athabasca Watershed Sediments Are Inhibited by Increasing Concentrations of Bituminous Compounds. <i>Applied and Environmental Microbiology</i> , 2013, 79, 7398-7412.	3.1	26
38	Measuring microbial metabolism in atypical environments: Bentonite in used nuclear fuel storage. <i>Journal of Microbiological Methods</i> , 2016, 120, 79-90.	1.6	26
39	Physicochemical properties of enzymatically modified pea protein-enriched flour treated by different enzymes to varying levels of hydrolysis. <i>Cereal Chemistry</i> , 2020, 97, 326-338.	2.2	26
40	Microbes at Surface-Air Interfaces: The Metabolic Harnessing of Relative Humidity, Surface Hygroscopicity, and Oligotrophy for Resilience. <i>Frontiers in Microbiology</i> , 2016, 7, 1563.	3.5	25
41	Bacterial diversity and production of sulfide in microcosms containing uncompacted bentonites. <i>Heliyon</i> , 2018, 4, e00722.	3.2	24
42	Regulation of Dual Glycolytic Pathways for Fructose Metabolism in Heterofermentative <i>Lactobacillus panis</i> PM1. <i>Applied and Environmental Microbiology</i> , 2013, 79, 7818-7826.	3.1	23
43	Survival of probiotics in pea protein-alginate microcapsules with or without chitosan coating during storage and in a simulated gastrointestinal environment. <i>Food Science and Biotechnology</i> , 2017, 26, 189-194.	2.6	23
44	Effect of fermentation time on the physicochemical and functional properties of pea protein-enriched flour fermented by <i>Aspergillus oryzae</i> and <i>Aspergillus niger</i> . <i>Cereal Chemistry</i> , 2020, 97, 416-428.	2.2	21
45	Metabolic Engineering of a Glycerol-Oxidative Pathway in <i>Lactobacillus panis</i> PM1 for Utilization of Bioethanol Thin Stillage: Potential To Produce Platform Chemicals from Glycerol. <i>Applied and Environmental Microbiology</i> , 2014, 80, 7631-7639.	3.1	20
46	Microscopic and Spectroscopic Analyses of Chlorhexidine Tolerance in <i>Delftia acidovorans</i> Biofilms. <i>Antimicrobial Agents and Chemotherapy</i> , 2014, 58, 5673-5686.	3.2	20
47	Encapsulation of <i>Bifidobacterium adolescentis</i> cells with legume proteins and survival under stimulated gastric conditions and during storage in commercial fruit juices. <i>Food Science and Biotechnology</i> , 2015, 24, 383-391.	2.6	20
48	Bioconversion of glycerol to 1,3-propanediol in thin stillage-based media by engineered <i>Lactobacillus panis</i> PM1. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 629-635.	3.0	19
49	Heat acclimation and the role of RpoS in prolonged heat shock of <i>Escherichia coli</i> O157. <i>Food Microbiology</i> , 2012, 30, 457-464.	4.2	18
50	Effect of glycerol on the physicochemical properties of films based on legume protein concentrates: A comparative study. <i>Journal of Texture Studies</i> , 2019, 50, 539-546.	2.5	17
51	Culturability and diversity of microorganisms recovered from an eight-year old highly-compacted, saturated MX-80 Wyoming bentonite plug. <i>Applied Clay Science</i> , 2016, 126, 245-250.	5.2	16
52	[1] Reporter systems for microscopic analysis of microbial biofilms. <i>Methods in Enzymology</i> , 1999, 310, 3-20.	1.0	14
53	Bacterial diversity and composition of an alkaline uranium mine tailings-water interface. <i>Journal of Microbiology</i> , 2013, 51, 558-569.	2.8	14
54	Molecular and Antimicrobial Susceptibility Analyses Distinguish Clinical from Bovine <i>Escherichia coli</i> O157 Strains. <i>Journal of Clinical Microbiology</i> , 2013, 51, 2082-2088.	3.9	13

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55	Nutritional properties of pea protein-enriched flour treated with different proteases to varying degrees of hydrolysis. <i>Cereal Chemistry</i> , 2020, 97, 429-440.	2.2	12
56	Importance of the RpoE Regulon in Maintaining the Lipid Bilayer during Antimicrobial Treatment with the Polycationic Agent, Chlorhexidine. <i>Proteomics</i> , 2018, 18, 1700285.	2.2	10
57	Production of glycerol by <i>Lactobacillus plantarum</i> NRRL B-4496 and formation of hexamine during fermentation of pea protein enriched flour. <i>Journal of Biotechnology</i> , 2020, 323, 331-340.	3.8	9
58	Adaptation of bacterial communities to environmental transitions from labile to refractory substrates. <i>International Microbiology</i> , 2001, 4, 73-80.	2.4	8
59	A health metadata-based management approach for comparative analysis of high-throughput genetic sequences for quantifying antimicrobial resistance reduction in Canadian hog barns. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 2629-2638.	4.1	8
60	Metatranscriptomic Insights Into the Response of River Biofilm Communities to Ionic and Nano-Zinc Oxide Exposures. <i>Frontiers in Microbiology</i> , 2020, 11, 267.	3.5	8
61	Sensitivity of two techniques to detect <i>Escherichia coli</i> O157 in naturally infected bovine fecal samples. <i>Food Microbiology</i> , 2007, 24, 633-639.	4.2	7
62	<i>N,N</i> -Diethyl- ϵ -Toluamide Exposure at an Environmentally Relevant Concentration Influences River Microbial Community Development. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 2414-2425.	4.3	7
63	Pea-protein alginate encapsulation adversely affects development of clinical signs of <i>Citrobacter rodentium</i> -induced colitis in mice treated with probiotics. <i>Canadian Journal of Microbiology</i> , 2018, 64, 744-760.	1.7	5
64	Transcriptomics reveal core activities of the plant growth-promoting bacterium <i>Delftia acidovorans</i> RAY209 during interaction with canola and soybean roots. <i>Microbial Genomics</i> , 2020, 6, .	2.0	5
65	Biogeochemical Importance of the Bacterial Community in Uranium Waste Deposited at Key Lake, Northern Saskatchewan. <i>Geomicrobiology Journal</i> , 2016, 33, 807-821.	2.0	4
66	Piglet Gut and in-Barn Manure from Farms on a Raised without Antibiotics Program Display Reduced Antimicrobial Resistance but an Increased Prevalence of Pathogens. <i>Antibiotics</i> , 2021, 10, 1152.	3.7	4
67	Prediction of bacterial functional diversity in clay microcosms. <i>Heliyon</i> , 2021, 7, e08131.	3.2	4
68	Cells in shearable and nonshearable regions of <i>Salmonella enterica</i> serovar Enteritidis biofilms are morphologically and physiologically distinct. <i>Canadian Journal of Microbiology</i> , 2009, 55, 955-966.	1.7	3
69	Huddling together to survive: Population density as a survival strategy of non-spore forming bacteria under nutrient starvation and desiccation at solid-air interfaces. <i>Microbiological Research</i> , 2022, 258, 126997.	5.3	2
70	Impact of sample collection on prokaryotic and eukaryotic diversity of niche environments of the oil-sand mining impacted Athabasca River.. <i>Canadian Journal of Microbiology</i> , 2021, 67, 813-826.	1.7	1
71	Effect of <i>Lactobacillus plantarum</i> Fermentation on the Surface and Functional Properties of Pea Protein-Enriched Flour. <i>Food Technology and Biotechnology</i> , 2018, 56, .	2.1	1
72	Draft Genome Sequence of <i>Polaromonas eurypsychrophila</i> AER18D-145, Isolated from a Uranium Tailings Management Facility in Northern Saskatchewan, Canada. <i>Microbiology Resource Announcements</i> , 2022, 11, e0001322.	0.6	1