

Robin Anderson

List of Publications by Year in descending order

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107
papers

2,646
citations

172457

29
h-index

206112

48
g-index

109
all docs

109
docs citations

109
times ranked

2260
citing authors

#	ARTICLE	IF	CITATIONS
1	Foodborne Campylobacter: Infections, Metabolism, Pathogenesis and Reservoirs. International Journal of Environmental Research and Public Health, 2013, 10, 6292-6304.	2.6	199
2	Effect of Lactic Acid Administration in the Drinking Water During Preslaughter Feed Withdrawal on Salmonella and Campylobacter Contamination of Broilers. Poultry Science, 2001, 80, 278-283.	3.4	180
3	Incidence and ecology of Campylobacter jejuni and coli in animals. Anaerobe, 2009, 15, 18-25.	2.1	168
4	Effects of dietary tannin source on performance, feed efficiency, ruminal fermentation, and carcass and non-carcass traits in steers fed a high-grain diet. Animal Feed Science and Technology, 2010, 159, 1-9.	2.2	103
5	Bactericidal Effect of Sodium Chlorate on Escherichia coli O157:H7 and Salmonella Typhimurium DT104 in Rumen Contents In Vitro. Journal of Food Protection, 2000, 63, 1038-1042.	1.7	94
6	Insights on Alterations to the Rumen Ecosystem by Nitrate and Nitrocompounds. Frontiers in Microbiology, 2016, 7, 228.	3.5	80
7	Fecal Prevalence and Diversity of Salmonella Species in Lactating Dairy Cattle in Four States. Journal of Dairy Science, 2005, 88, 3603-3608.	3.4	72
8	Effects of the methane-inhibitors nitrate, nitroethane, lauric acid, Lauricidin® and the Hawaiian marine algae Chaetoceros on ruminal fermentation in vitro†. Bioresource Technology, 2009, 100, 4017-4025.	9.6	72
9	Toxicity and Metabolism of the Conjugates of 3-Nitropropanol and 3-Nitropropionic Acid in Forages Poisonous to Livestock. Journal of Agricultural and Food Chemistry, 2005, 53, 2344-2350.	5.2	59
10	Effect of select nitrocompounds on ruminal fermentation; an initial look at their potential to reduce economic and environmental costs associated with ruminal methanogenesis. Bioresource Technology, 2003, 90, 59-63.	9.6	58
11	Evaluation of feeding glycerol on free-fatty acid production and fermentation kinetics of mixed ruminal microbes in vitro. Bioresource Technology, 2010, 101, 8469-8472.	9.6	56
12	Achromobacter denitrificans strain SP1 efficiently remediates di(2-ethylhexyl)phthalate. Ecotoxicology and Environmental Safety, 2015, 112, 114-121.	6.0	53
13	Effects of the antibiotic ionophores monensin, lasalocid, laidlomycin propionate and bambarmycin on Salmonella and E. coli O157:H7 in vitro*†. Journal of Applied Microbiology, 2003, 94, 207-213.	3.1	51
14	Effect of oral nitroethane and 2-nitropropanol administration on methane-producing activity and volatile fatty acid production in the ovine rumen. Bioresource Technology, 2006, 97, 2421-2426.	9.6	49
15	Effects of nitrocompounds and feedstuffs on in vitro methane production in chicken cecal contents and rumen fluid. Anaerobe, 2006, 12, 85-92.	2.1	48
16	Detection of methane and quantification of methanogenic archaea in faeces from young broiler chickens using real-time PCR. Letters in Applied Microbiology, 2007, 45, 629-634.	2.2	48
17	Reduction of E. coli O157:H7 populations in sheep by supplementation of an experimental sodium chlorate product. Small Ruminant Research, 2003, 49, 173-181.	1.2	46
18	Use of a novel nitrotoxin-metabolizing bacterium to reduce ruminal methane production. Bioresource Technology, 1998, 64, 89-95.	9.6	43

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19	Zoonotic bacterial populations, gut fermentation characteristics and methane production in feedlot steers during oral nitroethane treatment and after the feeding of an experimental chlorate product. <i>Anaerobe</i> , 2007, 13, 21-31.	2.1	43
20	Characterization of antibiotic and disinfectant susceptibility profiles among <i>Pseudomonas aeruginosa</i> veterinary isolates recovered during 1994-2003. <i>Journal of Applied Microbiology</i> , 2015, 118, 326-342.	3.1	42
21	Effects of experimental chlorate preparations as feed and water supplements on <i>Escherichia coli</i> colonization and contamination of beef cattle and carcasses. <i>Food Microbiology</i> , 2005, 22, 439-447.	4.2	41
22	Effects of select nitrocompounds on in vitro ruminal fermentation during conditions of limiting or excess added reductant. <i>Bioresource Technology</i> , 2008, 99, 8655-8661.	9.6	40
23	Effect of nitroethane, dimethyl-2-nitroglutarate and 2-nitro-methyl-propionate on ruminal methane production and hydrogen balance in vitro. <i>Bioresource Technology</i> , 2010, 101, 5345-5349.	9.6	38
24	Characterization of <i>Salmonella enterica</i> Isolates from Turkeys in Commercial Processing Plants for Resistance to Antibiotics, Disinfectants, and a Growth Promoter. <i>Foodborne Pathogens and Disease</i> , 2011, 8, 593-600.	1.8	37
25	Antibiotic and Disinfectant Susceptibility Profiles of Vancomycin-Resistant <i>Enterococcus faecium</i> (VRE) Isolated from Community Wastewater in Texas. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2008, 80, 188-194.	2.7	34
26	Inhibitory activity of 2-nitropropanol against select food-borne pathogens in vitro*. <i>Letters in Applied Microbiology</i> , 2004, 39, 471-476.	2.2	33
27	Bactericidal effect of hydrolysable and condensed tannin extracts on <i>Campylobacter jejuni</i> in vitro. <i>Folia Microbiologica</i> , 2012, 57, 253-258.	2.3	33
28	Novel preharvest strategies involving the use of experimental chlorate preparations and nitro-based compounds to prevent colonization of food-producing animals by foodborne pathogens. <i>Poultry Science</i> , 2005, 84, 649-654.	3.4	32
29	<i>Escherichia coli</i> O157:H7 becomes resistant to sodium chlorate in pure culture, but not in mixed culture or in vivo. <i>Journal of Applied Microbiology</i> , 2001, 91, 427-434.	3.1	31
30	Toxicity and Metabolism of Nitroalkanes and Substituted Nitroalkanes. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 763-779.	5.2	31
31	Effect of Drinking-Water Administration of Experimental Chlorate Ion Preparations on <i>Salmonella enterica</i> serovar Typhimurium Colonization in Weaned and Finished Pigs. <i>Veterinary Research Communications</i> , 2004, 28, 179-189.	1.6	28
32	Effects of Short-Chain Nitrocompounds against <i>Campylobacter jejuni</i> and <i>Campylobacter coli</i> in vitro. <i>Journal of Food Science</i> , 2007, 72, M50-M55.	3.1	28
33	Disinfectant and Antibiotic Susceptibility Profiles of <i>Escherichia coli</i> O157:H7 Strains from Cattle Carcasses, Feces, and Hides and Ground Beef from the United States. <i>Journal of Food Protection</i> , 2013, 76, 6-17.	1.7	27
34	Bactericidal Effect of Sodium Chlorate on <i>Escherichia coli</i> Concentrations in Bovine Ruminal and Fecal Contents In Vivo. <i>Microbial Ecology in Health and Disease</i> , 2002, 14, 24-29.	3.5	26
35	Effects of oral nitroethane administration on enteric methane emissions and ruminal fermentation in cattle. <i>Animal Feed Science and Technology</i> , 2011, 166-167, 275-281.	2.2	26
36	Effects of Nitrate or Nitro Supplementation, with or without Added Chlorate, on <i>Salmonella enterica</i> Serovar Typhimurium and <i>Escherichia coli</i> in Swine Feces. <i>Journal of Food Protection</i> , 2007, 70, 308-315.	1.7	25

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37	Glycerol inhibition of ruminal lipolysis in vitro. <i>Journal of Dairy Science</i> , 2012, 95, 5176-5181.	3.4	25
38	In Vitro Inhibition of <i>Salmonella enterica</i> Serovars Choleraesuis and Typhimurium, <i>Escherichia coli</i> F-18, and <i>Escherichia coli</i> O157:H7 by a Porcine Continuous-Flow Competitive Exclusion Culture. <i>Current Microbiology</i> , 2002, 45, 226-229.	2.2	24
39	Effects of thymol and diphenyliodonium chloride against <i>Campylobacter</i> spp. during pure and mixed culture in vitro. <i>Journal of Applied Microbiology</i> , 2009, 107, 1258-1268.	3.1	24
40	Characteristics of a nitropropanol-metabolizing bacterium isolated from the rumen. <i>Canadian Journal of Microbiology</i> , 1997, 43, 617-624.	1.7	23
41	Effects of Nitroethane and Monensin on Ruminal Fluid Fermentation Characteristics and Nitrocompound-Metabolizing Bacterial Populations. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 4650-4658.	5.2	23
42	Population Dynamics of <i>Salmonella enterica</i> within Beef Cattle Cohorts Followed from Single-Dose Metaphylactic Antibiotic Treatment until Slaughter. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	21
43	Prevalence and Concentration of <i>Campylobacter</i> in Rumen Contents and Feces in Pasture and Feedlot-Fed Cattle. <i>Foodborne Pathogens and Disease</i> , 2008, 5, 571-577.	1.8	20
44	Interactions of organic acids with <i>Campylobacter coli</i> from swine. <i>PLoS ONE</i> , 2018, 13, e0202100.	2.5	19
45	Inhibition and Interactions of <i>Campylobacter jejuni</i> from Broiler Chicken Houses with Organic Acids. <i>Microorganisms</i> , 2019, 7, 223.	3.6	19
46	<i>Paenibacillus</i> 79R4, a potential rumen probiotic to enhance nitrite detoxification and methane mitigation in nitrate-treated ruminants. <i>Science of the Total Environment</i> , 2019, 671, 324-328.	8.0	19
47	Effects of Feed Withdrawal and Transport on Cecal Environment and <i>Campylobacter</i> Concentrations in a Swine Surgical Model. <i>Journal of Food Protection</i> , 2001, 64, 730-733.	1.7	18
48	Comparative effect of thymol or its glucose conjugate, thymol- β -D-glucopyranoside, on <i>Campylobacter</i> in avian gut contents. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2015, 50, 55-61.	1.5	17
49	Effect of Thymol or Diphenyliodonium Chloride on Performance, Gut Fermentation Characteristics, and <i>Campylobacter</i> Colonization in Growing Swine. <i>Journal of Food Protection</i> , 2012, 75, 758-761.	1.7	16
50	<i>Pseudomonas</i> sp. BUP6, a novel isolate from Malabari goat produces an efficient rhamnolipid type biosurfactant. <i>Journal of Basic Microbiology</i> , 2017, 57, 21-33.	3.3	16
51	Technical note on a much simplified method for collecting ruminal fluid using a nylon paint strainer. <i>Journal of the Science of Food and Agriculture</i> , 2004, 84, 387-389.	3.5	14
52	Effects of feed-supplementation and hide-spray application of two sources of tannins on enteric and hide bacteria of feedlot cattle. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2011, 46, 360-365.	1.5	14
53	Ruminal Fermentation of Anti-Methanogenic Nitrate- and Nitro-Containing Forages In Vitro. <i>Frontiers in Veterinary Science</i> , 2016, 3, 62.	2.2	14
54	Disinfectant and Antimicrobial Susceptibility Profiles of the Big Six Non-O157 Shiga Toxin-Producing <i>Escherichia coli</i> Strains from Food Animals and Humans. <i>Journal of Food Protection</i> , 2016, 79, 1355-1370.	1.7	14

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55	<i>Ex Vivo</i> Absorption of Thymol and Thymol- β -D-glucopyranoside in Piglet Everted Jejunal Segments. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 3757-3762.	5.2	13
56	Comparison of anti-Campylobacter activity of free thymol and thymol- β -D-glucopyranoside in absence or presence of β -glycoside-hydrolysing gut bacteria. <i>Food Chemistry</i> , 2015, 173, 92-98.	8.2	13
57	Isolation, characterization and strain selection of a Paenibacillus species for use as a probiotic to aid in ruminal methane mitigation, nitrate/nitrite detoxification and food safety. <i>Bioresource Technology</i> , 2018, 263, 358-364.	9.6	13
58	Effects of Sodium Chlorate on Antibiotic Resistance in Escherichia coli O157:H7. <i>Foodborne Pathogens and Disease</i> , 2004, 1, 59-63.	1.8	12
59	<i>Nigella sativa</i> L. as an alternative antibiotic feed supplement and effect on growth performance in weanling pigs. <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 3175-3181.	3.5	12
60	Disinfectant and antimicrobial susceptibility studies of the foodborne pathogen Campylobacter jejuni isolated from the litter of broiler chicken houses. <i>Poultry Science</i> , 2021, 100, 1024-1033.	3.4	12
61	Comparison of GN Hajna and Tetrathionate as Initial Enrichment for Salmonellae Recovery from Swine Lymph Nodes and Cecal Contents Collected at Slaughter. <i>Journal of Veterinary Diagnostic Investigation</i> , 2001, 13, 258-260.	1.1	10
62	Influence of sprinklers, used to alleviate heat stress, on faecal shedding of <i>E. coli</i> O157:H7 and <i>Salmonella</i> and antimicrobial susceptibility of <i>Salmonella</i> and <i>Enterococcus</i> in lactating dairy cattle. <i>Letters in Applied Microbiology</i> , 2009, 48, 738-43.	2.2	10
63	Poultry litter and the environment: Microbial profile of litter during successive flock rotations and after spreading on pastureland. <i>Science of the Total Environment</i> , 2021, 780, 146413.	8.0	10
64	Influence of sodium chlorate, ferulic acid, and essential oils on Escherichia coli and porcine fecal microbiota. <i>Journal of Animal Science</i> , 2020, 98, .	0.5	9
65	Bacterial communities related to 3-nitro-1-propionic acid degradation in the rumen of grazing ruminants in the Qinghai-Tibetan Plateau. <i>Anaerobe</i> , 2018, 54, 42-54.	2.1	8
66	Disinfectant and Antimicrobial Susceptibility Profiles of <i>Campylobacter coli</i> Isolated in 1998 to 1999 and 2015 from Swine and Commercial Pork Chops. <i>Journal of Food Science</i> , 2019, 84, 1501-1512.	3.1	8
67	Nitro-treatment of composted poultry litter; effects on Salmonella, E. coli and nitrogen metabolism. <i>Bioresource Technology</i> , 2020, 310, 123459.	9.6	8
68	Characterization of bovine ruminal and equine cecal microbial populations enriched for enhanced nitro-toxin metabolizing activity. <i>Anaerobe</i> , 2014, 26, 7-13.	2.1	7
69	Short chain nitrocompounds as a treatment of layer hen manure and litter; effects on <i>in vitro</i> survivability of <i>Salmonella</i> , generic <i>E. coli</i> and nitrogen metabolism. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2017, 52, 23-29.	1.5	7
70	Inhibition of multidrug-resistant Staphylococci by sodium chlorate and select nitro- and medium chain fatty acid compounds. <i>Journal of Applied Microbiology</i> , 2019, 126, 1508-1518.	3.1	6
71	Evaluation of two commercially-available <i>Salmonella</i> vaccines on <i>Salmonella</i> in the peripheral lymph nodes of experimentally-infected cattle. , 2020, 8, 251513552095776.	2.3	6
72	High-Resolution Genomic Comparisons within <i>Salmonella enterica</i> Serotypes Derived from Beef Feedlot Cattle: Parsing the Roles of Cattle Source, Pen, Animal, Sample Type, and Production Period. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0048521.	3.1	6

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73	In vitro reduction of methane production by 3-nitro-1-propionic acid is dose-dependent. <i>Journal of Animal Science</i> , 2019, 97, 1317-1324.	0.5	5
74	Effect of chlorate, molybdate, and shikimic acid on <i>Salmonella enterica</i> serovar Typhimurium in aerobic and anaerobic cultures. <i>Anaerobe</i> , 2010, 16, 106-113.	2.1	4
75	Effect of sole or combined administration of nitrate and 3-nitro-1-propionic acid on fermentation and <i>Salmonella</i> survivability in alfalfa-fed rumen cultures in vitro. <i>Bioresource Technology</i> , 2017, 229, 69-77.	9.6	4
76	Evaluation of Thymol- β -D-Glucopyranoside as a Potential Prebiotic Intervention to Reduce Carriage of Zoonotic Pathogens in Weaned and Feeder Pigs. <i>Microorganisms</i> , 2021, 9, 860.	3.6	4
77	Disinfectant and Antimicrobial Susceptibility Profiles of <i>Salmonella</i> Strains from Feedlot Water-Sprinkled Cattle: Hides and Feces. <i>Journal of Food Chemistry and Nanotechnology</i> , 2017, 03, .	0.3	4
78	Comparison of nitroethane, 2-nitro-1-propanol, lauric acid, Lauricidin [®] and the Hawaiian marine algae, <i>Chaetoceros</i> , for potential broad-spectrum control of anaerobically grown lactic acid bacteria. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2012, 47, 269-274.	1.5	3
79	Effect of Distillers Feedstuffs and Lasalocid on <i>Campylobacter</i> Carriage in Feedlot Cattle. <i>Journal of Food Protection</i> , 2014, 77, 1968-1975.	1.7	3
80	Characterization of Nitrate-Reducing and Amino Acid-Using Bacteria Prominent in Nitrotoxin-Enriched Equine Cecal Populations. <i>Journal of Equine Veterinary Science</i> , 2016, 46, 47-53.	0.9	3
81	Interactions of organic acids with vancomycin-resistant <i>Enterococcus faecium</i> isolated from community wastewater in Texas. <i>Journal of Applied Microbiology</i> , 2019, 126, 480-488.	3.1	3
82	A Preliminary Study on the Presence of <i>Salmonella</i> in Lymph Nodes of Sows at Processing Plants in the United States. <i>Microorganisms</i> , 2020, 8, 1602.	3.6	3
83	<i>Astragalus mollissimus</i> plant extract: a strategy to reduce ruminal methanogenesis. <i>Tropical Animal Health and Production</i> , 2021, 53, 436.	1.4	3
84	Interactions of Organic Acids with <i>Salmonella</i> Strains from Feedlot Water-Sprinkled Cattle. <i>Journal of Food Chemistry and Nanotechnology</i> , 2017, 03, .	0.3	3
85	Influence of Pine Bark Tannin on Bacterial Pathogens Growth and Nitrogen Compounds on Changes in Composted Poultry Litter. <i>Brazilian Journal of Poultry Science</i> , 2020, 22, .	0.7	3
86	Innovative Treatments Enhancing the Functionality of Gut Microbiota to Improve Quality and Microbiological Safety of Foods of Animal Origin. <i>Annual Review of Food Science and Technology</i> , 2022, 13, 433-461.	9.9	3
87	Effects of Condensed Tannins Supplementation on Animal Performance, Phylogenetic Microbial Changes, and In Vitro Methane Emissions in Steers Grazing Winter Wheat. <i>Animals</i> , 2021, 11, 2391.	2.3	2
88	Antagonistic Effects of Lipids Against the Anti- <i>Escherichia coli</i> and Anti- <i>Salmonella</i> Activity of Thymol and Thymol- β -D-Glucopyranoside in Porcine Gut and Fecal Cultures In Vitro. <i>Frontiers in Veterinary Science</i> , 2021, 8, 751266.	2.2	2
89	Effects of nitroethane and 2-nitropropanol against <i>Campylobacter jejuni</i> . , 0, , .		2
90	Disinfectant and Antimicrobial Susceptibility Studies of <i>Staphylococcus aureus</i> Strains and ST398-MRSA and ST5-MRSA Strains from Swine Mandibular Lymph Node Tissue, Commercial Pork Sausage Meat and Swine Feces. <i>Microorganisms</i> , 2021, 9, 2401.	3.6	2

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91	Effect of Select Tannin Sources on Pathogen Control and Microbial Nitrogen Metabolism in Composted Poultry Litter Intended for Use as a Ruminant Crude Protein Feedstuff. <i>Frontiers in Veterinary Science</i> , 0, 9, .	2.2	2
92	Influence of light exposure on horizontal transmission of <i>Salmonella typhimurium</i> in weaned pigs. , 0, , .		1
93	Adult <i>Alphitobius diaperinus</i> Microbial Community during Broiler Production and in Spent Litter after Stockpiling. <i>Microorganisms</i> , 2022, 10, 175.	3.6	1
94	Evaluation of antimicrobial compounds to inhibit growth of select Gram-positive pathogenic or antimicrobial resistant bacteria in air-exposed silage. <i>Canadian Journal of Animal Science</i> , 2022, 102, 75-84.	1.5	1
95	Influence of housing type on the cecal environment of horses. <i>Translational Animal Science</i> , 2019, 3, 877-884.	1.1	0
96	Influence of ractopamine supplementation on <i>Salmonella</i> in feeder pigs. , 0, , .		0
97	Persistence of <i>Salmonella typhimurium</i> in porcine gut microflora. , 0, , .		0
98	Genotypic and phenotypic characterization of enteric bacteria in an integrated population of swine and humans. , 0, , .		0
99	Effect of sodium [³⁶ Cl]chlorate dose on total radioactive residues and residues of parent chlorate in swine. , 0, , .		0
100	Effects of antibiotic-supplemented media on recovery of enterobacteria. , 0, , .		0
101	Isolation of <i>Salmonella</i> spp. and bacteriophage active against <i>Salmonella</i> spp. from commercial swine. , 0, , .		0
102	A comparative study on the effect of subtherapeutic tylosin administration on select feral or domestic porcine gut microflora grown in continuous-flow culture. , 0, , .		0
103	Effect of thymol or diphenyliodonium chloride on feed intake, average daily gain and gut <i>Campylobacter</i> concentrations in growing swine. , 0, , .		0
104	Survey of <i>Clostridium difficile</i> in Food Animals and Retail Meats. , 0, , .		0
105	Effect of protein concentrations in the diet on productive performance, carcass characteristics, and meat chemical composition of broiler chickens in the dry subtropics. <i>Nova Scientia</i> , 2020, 12, .	0.1	0
106	Dynamics of Gastrointestinal Activity and Ruminal Absorption of the Methane-Inhibitor, Nitroethane, in Cattle. <i>Frontiers in Veterinary Science</i> , 2022, 9, 817270.	2.2	0
107	Prevalence and Antimicrobial Resistance of Nontyphoidal <i>Salmonella enterica</i> from Head Meat and Trim for Ground Product at Pork Processing Facilities. <i>Journal of Food Protection</i> , 2022, 85, 1008-1016.	1.7	0