

Jeroen M De Buck

List of Publications by Year in descending order

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107
papers

4,197
citations

87723

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107
all docs

107
docs citations

107
times ranked

4107
citing authors

#	ARTICLE	IF	CITATIONS
1	Clostridium perfringens in poultry: an emerging threat for animal and public health. Avian Pathology, 2004, 33, 537-549.	0.8	493
2	Medium-Chain Fatty Acids Decrease Colonization and Invasion through hilA Suppression Shortly after Infection of Chickens with Salmonella enterica Serovar Enteritidis. Applied and Environmental Microbiology, 2004, 70, 3582-3587.	1.4	165
3	Invited review: Microbiota of the bovine udder: Contributing factors and potential implications for udder health and mastitis susceptibility. Journal of Dairy Science, 2018, 101, 10605-10625.	1.4	159
4	Microencapsulated Short-Chain Fatty Acids in Feed Modify Colonization and Invasion Early After Infection with Salmonella Enteritidis in Young Chickens. Poultry Science, 2004, 83, 69-74.	1.5	130
5	Invasion of Salmonella enteritidis in avian intestinal epithelial cells in vitro is influenced by short-chain fatty acids. International Journal of Food Microbiology, 2003, 85, 237-248.	2.1	123
6	Colonization of the chicken reproductive tract and egg contamination by Salmonella. Journal of Applied Microbiology, 2004, 97, 233-245.	1.4	116
7	Dynamics of immune cell infiltration in the caecal lamina propria of chickens after neonatal infection with a Salmonella Enteritidis strain. Developmental and Comparative Immunology, 2002, 26, 355-364.	1.0	104
8	Antimicrobial resistance profiles of 5 common bovine mastitis pathogens in large Chinese dairy herds. Journal of Dairy Science, 2019, 102, 2416-2426.	1.4	83
9	Knowledge gaps that hamper prevention and control of Mycobacterium avium subspecies paratuberculosis infection. Transboundary and Emerging Diseases, 2018, 65, 125-148.	1.3	79
10	Identification of bovine-associated coagulase-negative staphylococci by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry using a direct transfer protocol. Journal of Dairy Science, 2017, 100, 2137-2147.	1.4	75
11	Intermittent long-term shedding and induction of carrier birds after infection of chickens early posthatch with a low or high dose of Salmonella enteritidis. Poultry Science, 2004, 83, 1911-1916.	1.5	73
12	Limitations of variable number of tandem repeat typing identified through whole genome sequencing of Mycobacterium avium subsp. paratuberculosis on a national and herd level. BMC Genomics, 2015, 16, 161.	1.2	71
13	Prevalence of non-aureus staphylococci species causing intramammary infections in Canadian dairy herds. Journal of Dairy Science, 2017, 100, 5592-5612.	1.4	70
14	Identification of lactobacilli isolated from the cloaca and vagina of laying hens and characterization for potential use as probiotics to control Salmonella Enteritidis. Journal of Applied Microbiology, 2006, 102, 061120055200049-???	1.4	69
15	Cell wall proteome analysis of Mycobacterium smegmatis strain MC2 155. BMC Microbiology, 2010, 10, 121.	1.3	65
16	Interactions of Butyric Acid- and Acetic Acid-Treated Salmonella with Chicken Primary Cecal Epithelial Cells In Vitro. Avian Diseases, 2004, 48, 384-391.	0.4	64
17	Evaluation of age-dependent susceptibility in calves infected with two doses of Mycobacterium avium subspecies paratuberculosis using pathology and tissue culture. Veterinary Research, 2013, 44, 94.	1.1	61
18	Cats as a Risk for Transmission of Antimicrobial Drug-resistant Salmonella. Emerging Infectious Diseases, 2004, 10, 2169-2174.	2.0	56

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19	Ulcerative Colitis Patients With <i>Clostridium difficile</i> are at Increased Risk of Death, Colectomy, and Postoperative Complications: A Population-Based Inception Cohort Study. <i>American Journal of Gastroenterology</i> , 2016, 111, 691-704.	0.2	56
20	Shedding patterns of dairy calves experimentally infected with <i>Mycobacterium avium</i> subspecies paratuberculosis. <i>Veterinary Research</i> , 2014, 45, 71.	1.1	55
21	Distribution of non-aureus staphylococci species in udder quarters with low and high somatic cell count, and clinical mastitis. <i>Journal of Dairy Science</i> , 2017, 100, 5613-5627.	1.4	55
22	Tubular Glands of the Isthmus are the Predominant Colonization Site of <i>Salmonella</i> Enteritidis in the Upper Oviduct of Laying Hens. <i>Poultry Science</i> , 2004, 83, 352-358.	1.5	52
23	Prevalence and Genetic Basis of Antimicrobial Resistance in Non-aureus Staphylococci Isolated from Canadian Dairy Herds. <i>Frontiers in Microbiology</i> , 2018, 9, 256.	1.5	52
24	Non-aureus Staphylococci and Bovine Udder Health: Current Understanding and Knowledge Gaps. <i>Frontiers in Veterinary Science</i> , 2021, 8, 658031.	0.9	52
25	Localization of proteins in the cell wall of <i>Mycobacterium avium</i> subsp. paratuberculosis K10 by proteomic analysis. <i>Proteome Science</i> , 2010, 8, 21.	0.7	51
26	Comprehensive Phylogenetic Analysis of Bovine Non-aureus Staphylococci Species Based on Whole-Genome Sequencing. <i>Frontiers in Microbiology</i> , 2016, 7, 1990.	1.5	49
27	Genomic analysis of the multi-host pathogen <i>Erysipelothrix rhusiopathiae</i> reveals extensive recombination as well as the existence of three generalist clades with wide geographic distribution. <i>BMC Genomics</i> , 2016, 17, 461.	1.2	49
28	Metabolomic Profiling in Cattle Experimentally Infected with <i>Mycobacterium avium</i> subsp. paratuberculosis. <i>PLoS ONE</i> , 2014, 9, e111872.	1.1	49
29	Effect of type 1 fimbriae of <i>Salmonella enterica</i> serotype Enteritidis on bacteraemia and reproductive tract infection in laying hens. <i>Avian Pathology</i> , 2004, 33, 314-320.	0.8	47
30	High herd-level prevalence of <i>Mycobacterium avium</i> subspecies paratuberculosis in Western Canadian dairy farms, based on environmental sampling. <i>Journal of Dairy Science</i> , 2014, 97, 6250-6259.	1.4	47
31	Bacteriocins of Non-aureus Staphylococci Isolated from Bovine Milk. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	46
32	Composition of the teat canal and intramammary microbiota of dairy cows subjected to antimicrobial dry cow therapy and internal teat sealant. <i>Journal of Dairy Science</i> , 2018, 101, 10191-10205.	1.4	46
33	The Features of Fecal and Ileal Mucosa-Associated Microbiota in Dairy Calves during Early Infection with <i>Mycobacterium avium</i> Subspecies paratuberculosis. <i>Frontiers in Microbiology</i> , 2016, 7, 426.	1.5	44
34	Bacterial Genomics Reveal the Complex Epidemiology of an Emerging Pathogen in Arctic and Boreal Ungulates. <i>Frontiers in Microbiology</i> , 2016, 7, 1759.	1.5	44
35	Comparison of treatment records and inventory of empty drug containers to quantify antimicrobial usage in dairy herds. <i>Journal of Dairy Science</i> , 2017, 100, 9736-9745.	1.4	44
36	The effect of vaccination with a <i>Salmonella</i> Enteritidis aroA mutant on early cellular responses in caecal lamina propria of newly-hatched chickens. <i>Vaccine</i> , 2002, 20, 3034-3041.	1.7	42

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37	Factors associated with participation of Alberta dairy farmers in a voluntary, management-based Johneâ€™s disease control program. <i>Journal of Dairy Science</i> , 2015, 98, 7831-7845.	1.4	41
38	Susceptibility to and diagnosis of <i>Mycobacterium avium</i> subspecies paratuberculosis infection in dairy calves: A review. <i>Preventive Veterinary Medicine</i> , 2015, 121, 189-198.	0.7	40
39	Gene-expression profiling of calves 6 and 9 months after inoculation with <i>Mycobacterium avium</i> subspecies paratuberculosis. <i>Veterinary Research</i> , 2014, 45, 96.	1.1	39
40	Adhesion of <i>Salmonella enterica</i> serotype Enteritidis isolates to chicken isthmal glandular secretions. <i>Veterinary Microbiology</i> , 2003, 93, 223-233.	0.8	38
41	Association of bovine major histocompatibility complex (BoLA) gene polymorphism with colostrum and milk microbiota of dairy cows during the first week of lactation. <i>Microbiome</i> , 2018, 6, 203.	4.9	38
42	Antimicrobial resistance in non-aureus staphylococci isolated from milk is associated with systemic but not intramammary administration of antimicrobials in dairy cattle. <i>Journal of Dairy Science</i> , 2018, 101, 7425-7436.	1.4	36
43	Genomic Analysis of Bovine <i>Staphylococcus aureus</i> Isolates from Milk To Elucidate Diversity and Determine the Distributions of Antimicrobial and Virulence Genes and Their Association with Mastitis. <i>MSystems</i> , 2020, 5, .	1.7	35
44	Intestinal infection following aerosol challenge of calves with <i>Mycobacterium avium</i> subspecies paratuberculosis. <i>Veterinary Research</i> , 2011, 42, 117.	1.1	34
45	Comprehensive Virulence Gene Profiling of Bovine Non- <i>aureus</i> Staphylococci Based on Whole-Genome Sequencing Data. <i>MSystems</i> , 2019, 4, .	1.7	32
46	Composition and co-occurrence patterns of the microbiota of different niches of the bovine mammary gland: potential associations with mastitis susceptibility, udder inflammation, and teat-end hyperkeratosis. <i>Animal Microbiome</i> , 2020, 2, 11.	1.5	32
47	Protection of laying hens against <i>Salmonella</i> Enteritidis by immunization with type 1 fimbriae. <i>Veterinary Microbiology</i> , 2005, 105, 93-101.	0.8	31
48	Gene expression profiling and putative biomarkers of calves 3 months after infection with <i>Mycobacterium avium</i> subspecies paratuberculosis. <i>Veterinary Immunology and Immunopathology</i> , 2014, 160, 107-117.	0.5	31
49	Antibody response early after experimental infection with <i>Mycobacterium avium</i> subspecies paratuberculosis in dairy calves. <i>Journal of Dairy Science</i> , 2014, 97, 5558-5565.	1.4	31
50	Prevalence of <i>Mycobacterium avium</i> ssp. paratuberculosis infections in Canadian dairy herds. <i>Journal of Dairy Science</i> , 2018, 101, 11218-11228.	1.4	31
51	Genomic Comparison of PE and PPE Genes in the <i>Mycobacterium avium</i> Complex. <i>Journal of Clinical Microbiology</i> , 2009, 47, 1002-1011.	1.8	30
52	Calves shedding <i>Mycobacterium avium</i> subspecies paratuberculosis are common on infected dairy farms. <i>Veterinary Research</i> , 2015, 46, 71.	1.1	30
53	Prevalence of antimicrobial resistance genes and its association with restricted antimicrobial use in food-producing animals: a systematic review and meta-analysis. <i>Journal of Antimicrobial Chemotherapy</i> , 2021, 76, 561-575.	1.3	30
54	The modification and evaluation of an ELISA test for the surveillance of <i>Mycobacterium avium</i> subsp. paratuberculosis infection in wild ruminants. <i>BMC Veterinary Research</i> , 2013, 9, 5.	0.7	29

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55	Associations between digital dermatitis lesion grades in dairy cattle and the quantities of four <i>Treponema</i> species. <i>Veterinary Research</i> , 2018, 49, 111.	1.1	28
56	Presence of PPE proteins in <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> isolates and their immunogenicity in cattle. <i>Veterinary Microbiology</i> , 2009, 135, 394-400.	0.8	25
57	Fecal shedding and tissue infections demonstrate transmission of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> in group-housed dairy calves. <i>Veterinary Research</i> , 2017, 48, 27.	1.1	25
58	Determining the IgG concentrations in bovine colostrum and calf sera with a novel enzymatic assay. <i>Journal of Animal Science and Biotechnology</i> , 2018, 9, 69.	2.1	24
59	Genome-Wide Diversity and Phylogeography of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> in Canadian Dairy Cattle. <i>PLoS ONE</i> , 2016, 11, e0149017.	1.1	24
60	Sequence Polymorphisms in a Surface PPE Protein Distinguish Types I, II, and III of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> . <i>Journal of Clinical Microbiology</i> , 2008, 46, 1207-1212.	1.8	23
61	Udder health in Canadian dairy heifers during early lactation. <i>Journal of Dairy Science</i> , 2018, 101, 3233-3247.	1.4	23
62	Bacteria-host interactions of <i>Salmonella Paratyphi B</i> dT+ in poultry. <i>Epidemiology and Infection</i> , 2004, 132, 239-243.	1.0	22
63	OCCURRENCE, DIAGNOSIS, AND STRAIN TYPING OF <i>MYCOBACTERIUM AVIUM</i> SUBSPECIES <i>PARATUBERCULOSIS</i> INFECTION IN ROCKY MOUNTAIN BIGHORN SHEEP (<i>OVIS CANADENSIS CANADENSIS</i>) IN SOUTHWESTERN ALBERTA. <i>Journal of Wildlife Diseases</i> , 2012, 48, 1-11.	0.3	22
64	Rapid identification of bovine mastitis pathogens by high-resolution melt analysis of 16S rDNA sequences. <i>Veterinary Microbiology</i> , 2012, 155, 332-340.	0.8	22
65	Dairy farms testing positive for <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> have poorer hygiene practices and are less cautious when purchasing cattle than test-negative herds. <i>Journal of Dairy Science</i> , 2016, 99, 4526-4536.	1.4	22
66	<i>Clostridium difficile</i> Infection Worsens the Prognosis of Ulcerative Colitis. <i>Canadian Journal of Gastroenterology and Hepatology</i> , 2014, 28, 373-380.	0.8	21
67	Sampling location, herd size, and season influence <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> environmental culture results. <i>Journal of Dairy Science</i> , 2015, 98, 275-287.	1.4	21
68	Dose-dependent interferon-gamma release in dairy calves experimentally infected with <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> . <i>Veterinary Immunology and Immunopathology</i> , 2014, 161, 205-210.	0.5	20
69	Identification and Quantification of Bovine Digital Dermatitis-Associated Microbiota across Lesion Stages in Feedlot Beef Cattle. <i>MSystems</i> , 2021, 6, e0070821.	1.7	19
70	Synthetic cathelicidin LL-37 reduces <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> internalization and pro-inflammatory cytokines in macrophages. <i>Cell and Tissue Research</i> , 2020, 379, 207-217.	1.5	17
71	Critically important antimicrobials are generally not needed to treat nonsevere clinical mastitis in lactating dairy cows: Results from a network meta-analysis. <i>Journal of Dairy Science</i> , 2020, 103, 10585-10603.	1.4	17
72	Factors affecting management changes on farms participating in a Johnes™s disease control program. <i>Journal of Dairy Science</i> , 2015, 98, 7784-7796.	1.4	16

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73	High-resolution melt analysis for species identification of coagulase-negative staphylococci derived from bovine milk. <i>Diagnostic Microbiology and Infectious Disease</i> , 2013, 75, 227-234.	0.8	14
74	Examination of <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> mixed genotype infections in dairy animals using a whole genome sequencing approach. <i>PeerJ</i> , 2016, 4, e2793.	0.9	14
75	Split trehalase as a versatile reporter for a wide range of biological analytes. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1128-1136.	1.7	13
76	A Differential Innate Immune Response in Active and Chronic Stages of Bovine Infectious Digital Dermatitis. <i>Frontiers in Microbiology</i> , 2018, 9, 1586.	1.5	13
77	Adherent/invasive capacities of bovine-associated <i>Aerococcus viridans</i> contribute to pathogenesis of acute mastitis in a murine model. <i>Veterinary Microbiology</i> , 2019, 230, 202-211.	0.8	13
78	Rapid Identification and Differentiation of <i>Mycobacterium avium</i> Subspecies <i>paratuberculosis</i> Types by Use of Real-Time PCR and High-Resolution Melt Analysis of the MAP1506 Locus. <i>Journal of Clinical Microbiology</i> , 2010, 48, 1474-1477.	1.8	12
79	Improved Short-Sequence-Repeat Genotyping of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> by Using Matrix-Assisted Laser Desorption Ionization–Time of Flight Mass Spectrometry. <i>Applied and Environmental Microbiology</i> , 2014, 80, 534-539.	1.4	12
80	Meta-Analysis of Bovine Digital Dermatitis Microbiota Reveals Distinct Microbial Community Structures Associated With Lesions. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 685861.	1.8	11
81	Contrasting Results of Culture-Dependent and Molecular Analyses of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> from Wood Bison. <i>Applied and Environmental Microbiology</i> , 2013, 79, 4448-4454.	1.4	10
82	Occurrence of <i>Mycobacterium avium</i> subspecies <i>paratuberculosis</i> and <i>Neospora caninum</i> in Alberta cow-calf operations. <i>Preventive Veterinary Medicine</i> , 2014, 117, 95-102.	0.7	10
83	Development of a single-dose recombinant CAMP factor entrapping poly(lactide-co-glycolide) microspheres-based vaccine against <i>Streptococcus agalactiae</i> . <i>Vaccine</i> , 2017, 35, 1246-1253.	1.7	10
84	The impact of prebiotics and salmonellosis on apparent nutrient digestibility and <i>Salmonella typhimurium</i> var. Copenhagen excretion in adult pigeons (<i>Columba livia domestica</i>). <i>Poultry Science</i> , 2004, 83, 1884-1890.	1.5	9
85	PCR amplification and high-resolution melting curve analysis as a rapid diagnostic method for genotyping members of the <i>Mycobacterium avium</i> – <i>intracellulare</i> complex. <i>Clinical Microbiology and Infection</i> , 2010, 16, 1658-1662.	2.8	9
86	Oxytetracycline reduces inflammation and treponeme burden whereas vitamin D3 promotes β -defensin expression in bovine infectious digital dermatitis. <i>Cell and Tissue Research</i> , 2020, 379, 337-348.	1.5	9
87	Serum Metabolomic Profiles of Paratuberculosis Infected and Infectious Dairy Cattle by Ambient Mass Spectrometry. <i>Frontiers in Veterinary Science</i> , 2020, 7, 625067.	0.9	9
88	Experimental infection with subspecies resulting in decreased body weight in Holstein-Friesian calves. <i>Canadian Veterinary Journal</i> , 2017, 58, 296-298.	0.0	9
89	Quantifying fecal shedding of <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> from calves after experimental infection and exposure. <i>Journal of Dairy Science</i> , 2018, 101, 1478-1487.	1.4	8
90	Environmental sample characteristics and herd size associated with decreased herd-level prevalence of <i>Mycobacterium avium</i> ssp. <i>paratuberculosis</i> . <i>Journal of Dairy Science</i> , 2018, 101, 8092-8099.	1.4	8

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91	Detecting total immunoglobulins in diverse animal species with a novel split enzymatic assay. BMC Veterinary Research, 2019, 15, 374.	0.7	8
92	Quantifying transmission of Mycobacterium avium subsp. paratuberculosis among group-housed dairy calves. Veterinary Research, 2019, 50, 60.	1.1	6
93	DETECTION OF MYCOBACTERIUM AVIUM SUBSPECIES PARATUBERCULOSIS IN SEVERAL HERDS OF ARCTIC CARIBOU (RANGIFER TARANDUS SSP.). Journal of Wildlife Diseases, 2012, 48, 918-924.	0.3	5
94	Short communication: Evaluation of sampling socks for detection of Mycobacterium avium ssp. paratuberculosis on dairy farms. Journal of Dairy Science, 2016, 99, 2950-2955.	1.4	5
95	Short communication: Herd-level prevalence of Mycobacterium avium ssp. paratuberculosis is not associated with participation in a voluntary Alberta Johne's disease control program. Journal of Dairy Science, 2016, 99, 2157-2160.	1.4	5
96	Effects of freezing on ability to detect Mycobacterium avium subsp. paratuberculosis from bovine tissues following culture. Journal of Veterinary Diagnostic Investigation, 2018, 30, 743-746.	0.5	5
97	Autotransporter-based surface expression and complementation of split TreA fragments utilized for the detection of antibodies against bovine leukemia virus. Journal of Immunological Methods, 2021, 495, 113084.	0.6	5
98	Relative frequency of 4 major strain types of Mycobacterium avium ssp. paratuberculosis in Canadian dairy herds using a novel single nucleotide polymorphism-based polymerase chain reaction. Journal of Dairy Science, 2016, 99, 8297-8303.	1.4	4
99	Short communication: Molecular characteristics, antimicrobial susceptibility, and pathogenicity of clinical Nocardia cyriacigeorgica isolates from an outbreak of bovine mastitis. Journal of Dairy Science, 2017, 100, 8414-8421.	1.4	4
100	Treponema spp. Isolated from Bovine Digital Dermatitis Display Different Pathogenicity in a Murine Abscess Model. Microorganisms, 2020, 8, 1507.	1.6	4
101	Oral vaccination stimulates neutrophil functionality and exerts protection in a Mycobacterium avium subsp. paratuberculosis infection model. Npj Vaccines, 2021, 6, 102.	2.9	4
102	A high-morbidity outbreak of Johne's disease in game-ranched elk. Canadian Veterinary Journal, 2015, 56, 479-83.	0.0	4
103	Development of a blood calcium test for hypocalcemia diagnosis in dairy cows. Research in Veterinary Science, 2022, 147, 60-67.	0.9	4
104	Effects of different culture media on growth of Treponema spp. isolated from digital dermatitis. Anaerobe, 2021, 69, 102345.	1.0	3
105	Longitudinal evaluation of diagnostics in experimentally infected young calves during subclinical and clinical paratuberculosis. Canadian Veterinary Journal, 2015, 56, 1266-70.	0.0	2
106	Identification of subspecies strains isolated from dairy goats and dairy sheep in Ontario, Canada. Canadian Journal of Veterinary Research, 2017, 81, 304-307.	0.2	1
107	Inducing cellular immune responses with a marked Mycobacterium avium subsp. paratuberculosis strain in dairy calves. Veterinary Microbiology, 2020, 244, 108665.	0.8	0