

Luke B Borst

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

2,158
citations

25
h-index

44
g-index

88
ext. papers

2,585
ext. citations

4
avg, IF

4.57
L-index

#	Paper	IF	Citations
85	Investigating the optimal size of anticancer nanomedicine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15344-9	11.5	406
84	Synthesis and biological response of size-specific, monodisperse drug-silica nanoconjugates. <i>ACS Nano</i> , 2012 , 6, 3954-66	16.7	145
83	Gene profiling of canine B-cell lymphoma reveals germinal center and postgerminal center subtypes with different survival times, modeling human DLBCL. <i>Cancer Research</i> , 2013 , 73, 5029-39	10.1	95
82	Carbon monoxide and heme oxygenase-1 prevent intestinal inflammation in mice by promoting bacterial clearance. <i>Gastroenterology</i> , 2013 , 144, 789-98	13.3	85
81	Nucleic acid scavengers inhibit thrombosis without increasing bleeding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12938-43	11.5	81
80	Refining tumor-associated aneuploidy through genomic recoding of recurrent DNA copy number aberrations in 150 canine non-Hodgkin lymphomas. <i>Leukemia and Lymphoma</i> , 2011 , 52, 1321-35	1.9	75
79	Targeting tumor vasculature with aptamer-functionalized doxorubicin-poly lactide nanoconjugates for enhanced cancer therapy. <i>ACS Nano</i> , 2015 , 9, 5072-81	16.7	58
78	Early life stress triggers persistent colonic barrier dysfunction and exacerbates colitis in adult IL-10 ^{-/-} mice. <i>Inflammatory Bowel Diseases</i> , 2013 , 19, 712-9	4.5	55
77	Genetic ablation of arginase 1 in macrophages and neutrophils enhances clearance of an arthritogenic alphavirus. <i>Journal of Immunology</i> , 2012 , 189, 4047-59	5.3	54
76	Pamidronate functionalized nanoconjugates for targeted therapy of focal skeletal malignant osteolysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E4601-9	11.5	53
75	Lymphoma immunophenotype of dogs determined by immunohistochemistry, flow cytometry, and polymerase chain reaction for antigen receptor rearrangements. <i>Journal of Veterinary Internal Medicine</i> , 2013 , 27, 1509-16	3.1	50
74	Genomic profiling reveals extensive heterogeneity in somatic DNA copy number aberrations of canine hemangiosarcoma. <i>Chromosome Research</i> , 2014 , 22, 305-19	4.4	46
73	Enterococcus faecalis Gelatinase Mediates Intestinal Permeability via Protease-Activated Receptor 2. <i>Infection and Immunity</i> , 2015 , 83, 2762-70	3.7	45
72	Innate PI3K p110 α regulates Th1/Th17 development and microbiota-dependent colitis. <i>Journal of Immunology</i> , 2014 , 192, 3958-68	5.3	42
71	Comparative cytogenetic characterization of primary canine melanocytic lesions using array CGH and fluorescence in situ hybridization. <i>Chromosome Research</i> , 2015 , 23, 171-86	4.4	41
70	Scavenging nucleic acid debris to combat autoimmunity and infectious disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 9728-33	11.5	41
69	An outbreak and source investigation of enterococcal spondylitis in broilers caused by <i>Enterococcus cecorum</i> . <i>Avian Diseases</i> , 2012 , 56, 768-73	1.6	38

68	Biological behavior of oral and perioral mast cell tumors in dogs: 44 cases (1996-2006). <i>Journal of the American Veterinary Medical Association</i> , 2010 , 237, 936-42	1	38
67	Pathogenesis of Enterococcal Spondylitis Caused by <i>Enterococcus cecorum</i> in Broiler Chickens. <i>Veterinary Pathology</i> , 2017 , 54, 61-73	2.8	35
66	Comparative Genomics Reveals Shared Mutational Landscape in Canine Hemangiosarcoma and Human Angiosarcoma. <i>Molecular Cancer Research</i> , 2019 , 17, 2410-2421	6.6	33
65	Molecular epidemiology of <i>Enterococcus cecorum</i> isolates recovered from enterococcal spondylitis outbreaks in the southeastern United States. <i>Avian Pathology</i> , 2012 , 41, 479-85	2.4	32
64	Early-life dietary spray-dried plasma influences immunological and intestinal injury responses to later-life <i>Salmonella typhimurium</i> challenge. <i>British Journal of Nutrition</i> , 2015 , 113, 783-93	3.6	31
63	NFIL3-deficient mice develop microbiota-dependent, IL-12/23-driven spontaneous colitis. <i>Journal of Immunology</i> , 2014 , 192, 1918-27	5.3	31
62	Acute DNA damage activates the tumour suppressor p53 to promote radiation-induced lymphoma. <i>Nature Communications</i> , 2015 , 6, 8477	17.4	30
61	Dual small-molecule targeting of procaspase-3 dramatically enhances zymogen activation and anticancer activity. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1312-9	16.4	25
60	Defects in small intestinal epithelial barrier function and morphology associated with peri-weaning failure to thrive syndrome (PFTS) in swine. <i>Research in Veterinary Science</i> , 2012 , 93, 975-82	2.5	24
59	Mortality in kittens is associated with a shift in ileum mucosa-associated enterococci from <i>Enterococcus hirae</i> to biofilm-forming <i>Enterococcus faecalis</i> and adherent <i>Escherichia coli</i> . <i>Journal of Clinical Microbiology</i> , 2013 , 51, 3567-78	9.7	24
58	Dietary Iron Deficiency and Oversupplementation Increase Intestinal Permeability, Ion Transport, and Inflammation in Pigs. <i>Journal of Nutrition</i> , 2016 , 146, 1499-505	4.1	24
57	A Review of <i>Enterococcus cecorum</i> Infection in Poultry. <i>Avian Diseases</i> , 2018 , 62, 261-271	1.6	24
56	Comparative genomic analysis identifies divergent genomic features of pathogenic <i>Enterococcus cecorum</i> including a type IC CRISPR-Cas system, a capsule locus, an epa-like locus, and putative host tissue binding proteins. <i>PLoS ONE</i> , 2015 , 10, e0121294	3.7	22
55	A chicken embryo lethality assay for pathogenic <i>Enterococcus cecorum</i> . <i>Avian Diseases</i> , 2014 , 58, 244-8	1.6	22
54	Antimicrobial resistance, virulence determinants and genetic profiles of clinical and nonclinical <i>Enterococcus cecorum</i> from poultry. <i>Letters in Applied Microbiology</i> , 2015 , 60, 111-119	2.9	20
53	Biological behaviour of canine mandibular osteosarcoma. A retrospective study of 50 cases (1999-2007). <i>Veterinary and Comparative Oncology</i> , 2015 , 13, 89-97	2.5	19
52	Evaluation of a commercially available modified-live <i>Streptococcus equi</i> subsp <i>equi</i> vaccine in ponies. <i>American Journal of Veterinary Research</i> , 2011 , 72, 1130-8	1.1	19
51	Characterization of immune cell infiltration into canine intracranial meningiomas. <i>Veterinary Pathology</i> , 2012 , 49, 784-95	2.8	17

50	Pro-tumorigenic effects of transforming growth factor beta 1 in canine osteosarcoma. <i>Journal of Veterinary Internal Medicine</i> , 2014 , 28, 894-904	3.1	16
49	B-mode and Doppler ultrasonography in pony mares with experimentally induced ascending placentitis. <i>Equine Veterinary Journal</i> , 2012 , 44, 88-94	2.4	16
48	Temporal characterization of wooden breast myopathy ("woody breast") severity and correlation with growth rate and lymphocytic phlebitis in three commercial broiler strains and a random-bred broiler strain. <i>Avian Pathology</i> , 2019 , 48, 319-328	2.4	15
47	YaxAB, a Yersinia enterocolitica pore-forming toxin regulated by RovA. <i>Infection and Immunity</i> , 2013 , 81, 4208-19	3.7	15
46	Discovery of a bovine enterovirus in alpaca. <i>PLoS ONE</i> , 2013 , 8, e68777	3.7	15
45	Molecular characterization of canine BCR-ABL-positive chronic myelomonocytic leukemia before and after chemotherapy. <i>Veterinary Clinical Pathology</i> , 2013 , 42, 314-22	1	14
44	A novel method of core aspirate cytology compared to fine-needle aspiration for diagnosing canine osteosarcoma. <i>Journal of the American Animal Hospital Association</i> , 2011 , 47, 317-23	1.3	13
43	Characterization of BcaA, a putative classical autotransporter protein in Burkholderia pseudomallei. <i>Infection and Immunity</i> , 2013 , 81, 1121-8	3.7	12
42	A multiphasic typing approach to subtype Streptococcus equi subspecies equi. <i>Journal of Veterinary Diagnostic Investigation</i> , 2010 , 22, 928-36	1.5	12
41	Extreme lymphocytosis with myelomonocytic morphology in a horse with diffuse large B-cell lymphoma. <i>Veterinary Clinical Pathology</i> , 2017 , 46, 64-71	1	11
40	Culture methods impact recovery of antibiotic-resistant Enterococci including Enterococcus cecorum from pre- and postharvest chicken. <i>Letters in Applied Microbiology</i> , 2017 , 64, 210-216	2.9	9
39	Histopathological features of equine superficial, nonhealing, corneal ulcers. <i>Veterinary Ophthalmology</i> , 2014 , 17 Suppl 1, 46-52	1.4	9
38	Immune dysregulation and osteosarcoma: Staphylococcus aureus downregulates TGF- β and heightens the inflammatory signature in human and canine macrophages suppressed by osteosarcoma. <i>Veterinary and Comparative Oncology</i> , 2020 , 18, 64-75	2.5	9
37	Integrated immunohistochemical and DNA copy number profiling analysis provides insight into the molecular pathogenesis of canine follicular lymphoma. <i>Veterinary and Comparative Oncology</i> , 2017 , 15, 852-867	2.5	8
36	Cathepsin K expression and activity in canine osteosarcoma. <i>Journal of Veterinary Internal Medicine</i> , 2012 , 26, 126-34	3.1	8
35	Zebrafish (Danio rerio) as a screen for attenuation of Lancefield group C streptococci and a model for streptococcal pathogenesis. <i>Veterinary Pathology</i> , 2013 , 50, 457-67	2.8	8
34	The role of during co-infection with avian pathogenic in avian colibacillosis. <i>Avian Pathology</i> , 2020 , 49, 589-599	2.4	8
33	Coinfection with Eimeria spp. decreases bacteremia and spinal lesions caused by pathogenic Enterococcus cecorum. <i>Animal Feed Science and Technology</i> , 2019 , 250, 59-68	3	6

32	Prevalence and severity of osteochondrosis of the free thoracic vertebra in three modern broiler strains and the Athens Canadian Random Bred control broiler. <i>Avian Pathology</i> , 2018 , 47, 152-160	2.4	6
31	Alternative lengthening of telomeres does exist in various canine sarcomas. <i>Molecular Carcinogenesis</i> , 2017 , 56, 923-935	5	6
30	Wooden Breast in Commercial Broilers Associated with Mortality, Dorsal Recumbency, and Pulmonary Disease. <i>Avian Diseases</i> , 2019 , 63, 514-519	1.6	6
29	Personalized-induced neural stem cell therapy: Generation, transplant, and safety in a large animal model. <i>Bioengineering and Translational Medicine</i> , 2021 , 6, e10171	14.8	6
28	Sensitization of Vascular Endothelial Cells to Ionizing Radiation Promotes the Development of Delayed Intestinal Injury in Mice. <i>Radiation Research</i> , 2019 , 192, 258-266	3.1	5
27	Diagnosis and management of Wegener's granulomatosis in a dog. <i>Journal of Veterinary Dentistry</i> , 2006 , 23, 231-6	1	5
26	A Comprehensive Wellness Program for Veterinary Medical Education: Design and Implementation at North Carolina State University. <i>International Journal of Higher Education</i> , 2016 , 6, 74	0.7	4
25	Evaluation of the effects of tricaine methanesulfonate on retinal structure and function in koi carp (<i>Cyprinus carpio</i>). <i>Journal of the American Veterinary Medical Association</i> , 2013 , 242, 1578-82	1	4
24	Oesophageal eosinophilia accompanies food allergy to hen egg white protein in young pigs. <i>Clinical and Experimental Allergy</i> , 2020 , 50, 95-104	4.1	4
23	Research Note: Repetitive element-based polymerase chain reaction genotyping improves efficiency of Salmonella surveillance in a model broiler production system. <i>Poultry Science</i> , 2020 , 99, 2684-2689	3.9	3
22	Clinical challenge. Squamous cell carcinoma. <i>Journal of Zoo and Wildlife Medicine</i> , 2011 , 42, 770-3	0.9	3
21	Vaccination of breeder hens with a polyvalent killed vaccine for pathogenic <i>Enterococcus cecorum</i> does not protect offspring from enterococcal spondylitis. <i>Avian Pathology</i> , 2019 , 48, 17-24	2.4	3
20	Bone marrow-derived cells participate in the formation of normal and neoplastic lung stroma. <i>Anticancer Research</i> , 2013 , 33, 831-6	2.3	3
19	Chronic compressive myelopathy and progressive neurologic signs associated with melarsomine dihydrochloride administration in a dog. <i>Journal of the American Animal Hospital Association</i> , 2013 , 49, 389-93	1.3	2
18	Genomic analysis reveals shared genes and pathways in human and canine angiosarcoma		2
17	Other Bacterial Diseases 2020 , 995-1085		2
16	Allantoic Metabolites, Progesterone, and Estradiol-17β Remain Unchanged After Infection in an Experimental Model of Equine Ascending Placentitis. <i>Journal of Equine Veterinary Science</i> , 2019 , 73, 95-105	1.2	2
15	Assessment of a novel nanoparticle hyperthermia therapy in a murine model of osteosarcoma. <i>Veterinary Surgery</i> , 2018 , 47, 1021-1030	1.7	2

14	Immunohistochemistry 2016 , 44-87		1
13	Pathology in Practice. <i>Journal of the American Veterinary Medical Association</i> , 2016 , 249, 1023-1026	1	1
12	Cranial internal hemipelvectomy (iliectomy) with limb sparing for a dog with ilial chondrosarcoma: A case report.. <i>Clinical Case Reports (discontinued)</i> , 2022 , 10, e05262	0.7	1
11	Dietary Prebiotics and Arachidonic Acid (ARA) Modulate Intestinal Injury and Microbial Taxa Following Acute Dextran Sodium Sulfate Induced Colitis in Formula-Fed Piglets. <i>FASEB Journal</i> , 2017 , 31, lb324	0.9	1
10	Development of a Genome-Wide Oligonucleotide Microarray Platform for Detection of DNA Copy Number Aberrations in Feline Cancers. <i>Veterinary Sciences</i> , 2020 , 7,	2.4	1
9	A Zebrafish Model of Metastatic Colonization Pinpoints Cellular Mechanisms of Circulating Tumor Cell Extravasation. <i>Frontiers in Oncology</i> , 2021 , 11, 641187	5.3	1
8	What Is Your Diagnosis?. <i>Journal of the American Veterinary Medical Association</i> , 2018 , 252, 173-175	1	0
7	DESCRIPTION OF GROWTH DYNAMICS OF BIOFILM BACTERIA FOUND IN EXTENDED PORCINE SEMEN. <i>Biology of Reproduction</i> , 2007 , 77, 84-85	3.9	0
6	Plasma metabolomic profiling of healthy pregnant mares and mares with experimentally induced placentitis. <i>Equine Veterinary Journal</i> , 2021 , 53, 85-93	2.4	0
5	Genomic Characterization of a Nalidixic Acid-Resistant Enteritidis Strain Causing Persistent Infections in Broiler Chickens. <i>Frontiers in Veterinary Science</i> , 2021 , 8, 725737	3.1	0
4	Serum and Colostral Antibody Responses of Pregnant Mares to Salmonella Bacterins and Colostral Antibody Transfer to Their Foals. <i>Journal of Equine Veterinary Science</i> , 2012 , 32, 575-578	1.2	
3	Creation of a Continent Urinary Bladder Reservoir Vascularized by Omentum as a Possible Surgical Option for Canine Trigonal/Urethral Urothelial Carcinoma. <i>Journal of Investigative Surgery</i> , 2020 , 1-15	1.2	
2	Extrauterine listeriosis in the gravid mouse influences embryonic growth and development. <i>PLoS ONE</i> , 2013 , 8, e72601	3.7	
1	Pathology in Practice.. <i>Journal of the American Veterinary Medical Association</i> , 2022 , 1-3	1	