

Peter Constable

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

3,140
citations

136740

32
h-index

182168

51
g-index

103
all docs

103
docs citations

103
times ranked

1789
citing authors

#	ARTICLE	IF	CITATIONS
1	A simplified strong ion model for acid-base equilibria: application to horse plasma. <i>Journal of Applied Physiology</i> , 1997, 83, 297-311.	1.2	178
2	Clinical Assessment of Acid-Base Status: Comparison of the Henderson-Hasselbalch and Strong Ion Approaches. <i>Veterinary Clinical Pathology</i> , 2000, 29, 115-128.	0.3	133
3	Antimicrobial Use in the Treatment of Calf Diarrhea. <i>Journal of Veterinary Internal Medicine</i> , 2004, 18, 8-17.	0.6	128
4	Hyperchloremic Acidosis: The Classic Example of Strong Ion Acidosis. <i>Anesthesia and Analgesia</i> , 2003, 96, 919-922.	1.1	102
5	Clinical Assessment of Acid-Base Status. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 1999, 15, 447-471.	0.5	94
6	Experimental determination of net protein charge and $\sum K_a$ of nonvolatile buffers in human plasma. <i>Journal of Applied Physiology</i> , 2003, 95, 620-630.	1.2	90
7	Effect of colostrum volume, interval between calving and first milking, and photoperiod on colostrum IgG concentrations in dairy cows. <i>Journal of the American Veterinary Medical Association</i> , 2010, 237, 420-428.	0.2	87
8	Bovine uterine torsion: 164 hospital referral cases. <i>Theriogenology</i> , 1996, 46, 739-758.	0.9	85
9	Comparison of pain and postoperative stress in dogs undergoing natural orifice transluminal endoscopic surgery, laparoscopic, and open oophorectomy. <i>Gastrointestinal Endoscopy</i> , 2010, 72, 373-380.	0.5	73
10	Periparturient effects of feeding a low dietary cation-anion difference diet on acid-base, calcium, and phosphorus homeostasis and on intravenous glucose tolerance test in high-producing dairy cows. <i>Journal of Dairy Science</i> , 2011, 94, 727-745.	1.4	70
11	Effects of Mastitis on the Volume and Composition of Colostrum Produced by Holstein Cows. <i>Journal of Dairy Science</i> , 1998, 81, 1291-1299.	1.4	69
12	Use of a Quantitative Strong Ion Approach to Determine the Mechanism for Acid-Base Abnormalities in Sick Calves with or without Diarrhea. <i>Journal of Veterinary Internal Medicine</i> , 2005, 19, 581.	0.6	67
13	Fluid and electrolyte therapy in ruminants. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2003, 19, 557-597.	0.5	66
14	Treatment of Calf Diarrhea: Antimicrobial and Ancillary Treatments. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2009, 25, 101-120.	0.5	63
15	Treatment of clinical mastitis. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2003, 19, 139-155.	0.5	55
16	Echocardiographic Estimation of Mean Left Atrial Pressure in a Canine Model of Acute Mitral Valve Insufficiency. <i>Journal of Veterinary Internal Medicine</i> , 2004, 18, 667-672.	0.6	54
17	Clinical signs, profound acidemia, hypoglycemia, and hypernatremia are predictive of mortality in 1,400 critically ill neonatal calves with diarrhea. <i>PLoS ONE</i> , 2017, 12, e0182938.	1.1	52
18	Use of a Quantitative Strong Ion Approach to Determine the Mechanism for Acid-Base Abnormalities in Sick Calves with or without Diarrhea. <i>Journal of Veterinary Internal Medicine</i> , 2005, 19, 581-589.	0.6	51

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19	Comparative effects of two oral rehydration solutions on milk clotting, abomasal luminal pH, and abomasal emptying rate in suckling calves. <i>Journal of Dairy Science</i> , 2009, 92, 296-312.	1.4	51
20	Clinical examination of the ruminant nervous system. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2004, 20, 185-214.	0.5	48
21	Acid-Base Assessment. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 2014, 30, 295-316.	0.5	48
22	Comparison of Two Oral Electrolyte Solutions and Route of Administration on the Abomasal Emptying Rate of Holstein-Friesian Calves. <i>Journal of Veterinary Internal Medicine</i> , 2006, 20, 620-626.	0.6	47
23	Experimental Determination of Net Protein Charge and A_{tot} and K_a of Nonvolatile Buffers in Canine Plasma. <i>Journal of Veterinary Internal Medicine</i> , 2005, 19, 507-514.	0.6	43
24	Total weak acid concentration and effective dissociation constant of nonvolatile buffers in human plasma. <i>Journal of Applied Physiology</i> , 2001, 91, 1364-1371.	1.2	41
25	Clinical and Clinicopathological Factors Associated with Survival in 44 Horses with Equine Neorickettsiosis (Potomac Horse Fever). <i>Journal of Veterinary Internal Medicine</i> , 2013, 27, 1528-1534.	0.6	41
26	Calculation of variables describing plasma nonvolatile weak acids for use in the strong ion approach to acid-base balance in cattle. <i>American Journal of Veterinary Research</i> , 2002, 63, 482-490.	0.3	40
27	Neurologic Abnormalities and Cerebrospinal Fluid Changes in Horses Administered Fumonisin B ₁ Intravenously. <i>Journal of Veterinary Internal Medicine</i> , 2004, 18, 223-230.	0.6	40
28	Experimental determination of net protein charge and A_{tot} and K_a of nonvolatile buffers in canine plasma. <i>Journal of Veterinary Internal Medicine</i> , 2005, 19, 507-14.	0.6	40
29	Hyperkalemia in neonatal diarrheic calves depends on the degree of dehydration and the cause of the metabolic acidosis but does not require the presence of acidemia. <i>Journal of Dairy Science</i> , 2013, 96, 7234-7244.	1.4	39
30	Effect of Suckling Cow's Milk or Milk Replacer on Abomasal Luminal pH in Dairy Calves. <i>Journal of Veterinary Internal Medicine</i> , 2005, 19, 97-102.	0.6	38
31	Application of strong ion difference theory to urine and the relationship between urine pH and net acid excretion in cattle. <i>American Journal of Veterinary Research</i> , 2009, 70, 915-925.	0.3	34
32	Clinicopathologic variables associated with hypokalemia in lactating dairy cows with abomasal displacement or volvulus. <i>Journal of the American Veterinary Medical Association</i> , 2013, 242, 826-835.	0.2	34
33	Hyperlipemia and Ketonuria in an Alpaca and a Llama. <i>Journal of Veterinary Internal Medicine</i> , 1994, 8, 207-211.	0.6	33
34	Determinants and Utility of the Anion Gap in Predicting Hyperlactatemia in Cattle. <i>Journal of Veterinary Internal Medicine</i> , 1997, 11, 71-79.	0.6	33
35	Hypertonic Saline. <i>Veterinary Clinics of North America - Food Animal Practice</i> , 1999, 15, 559-585.	0.5	33
36	Serum Amyloid A and Haptoglobin Concentrations and Liver Fat Percentage in Lactating Dairy Cows with Abomasal Displacement. <i>Journal of Veterinary Internal Medicine</i> , 2010, 24, 213-219.	0.6	31

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37	Importance of the Effective Strong Ion Difference of an Intravenous Solution in the Treatment of Diarrheic Calves with Naturally Acquired Acidemia and Strong Ion (Metabolic) Acidosis. <i>Journal of Veterinary Internal Medicine</i> , 2012, 26, 674-683.	0.6	30
38	Plasma calcium concentrations are decreased at least 9 hours before parturition in multiparous Holstein-Friesian cattle in a herd fed an acidogenic diet during late gestation. <i>Journal of Dairy Science</i> , 2018, 101, 1365-1378.	1.4	29
39	Association of California Mastitis Test Scores with Intramammary Infection Status in Lactating Dairy Cows Admitted to a Veterinary Teaching Hospital. <i>Journal of Veterinary Internal Medicine</i> , 2018, 32, 497-505.	0.6	29
40	Use of antimicrobial susceptibility testing of bacterial pathogens isolated from the milk of dairy cows with clinical mastitis to predict response to treatment with cephapirin and oxytetracycline. <i>Journal of the American Veterinary Medical Association</i> , 2002, 221, 103-108.	0.2	28
41	Effect of Rapid Intravenous Administration of 50% Dextrose Solution on Phosphorus Homeostasis in Postparturient Dairy Cows. <i>Journal of Veterinary Internal Medicine</i> , 2006, 20, 1471-1478.	0.6	28
42	Changes in skeletal muscle thickness and echogenicity and plasma creatinine concentration as indicators of protein and intramuscular fat mobilization in periparturient dairy cows. <i>Journal of Dairy Science</i> , 2019, 102, 5550-5565.	1.4	28
43	Ability of milk pH to predict subclinical mastitis and intramammary infection in quarters from lactating dairy cattle. <i>Journal of Dairy Science</i> , 2019, 102, 1417-1427.	1.4	27
44	Phosphorus Homeostasis in Dairy Cows with Abomasal Displacement or Abomasal Volvulus. <i>Journal of Veterinary Internal Medicine</i> , 2005, 19, 894-898.	0.6	26
45	Fumonisin-induced blockade of ceramide synthase in sphingolipid biosynthetic pathway alters aortic input impedance spectrum of pigs. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 284, H2034-H2044.	1.5	25
46	Effect of milking frequency and dosing interval on the pharmacokinetics of cephapirin after intramammary infusion in lactating dairy cows. <i>Journal of Dairy Science</i> , 2009, 92, 4262-4275.	1.4	25
47	Quantitative Physicochemical Analysis of Acid-Base Balance and Clinical Utility of Anion Gap and Strong Ion Gap in 806 Neonatal Calves with Diarrhea. <i>Journal of Veterinary Internal Medicine</i> , 2015, 29, 678-687.	0.6	25
48	Abomasal impaction in Holstein-Friesian cows: 80 cases (1980-2003). <i>Journal of the American Veterinary Medical Association</i> , 2005, 227, 287-291.	0.2	24
49	Clinical Assessment of Left Ventricular Relaxation. <i>Journal of Veterinary Internal Medicine</i> , 1999, 13, 5-13.	0.6	23
50	Clinical utility of calf front hoof circumference and maternal intrapelvic area in predicting dystocia in 103 late gestation Holstein-Friesian heifers and cows. <i>Theriogenology</i> , 2016, 85, 384-395.	0.9	23
51	Intravenous and Oral Fluid Therapy in Neonatal Calves With Diarrhea or Sepsis and in Adult Cattle. <i>Frontiers in Veterinary Science</i> , 2020, 7, 603358.	0.9	23
52	Hemodynamic Effects of Calcium Gluconate Administered to Conscious Horses. <i>Journal of Veterinary Internal Medicine</i> , 1996, 10, 401-404.	0.6	21
53	Effects of Intravenous Hyperosmotic Sodium Bicarbonate on Arterial and Cerebrospinal Fluid Acid-Base Status and Cardiovascular Function in Calves with Experimentally Induced Respiratory and Strong Ion Acidosis. <i>Journal of Veterinary Internal Medicine</i> , 2005, 19, 240-251.	0.6	21
54	Use of the d-Xylose Absorption Test to Measure Abomasal Emptying Rate in Healthy Lactating Holstein-Friesian Cows and in Cows with Left Displaced Abomasum or Abomasal Volvulus. <i>Journal of Veterinary Internal Medicine</i> , 2005, 19, 905-913.	0.6	21

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55	Evaluation of an Electrochemical Point-of-Care Meter for Measuring Glucose Concentration in Blood from Periparturient Dairy Cattle. <i>Journal of Veterinary Internal Medicine</i> , 2015, 29, 1718-1727.	0.6	21
56	Ability of Hematologic and Serum Biochemical Variables to Differentiate Gram-Negative and Gram-Positive Mastitis in Dairy Cows. <i>Journal of Veterinary Internal Medicine</i> , 2001, 15, 394-400.	0.6	18
57	Plasma C-Reactive Protein and Haptoglobin Concentrations in Critically Ill Neonatal Foals. <i>Journal of Veterinary Internal Medicine</i> , 2015, 29, 673-677.	0.6	18
58	Evaluation of 5 methods for diagnosing failure of passive transfer in 160 Holstein calves. <i>Veterinary Clinical Pathology</i> , 2018, 47, 275-283.	0.3	18
59	Prevalence of Endotoxemia in Healthy Postparturient Dairy Cows and Cows with Abomasal Volvulus or Left Displaced Abomasum. <i>Journal of Veterinary Internal Medicine</i> , 2004, 18, 574-580.	0.6	17
60	Hyperkalemia in diarrheic calves: Implications for diagnosis and treatment. <i>Veterinary Journal</i> , 2013, 195, 271-272.	0.6	17
61	Efficacy of oral potassium chloride administration in treating lactating dairy cows with experimentally induced hypokalemia, hypochloremia, and alkalemia. <i>Journal of Dairy Science</i> , 2014, 97, 1413-1426.	1.4	17
62	Effects of syringe type and storage conditions on results of equine blood gas and acid-base analysis. <i>American Journal of Veterinary Research</i> , 2012, 73, 979-987.	0.3	16
63	Stewart Approach Is Not Always a Practical Clinical Tool. <i>Anesthesia and Analgesia</i> , 2004, 98, 271.	1.1	15
64	Effect of Intravenous Small-Volume Hypertonic Sodium Bicarbonate, Sodium Chloride, and Glucose Solutions in Decreasing Plasma Potassium Concentration in Hyperkalemic Neonatal Calves with Diarrhea. <i>Journal of Veterinary Internal Medicine</i> , 2017, 31, 907-921.	0.6	15
65	Evaluation of 2 portable ion-selective electrode meters for determining whole blood, plasma, urine, milk, and abomasal fluid potassium concentrations in dairy cattle. <i>Journal of Dairy Science</i> , 2016, 99, 7330-7343.	1.4	14
66	Electrocardiographic findings in 130 hospitalized neonatal calves with diarrhea and associated potassium balance disorders. <i>Journal of Veterinary Internal Medicine</i> , 2018, 32, 1447-1461.	0.6	14
67	Evaluation and Comparison of 2 On-Farm Tests for Estimating Somatic Cell Count in Quarter Milk Samples from Lactating Dairy Cattle. <i>Journal of Veterinary Internal Medicine</i> , 2018, 32, 506-515.	0.6	13
68	Echocardiographic assessment of left ventricular systolic function in neonatal calves with naturally occurring sepsis or septic shock due to diarrhea. <i>Research in Veterinary Science</i> , 2019, 126, 103-112.	0.9	13
69	Clinical and Immunohistochemical Characterization of Thymic Lymphosarcoma in a Heifer. <i>Journal of Veterinary Internal Medicine</i> , 1996, 10, 275-278.	0.6	12
70	Characterization of the analytic performance of an electrochemical point-of-care meter for measuring Î²-hydroxybutyrate concentration in blood and plasma from periparturient dairy cattle. <i>Veterinary Clinical Pathology</i> , 2017, 46, 314-325.	0.3	12
71	Clinical Utility of Plasma Fructosamine Concentration as a Hypoglycemic Biomarker during Early Lactation in Dairy Cattle. <i>Journal of Veterinary Internal Medicine</i> , 2018, 32, 846-852.	0.6	12
72	Evaluation of handheld sodium, potassium, calcium, and electrical conductivity meters for diagnosing subclinical mastitis and intramammary infection in dairy cattle. <i>Journal of Veterinary Internal Medicine</i> , 2019, 33, 2343-2353.	0.6	12

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73	Evaluation of the analytical performance of a portable ion-selective electrode meter for measuring whole-blood, plasma, milk, abomasal-fluid, and urine sodium concentrations in cattle. <i>Journal of Dairy Science</i> , 2019, 102, 7435-7444.	1.4	12
74	Plasma Adrenomedullin Concentrations in Critically Ill Neonatal Foals. <i>Journal of Veterinary Internal Medicine</i> , 2014, 28, 1294-1300.	0.6	11
75	Effect of suckling cow's milk or milk replacer on abomasal luminal pH in dairy calves. <i>Journal of Veterinary Internal Medicine</i> , 2005, 19, 97-102.	0.6	11
76	Muscle injury and antioxidant status in sled dogs competing in a long-distance sled dog race. <i>Equine and Comparative Exercise Physiology</i> , 2004, 1, 81-85.	0.4	10
77	Comparative pharmacokinetics using a microbiological assay and high performance liquid chromatography following intravenous administration of cefquinome in lactating goats with and without experimentally induced <i>Staphylococcus aureus</i> mastitis. <i>Small Ruminant Research</i> , 2015, 133, 67-76.	0.6	10
78	Effects of profound acidemia on the dynamic glucose and insulin response and plasma potassium and phosphorus concentrations during an intravenous glucose tolerance test in neonatal calves. <i>Journal of Dairy Science</i> , 2017, 100, 9163-9176.	1.4	9
79	Effects of pH and the plasma or serum concentrations of total calcium, chloride, magnesium, lactate, and albumin on the plasma ionized calcium concentration in calves. <i>Journal of Veterinary Internal Medicine</i> , 2019, 33, 1822-1832.	0.6	9
80	Evaluation of 3 esterase tests for the diagnosis of subclinical mastitis at dry-off and freshening in dairy cattle. <i>Journal of Dairy Science</i> , 2019, 102, 1402-1416.	1.4	9
81	Preparation of immunomagnetic beads coupled with a rhodamine hydrazine immunosensor for the detection of <i>Mycobacterium avium</i> subspecies paratuberculosis in bovine feces, milk, and colostrum. <i>Journal of Dairy Science</i> , 2021, 104, 6944-6960.	1.4	9
82	Measurement of urine pH and net acid excretion and their association with urine calcium excretion in periparturient dairy cows. <i>Journal of Dairy Science</i> , 2019, 102, 11370-11383.	1.4	8
83	Factors Related to In-House Agricultural Animal Caseloads in US Veterinary Teaching Hospitals. <i>Journal of Veterinary Internal Medicine</i> , 2002, 16, 7-11.	0.6	6
84	Effect of the size of evacuated blood collection tubes on total carbon dioxide concentration in equine plasma. <i>Journal of the American Veterinary Medical Association</i> , 2012, 241, 922-926.	0.2	6
85	Effect of body position on electrocardiographic recordings in dogs. <i>Australian Veterinary Journal</i> , 2013, 91, 281-286.	0.5	6
86	Evaluation of a point-of-care electrochemical meter to detect subclinical ketosis and hypoglycaemia in lactating dairy cows. <i>Australian Veterinary Journal</i> , 2017, 95, 123-128.	0.5	6
87	Clinical utility of urine specific gravity, electrical conductivity, and color as on-farm methods for evaluating urine concentration in dairy cattle. <i>Journal of Veterinary Internal Medicine</i> , 2019, 33, 1530-1539.	0.6	6
88	Clinical utility of plasma progesterone and blood and plasma glucose concentrations in predicting parturition in Holstein cows. <i>Journal of Dairy Science</i> , 2020, 103, 5575-5590.	1.4	6
89	Effect of Orally Administered Cisapride, Bethanechol, and Erythromycin on the Apparent Efficiency of Colostral IgG Absorption in Neonatal Holstein-Friesian Calves. <i>Journal of Veterinary Internal Medicine</i> , 2015, 29, 714-720.	0.6	5
90	Evaluation of a portable ion-selective electrode meter for measuring potassium concentrations in whole blood and plasma of calves. <i>Veterinary Journal</i> , 2018, 238, 10-14.	0.6	5

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91	Pharmacokinetics and pharmacodynamics of intramammary cefquinome in lactating goats with and without experimentally induced <i>Staphylococcus aureus</i> mastitis. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 2019, 42, 452-460.	0.6	5
92	The effect of age and sex on selected hematologic and serum biochemical analytes in 4,804 elite endurance-trained sled dogs participating in the Iditarod Trail Sled Dog Race pre-race examination program. <i>PLoS ONE</i> , 2020, 15, e0237706.	1.1	4
93	Dependence of the apparent bicarbonate space on initial plasma bicarbonate concentration and carbon dioxide tension in neonatal calves with diarrhea, acidemia, and metabolic acidosis. <i>Journal of Veterinary Internal Medicine</i> , 2021, 35, 644-654.	0.6	3
94	Clinical signs and outcomes of beef cattle undergoing cesarean section because of dystocia. <i>Journal of the American Veterinary Medical Association</i> , 2018, 252, 864-872.	0.2	2
95	Effect of spiramycin and tulathromycin on abomasal emptying rate in milk-fed calves. <i>Canadian Journal of Veterinary Research</i> , 2014, 78, 61-7.	0.2	2
96	Comparison of two analyzers for measurement of plasma total carbon dioxide concentration in horses. <i>American Journal of Veterinary Research</i> , 2013, 74, 1091-1102.	0.3	1
97	Effect of antepartum vitamin D3 (cholecalciferol) and postpartum oral calcium administration on serum total calcium concentration in Holstein cows fed an acidogenic diet in late gestation. <i>Research in Veterinary Science</i> , 2021, 136, 239-246.	0.9	1
98	Technical note: Evaluation of a colorimetric point-of-care test for measuring urine ammonium concentration in periparturient dairy cattle. <i>Journal of Dairy Science</i> , 2020, 103, 8655-8660.	1.4	1
99	Effects of omeprazole and pantoprazole on immunoglobulin G absorption in the newborn calves. <i>Comparative Clinical Pathology</i> , 2014, 23, 33-37.	0.3	0
100	Comparison of selected serum biochemistry measurements between the Nova Prime Plus VET, Nova pHox Ultra, and Beckman Coulter AU680 analyzers in dogs. <i>Veterinary Clinical Pathology</i> , 2021, 50, 327-341.	0.3	0
101	Evaluation of a point-of-care benchtop analyzer for quantitative measurement of C-reactive protein in canine serum and plasma. <i>Veterinary Clinical Pathology</i> , 2022, , .	0.3	0