JÃ¶rg R Aschenbach

List of Publications by Year
in descending order

86 papers	2,781 citations	201385 27 h-index	189595 50 g-index
88 all docs	88 docs citations	88 times ranked	3015 citing authors

#	Article	IF	Citations
1	Dietary methionine source alters the lipidome in the small intestinal epithelium of pigs. Scientific Reports, 2022, 12, 4863.	1.6	0
2	Paracellular intestinal permeability of chickens induced by DON and/or C. jejuni is associated with alterations in tight junction mRNA expression. Microbial Pathogenesis, 2022, 168, 105509.	1.3	6
3	Menthol stimulates calcium absorption in the rumen but not in the jejunum of sheep. Journal of Dairy Science, 2021, 104, 3067-3081.	1.4	7
4	Establishment of a novel probe-based RT-qPCR approach for detection and quantification of tight junctions reveals age-related changes in the gut barriers of broiler chickens. PLoS ONE, 2021, 16, e0248165.	1.1	13
5	Changes in the Relationship between Ionized and Total Calcium in Clinically Healthy Dairy Cows in the Period around Calving. Animals, 2021, 11, 1036.	1.0	6
6	The Combined Influence of Magnesium and Insulin on Central Metabolic Functions and Expression of Genes Involved in Magnesium Homeostasis of Cultured Bovine Adipocytes. International Journal of Molecular Sciences, 2021, 22, 5897.	1.8	7
7	Expression of glucose and magnesium transport-associated genes in whole blood RNA of lactating ewes supplemented with magnesium. Livestock Science, 2021, 250, 104583.	0.6	0
8	Expression of proposed methionine transporters along the gastrointestinal tract of pigs and their regulation by dietary methionine sources. Genes and Nutrition, 2021, 16, 14.	1.2	3
9	Growth Performance, Eating Behavior, Digestibility, Blood Metabolites, and Carcass Traits in Growing-Finishing Fat-Tailed Lambs Fed Different Levels of Dietary Neutral Detergent Fiber with High Rumen Undegradable Protein. Agriculture (Switzerland), 2021, 11, 1101.	1.4	5
10	Effects of dietary oil sources (sunflower and fish) on fermentation characteristics, epithelial gene expression and microbial community in the rumen of lambs fed a high-concentrate diet. Archives of Animal Nutrition, 2021, 75, 405-421.	0.9	3
11	Characterization and differentiation potential of mesenchymal stem cells isolated from multiple canine adipose tissue sources. BMC Veterinary Research, 2021, 17, 388.	0.7	16
12	Inflammatory Responses of Porcine MoDC and Intestinal Epithelial Cells in a Direct-Contact Co-culture System Following a Bacterial Challenge. Inflammation, 2020, 43, 552-567.	1.7	4
13	Effects of lipopolysaccharide exposure in primary bovine ruminal epithelial cells. Journal of Dairy Science, 2020, 103, 9587-9603.	1.4	28
14	Functional Changes of the Community of Microbes With Ni-Dependent Enzyme Genes Accompany Adaptation of the Ruminal Microbiome to Urea-Supplemented Diets. Frontiers in Microbiology, 2020, 11, 596681.	1.5	4
15	Dietary Mg2+ Intake and the Na+/Mg2+ Exchanger SLC41A1 Influence Components of Mitochondrial Energetics in Murine Cardiomyocytes. International Journal of Molecular Sciences, 2020, 21, 8221.	1.8	4
16	Dietary Supplementation of á´…ÊŸ-Methionine Potently Induces Sodium-Dependent ÊŸ-Methionine Absorption in Porcine Jejunum Ex Vivo. Journal of Nutrition, 2020, 150, 1782-1789.	1.3	5
17	Optimizing adipogenic transdifferentiation of bovine mesenchymal stem cells: a prominent role of ascorbic acid in FABP4 induction. Adipocyte, 2020, 9, 35-50.	1.3	15
18	Effects of glucagonâ€like peptides 1 and 2 and epidermal growth factor on the epithelial barrier of the rumen of adult sheep. Journal of Animal Physiology and Animal Nutrition, 2019, 103, 1727-1738.	1.0	1

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19	Dietary supplementation of menthol-rich bioactive lipid compounds alters circadian eating behaviour of sheep. BMC Veterinary Research, 2019, 15, 352.	0.7	12
20	Dietary Bioactive Lipid Compounds Rich in Menthol Alter Interactions Among Members of Ruminal Microbiota in Sheep. Frontiers in Microbiology, 2019, 10, 2038.	1.5	18
21	Cholera toxin perturbs the paracellular barrier in the small intestinal epithelium of rats by affecting claudin-2 and tricellulin. Pflugers Archiv European Journal of Physiology, 2019, 471, 1183-1189.	1.3	6
22	Normal Values for Parotid Gland and Submandibular-Sublingual Salivary Gland Complex Uptake of 99mTechnetium Pertechnetate using SPECT in Mice with Respect to Age, Sex, and Circadian Rhythm. Nuklearmedizin - NuclearMedicine, 2019, 58, 39-49.	0.3	1
23	Transcriptomic analyses suggest a dominant role of insulin in the coordinated control of energy metabolism and ureagenesis in goat liver. BMC Genomics, 2019, 20, 854.	1.2	4
24	Effects of dietary menthol-rich bioactive lipid compounds on zootechnical traits, blood variables and gastrointestinal function in growing sheep. Journal of Animal Science and Biotechnology, 2019, 10, 86.	2.1	19
25	Symposium review: The importance of the ruminal epithelial barrier for a healthy and productive cow. Journal of Dairy Science, 2019, 102, 1866-1882.	1.4	90
26	Effect of individual SCFA on the epithelial barrier of sheep rumen under physiological and acidotic luminal pH conditions. Journal of Animal Science, 2018, 96, 126-142.	0.2	27
27	The Inflammatory Response to Enterotoxigenic E. coli and Probiotic E. faecium in a Coculture Model of Porcine Intestinal Epithelial and Dendritic Cells. Mediators of Inflammation, 2018, 2018, 1-16.	1.4	16
28	Overexpression of the mitochondrial Mg channel MRS2 increases total cellular Mg concentration and influences sensitivity to apoptosis. Metallomics, 2018, 10, 917-928.	1.0	21
29	Effects of a pathogenic ETEC strain and a probiotic Enterococcus faecium strain on the inflammasome response in porcine dendritic cells. Veterinary Immunology and Immunopathology, 2018, 203, 78-87.	0.5	11
30	Effects of a combination of plant bioactive lipid compounds and biotin compared with monensin on body condition, energy metabolism and milk performance in transition dairy cows. PLoS ONE, 2018, 13, e0193685.	1.1	25
31	Overexpression of Na+/Mg2+ exchanger SLC41A1 attenuates pro-survival signaling. Oncotarget, 2018, 9, 5084-5104.	0.8	18
32	Normal Values of Thyroid Uptake of 99mTechnetium Pertechnetate SPECT in Mice with Respect to Age, Sex, and Circadian Rhythm. Nuklearmedizin - NuclearMedicine, 2018, 57, 181-189.	0.3	7
33	Effects of combined supplementation with plant bioactive lipid compounds and biotin on ruminal fermentation, body condition and energy metabolism in transition dairy cows. Animal Feed Science and Technology, 2017, 225, 27-37.	1.1	21
34	The GadX regulon affects virulence gene expression and adhesion of porcine enteropathogenic Escherichia coli in vitro. Veterinary and Animal Science, 2017, 3, 10-17.	0.6	5
35	Key role of short-chain fatty acids in epithelial barrier failure during ruminal acidosis. Journal of Dairy Science, 2017, 100, 6662-6675.	1.4	35
36	The epithelial barrier and beyond: Claudins as amplifiers of physiological organ functions. IUBMB Life, 2017, 69, 290-296.	1.5	23

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37	Effects of Ex Vivo Infection with ETEC on Jejunal Barrier Properties and Cytokine Expression in Probiotic-Supplemented Pigs. Digestive Diseases and Sciences, 2017, 62, 922-933.	1.1	17
38	Influence of Bovine Serum Lipids and Fetal Bovine Serum on the Expression of Cell Surface Markers in Cultured Bovine Preadipocytes. Cells Tissues Organs, 2017, 204, 13-24.	1.3	11
39	Characterization of Inflammasome Components in Pig Intestine and Analysis of the Influence of Probiotic Enterococcus Faecium during an Escherichia Coli Challenge. Immunological Investigations, 2017, 46, 742-757.	1.0	12
40	Altered Cytokine Expression and Barrier Properties after In Vitro Infection of Porcine Epithelial Cells with EnterotoxigenicEscherichia coliand ProbioticEnterococcus faecium. Mediators of Inflammation, 2017, 2017, 1-13.	1.4	13
41	Finishing pigs that are divergent in feed efficiency show small differences in intestinal functionality and structure. PLoS ONE, 2017, 12, e0174917.	1.1	32
42	Evidence of In Vivo Absorption of Lactate and Modulation of Short Chain Fatty Acid Absorption from the Reticulorumen of Non-Lactating Cattle Fed High Concentrate Diets. PLoS ONE, 2016, 11, e0164192.	1.1	42
43	Both monensin and plant extract alter ruminal fermentation in sheep but only monensin affects the expression of genes involved in acid-base transport of the ruminal epithelium. Animal Feed Science and Technology, 2016, 219, 132-143.	1.1	41
44	Gastrointestinal methionine shuttle: Priority handling of precious goods. IUBMB Life, 2016, 68, 924-934.	1.5	30
45	Solute carrier 41A3 encodes for a mitochondrial Mg2+ efflux system. Scientific Reports, 2016, 6, 27999.	1.6	44
46	Human CNNM2 is not a Mg2+ transporter per se. Pflugers Archiv European Journal of Physiology, 2016, 468, 1223-1240.	1.3	38
47	Acidic pH and short-chain fatty acids activate Na+ transport but differentially modulate expression of Na+/H+ exchanger isoforms 1, 2, and 3 in omasal epithelium. Journal of Dairy Science, 2016, 99, 733-745.	1.4	12
48	GABA selectively increases mucin-1 expression in isolated pig jejunum. Genes and Nutrition, 2015, 10, 47.	1.2	19
49	PARK7/DJ-1 dysregulation by oxidative stress leads to magnesium deficiency: implications in degenerative and chronic diseases. Clinical Science, 2015, 129, 1143-1150.	1.8	30
50	Dose Effects of Apical versus Basolateral Zinc Supplementation on Epithelial Resistance, Viability, and Metallothionein Expression in Two Intestinal Epithelial Cell Lines. Journal of Biochemical and Molecular Toxicology, 2015, 29, 410-417.	1.4	5
51	Effects of the ProbioticEnterococcus faeciumand PathogenicEscherichia coliStrains in a Pig and Human Epithelial Intestinal Cell Model. Scientifica, 2015, 2015, 1-10.	0.6	25
52	Enterococcus faeciumNCIMB 10415 Modulates Epithelial Integrity, Heat Shock Protein, and Proinflammatory Cytokine Response in Intestinal Cells. Mediators of Inflammation, 2015, 2015, 1-11.	1.4	32
53	Campylobacter infection in chickens modulates the intestinal epithelial barrier function. Innate Immunity, 2015, 21, 151-160.	1.1	91
54	Short-chain fatty acids and acidic pH upregulate UT-B, GPR41, and GPR4 in rumen epithelial cells of goats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2015, 308, R283-R293.	0.9	45

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55	Down-regulation of monocarboxylate transporter 1 (MCT1) gene expression in the colon of piglets is linked to bacterial protein fermentation and pro-inflammatory cytokine-mediated signalling. British Journal of Nutrition, 2015, 113, 610-617.	1.2	85
56	Claudin clusters as determinants of epithelial barrier function. IUBMB Life, 2015, 67, 29-35.	1.5	66
57	Relaxin-2 Does Not Ameliorate Nephropathy in an Experimental Model of Type-1 Diabetes. Kidney and Blood Pressure Research, 2015, 40, 77-88.	0.9	15
58	Increased intracellular calcium level and impaired nutrient absorption are important pathogenicity traits in the chicken intestinal epithelium during Campylobacter jejuni colonization. Applied Microbiology and Biotechnology, 2015, 99, 6431-6441.	1.7	40
59	Regulation of intracellular Zn homeostasis in two intestinal epithelial cell models at various maturation time points. Journal of Physiological Sciences, 2015, 65, 317-328.	0.9	16
60	Insulin Modulates the Na+/Mg2+ Exchanger SLC41A1 and Influences Mg2+ Efflux from Intracellular Stores in Transgenic HEK293 Cells. Journal of Nutrition, 2015, 145, 2440-2447.	1.3	23
61	Modulation of sheep ruminal urea transport by ammonia and pH. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2014, 307, R558-R570.	0.9	39
62	Epithelia of the ovine and bovine forestomach express basolateral maxi-anion channels permeable to the anions of short-chain fatty acids. Pflugers Archiv European Journal of Physiology, 2014, 466, 1689-1712.	1.3	23
63	Campylobacter jejuni influences the expression of nutrient transporter genes in the intestine of chickens. Veterinary Microbiology, 2014, 172, 195-201.	0.8	43
64	In Vitro Exposure to Escherichia coli Decreases Ion Conductance in the Jejunal Epithelium of Broiler Chickens. PLoS ONE, 2014, 9, e92156.	1.1	11
65	Increased papillae growth and enhanced short-chain fatty acid absorption in the rumen of goats are associated with transient increases in cyclin D1 expression after ruminal butyrate infusion. Journal of Dairy Science, 2013, 96, 7603-7616.	1.4	107
66	Intravenous infusions of glucose stimulate key lipogenic enzymes in adipose tissue of dairy cows in a dose-dependent manner. Journal of Dairy Science, 2013, 96, 4299-4309.	1.4	8
67	Diets High in Heat-Treated Soybean Meal Reduce the Histamine-Induced Epithelial Response in the Colon of Weaned Piglets and Increase Epithelial Catabolism of Histamine. PLoS ONE, 2013, 8, e80612.	1.1	16
68	Microbial butyrate and its role for barrier function in the gastrointestinal tract. Annals of the New York Academy of Sciences, 2012, 1258, 52-59.	1.8	329
69	A diet naturally contaminated with the Fusarium mycotoxin deoxynivalenol (DON) downregulates gene expression of glucose transporters in the intestine of broiler chickens. Livestock Science, 2011, 140, 72-79.	0.6	47
70	Gluconeogenesis in dairy cows: The secret of making sweet milk from sour dough. IUBMB Life, 2010, 62, 869-877.	1.5	338
71	Bicarbonate-dependent and bicarbonate-independent mechanisms contribute to nondiffusive uptake of acetate in the ruminal epithelium of sheep. American Journal of Physiology - Renal Physiology, 2009, 296, G1098-G1107.	1.6	84
72	Epithelial Capacity for Apical Uptake of Short Chain Fatty Acids Is a Key Determinant for Intraruminal pH and the Susceptibility to Subacute Ruminal Acidosis in Sheep ,. Journal of Nutrition, 2009, 139, 1714-1720.	1.3	138

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73	Cultured ruminal epithelial cells express a large-conductance channel permeable to chloride, bicarbonate, and acetate. Pflugers Archiv European Journal of Physiology, 2009, 457, 1003-1022.	1.3	32
74	LC Analysis of Histamine and Other Biogenic Amines in Digesta Cultures. Chromatographia, 2009, 70, 1207-1213.	0.7	3
75	Functional characteristics of the porcine colonic epithelium following transportation stress andSalmonellainfection. Scandinavian Journal of Gastroenterology, 2007, 42, 708-716.	0.6	13
76	Histamine inactivation in the colon of pigs in relationship to abundance of catabolic enzymes. Scandinavian Journal of Gastroenterology, 2006, 41, 712-719.	0.6	12
77	High-performance liquid chromatographic method for the determination of histamine and 1-methylhistamine in biological buffers. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 844, 335-339.	1.2	11
78	Adrenoceptor heterogeneity in the ruminal epithelium of sheep. Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology, 2005, 175, 249-255.	0.7	1
79	Apical sodiumâ€“glucose co-transport can be regulated by blood-borne glucose in the ruminal epithelium of sheep (Ovis aries, Merino breed). British Journal of Nutrition, 2004, 92, 777-783.	1.2	4
80	Age-associated plasticity in the intrinsic innervation of the ovine rumen. Journal of Anatomy, 2003, 203, 277-282.	0.9	15
81	Transport of ketone bodies and lactate in the sheep ruminal epithelium by monocarboxylate transporter 1. American Journal of Physiology - Renal Physiology, 2002, 283, G1139-G1146.	1.6	92
82	Glucose Uptake via SGLT-1 Is Stimulated by Î²2-Adrenoceptors in the Ruminal Epithelium of Sheep. Journal of Nutrition, 2002, 132, 1254-1257.	1.3	49
83	Paracellular tightness and catabolism restrict histamine permeation in the proximal colon of pigs. Pflugers Archiv European Journal of Physiology, 2002, 445, 115-122.	1.3	6
84	Transport, catabolism and release of histamine in the ruminal epithelium of sheep. Pflugers Archiv European Journal of Physiology, 2000, 440, 171-178.	1.3	29
85	Functional and molecular biological evidence of SGLT-1 in the ruminal epithelium of sheep. American Journal of Physiology - Renal Physiology, 2000, 279, G20-G27.	1.6	38
86	Transport, catabolism and release of histamine in the ruminal epithelium of sheep. Pflugers Archiv European Journal of Physiology, 2000, 440, 171.	1.3	1