

Jörg R Aschenbach

List of Publications by Year in descending order

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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	Gluconeogenesis in dairy cows: The secret of making sweet milk from sour dough. <i>IUBMB Life</i> , 2010, 62, 869-877.	1.5	338
2	Microbial butyrate and its role for barrier function in the gastrointestinal tract. <i>Annals of the New York Academy of Sciences</i> , 2012, 1258, 52-59.	1.8	329
3	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. <i>Journal of Nutrition</i> , 2009, 139, 1714-1720.	1.3	138
4	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. <i>Journal of Dairy Science</i> , 2013, 96, 7603-7616.	1.4	107
5	Transport of ketone bodies and lactate in the sheep ruminal epithelium by monocarboxylate transporter 1. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, G1139-G1146.	1.6	92
6	<i>Campylobacter</i> infection in chickens modulates the intestinal epithelial barrier function. <i>Innate Immunity</i> , 2015, 21, 151-160.	1.1	91
7	Symposium review: The importance of the ruminal epithelial barrier for a healthy and productive cow. <i>Journal of Dairy Science</i> , 2019, 102, 1866-1882.	1.4	90
8	Down-regulation of monocarboxylate transporter 1 (<i>MCT1</i>) gene expression in the colon of piglets is linked to bacterial protein fermentation and pro-inflammatory cytokine-mediated signalling. <i>British Journal of Nutrition</i> , 2015, 113, 610-617.	1.2	85
9	Bicarbonate-dependent and bicarbonate-independent mechanisms contribute to nondiffusive uptake of acetate in the ruminal epithelium of sheep. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G1098-G1107.	1.6	84
10	Claudin clusters as determinants of epithelial barrier function. <i>IUBMB Life</i> , 2015, 67, 29-35.	1.5	66
11	Glucose Uptake via SGLT-1 Is Stimulated by β^2 -Adrenoceptors in the Ruminal Epithelium of Sheep. <i>Journal of Nutrition</i> , 2002, 132, 1254-1257.	1.3	49
12	A diet naturally contaminated with the <i>Fusarium</i> mycotoxin deoxynivalenol (DON) downregulates gene expression of glucose transporters in the intestine of broiler chickens. <i>Livestock Science</i> , 2011, 140, 72-79.	0.6	47
13	Short-chain fatty acids and acidic pH upregulate UT-B, GPR41, and GPR4 in rumen epithelial cells of goats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 308, R283-R293.	0.9	45
14	Solute carrier 41A3 encodes for a mitochondrial Mg ²⁺ efflux system. <i>Scientific Reports</i> , 2016, 6, 27999.	1.6	44
15	<i>Campylobacter jejuni</i> influences the expression of nutrient transporter genes in the intestine of chickens. <i>Veterinary Microbiology</i> , 2014, 172, 195-201.	0.8	43
16	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. <i>PLoS ONE</i> , 2016, 11, e0164192.	1.1	42
17	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. <i>Animal Feed Science and Technology</i> , 2016, 219, 132-143.	1.1	41
18	Increased intracellular calcium level and impaired nutrient absorption are important pathogenicity traits in the chicken intestinal epithelium during <i>Campylobacter jejuni</i> colonization. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 6431-6441.	1.7	40

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19	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
20	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
21	Human CNNM2 is not a Mg ²⁺ transporter per se. Pflugers Archiv European Journal of Physiology, 2016, 468, 1223-1240.	1.3	38
22	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
23	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
24	<i>Enterococcus faecium</i> NCIMB 10415 Modulates Epithelial Integrity, Heat Shock Protein, and Proinflammatory Cytokine Response in Intestinal Cells. Mediators of Inflammation, 2015, 2015, 1-11.	1.4	32
25	Finishing pigs that are divergent in feed efficiency show small differences in intestinal functionality and structure. PLoS ONE, 2017, 12, e0174917.	1.1	32
26	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
27	Gastrointestinal methionine shuttle: Priority handling of precious goods. IUBMB Life, 2016, 68, 924-934.	1.5	30
28	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
29	Effects of lipopolysaccharide exposure in primary bovine ruminal epithelial cells. Journal of Dairy Science, 2020, 103, 9587-9603.	1.4	28
30	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
31	Effects of the Probiotic <i>Enterococcus faecium</i> and Pathogenic <i>Escherichia coli</i> Strains in a Pig and Human Epithelial Intestinal Cell Model. Scientifica, 2015, 2015, 1-10.	0.6	25
32	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
33	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
34	Insulin Modulates the Na ⁺ /Mg ²⁺ Exchanger SLC41A1 and Influences Mg ²⁺ Efflux from Intracellular Stores in Transgenic HEK293 Cells. Journal of Nutrition, 2015, 145, 2440-2447.	1.3	23
35	The epithelial barrier and beyond: Claudins as amplifiers of physiological organ functions. IUBMB Life, 2017, 69, 290-296.	1.5	23
36	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

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37	Overexpression of the mitochondrial Mg channel MRS2 increases total cellular Mg concentration and influences sensitivity to apoptosis. <i>Metallomics</i> , 2018, 10, 917-928.	1.0	21
38	GABA selectively increases mucin-1 expression in isolated pig jejunum. <i>Genes and Nutrition</i> , 2015, 10, 47.	1.2	19
39	Effects of dietary menthol-rich bioactive lipid compounds on zootechnical traits, blood variables and gastrointestinal function in growing sheep. <i>Journal of Animal Science and Biotechnology</i> , 2019, 10, 86.	2.1	19
40	Dietary Bioactive Lipid Compounds Rich in Menthol Alter Interactions Among Members of Ruminal Microbiota in Sheep. <i>Frontiers in Microbiology</i> , 2019, 10, 2038.	1.5	18
41	Overexpression of Na ⁺ /Mg ²⁺ exchanger SLC41A1 attenuates pro-survival signaling. <i>Oncotarget</i> , 2018, 9, 5084-5104.	0.8	18
42	Effects of Ex Vivo Infection with ETEC on Jejunal Barrier Properties and Cytokine Expression in Probiotic-Supplemented Pigs. <i>Digestive Diseases and Sciences</i> , 2017, 62, 922-933.	1.1	17
43	Regulation of intracellular Zn homeostasis in two intestinal epithelial cell models at various maturation time points. <i>Journal of Physiological Sciences</i> , 2015, 65, 317-328.	0.9	16
44	The Inflammatory Response to Enterotoxigenic <i>E. coli</i> and Probiotic <i>E. faecium</i> in a Coculture Model of Porcine Intestinal Epithelial and Dendritic Cells. <i>Mediators of Inflammation</i> , 2018, 2018, 1-16.	1.4	16
45	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. <i>PLoS ONE</i> , 2013, 8, e80612.	1.1	16
46	Characterization and differentiation potential of mesenchymal stem cells isolated from multiple canine adipose tissue sources. <i>BMC Veterinary Research</i> , 2021, 17, 388.	0.7	16
47	Age-associated plasticity in the intrinsic innervation of the ovine rumen. <i>Journal of Anatomy</i> , 2003, 203, 277-282.	0.9	15
48	Relaxin-2 Does Not Ameliorate Nephropathy in an Experimental Model of Type-1 Diabetes. <i>Kidney and Blood Pressure Research</i> , 2015, 40, 77-88.	0.9	15
49	Optimizing adipogenic transdifferentiation of bovine mesenchymal stem cells: a prominent role of ascorbic acid in FABP4 induction. <i>Adipocyte</i> , 2020, 9, 35-50.	1.3	15
50	Functional characteristics of the porcine colonic epithelium following transportation stress and Salmonella infection. <i>Scandinavian Journal of Gastroenterology</i> , 2007, 42, 708-716.	0.6	13
51	Altered Cytokine Expression and Barrier Properties after In Vitro Infection of Porcine Epithelial Cells with Enterotoxigenic <i>Escherichia coli</i> and Probiotic <i>Enterococcus faecium</i> . <i>Mediators of Inflammation</i> , 2017, 2017, 1-13.	1.4	13
52	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. <i>PLoS ONE</i> , 2021, 16, e0248165.	1.1	13
53	Histamine inactivation in the colon of pigs in relationship to abundance of catabolic enzymes. <i>Scandinavian Journal of Gastroenterology</i> , 2006, 41, 712-719.	0.6	12
54	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. <i>Journal of Dairy Science</i> , 2016, 99, 733-745.	1.4	12

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55	Characterization of Inflammasome Components in Pig Intestine and Analysis of the Influence of Probiotic Enterococcus Faecium during an Escherichia Coli Challenge. <i>Immunological Investigations</i> , 2017, 46, 742-757.	1.0	12
56	Dietary supplementation of menthol-rich bioactive lipid compounds alters circadian eating behaviour of sheep. <i>BMC Veterinary Research</i> , 2019, 15, 352.	0.7	12
57	High-performance liquid chromatographic method for the determination of histamine and 1-methylhistamine in biological buffers. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006, 844, 335-339.	1.2	11
58	Influence of Bovine Serum Lipids and Fetal Bovine Serum on the Expression of Cell Surface Markers in Cultured Bovine Preadipocytes. <i>Cells Tissues Organs</i> , 2017, 204, 13-24.	1.3	11
59	Effects of a pathogenic ETEC strain and a probiotic Enterococcus faecium strain on the inflammasome response in porcine dendritic cells. <i>Veterinary Immunology and Immunopathology</i> , 2018, 203, 78-87.	0.5	11
60	In Vitro Exposure to Escherichia coli Decreases Ion Conductance in the Jejunal Epithelium of Broiler Chickens. <i>PLoS ONE</i> , 2014, 9, e92156.	1.1	11
61	Intravenous infusions of glucose stimulate key lipogenic enzymes in adipose tissue of dairy cows in a dose-dependent manner. <i>Journal of Dairy Science</i> , 2013, 96, 4299-4309.	1.4	8
62	Menthol stimulates calcium absorption in the rumen but not in the jejunum of sheep. <i>Journal of Dairy Science</i> , 2021, 104, 3067-3081.	1.4	7
63	The Combined Influence of Magnesium and Insulin on Central Metabolic Functions and Expression of Genes Involved in Magnesium Homeostasis of Cultured Bovine Adipocytes. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5897.	1.8	7
64	Normal Values of Thyroid Uptake of 99mTechnetium Pertechnetate SPECT in Mice with Respect to Age, Sex, and Circadian Rhythm. <i>Nuklearmedizin - NuclearMedicine</i> , 2018, 57, 181-189.	0.3	7
65	Paracellular tightness and catabolism restrict histamine permeation in the proximal colon of pigs. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 445, 115-122.	1.3	6
66	Cholera toxin perturbs the paracellular barrier in the small intestinal epithelium of rats by affecting claudin-2 and tricellulin. <i>Pflügers Archiv European Journal of Physiology</i> , 2019, 471, 1183-1189.	1.3	6
67	Changes in the Relationship between Ionized and Total Calcium in Clinically Healthy Dairy Cows in the Period around Calving. <i>Animals</i> , 2021, 11, 1036.	1.0	6
68	Paracellular intestinal permeability of chickens induced by DON and/or C. jejuni is associated with alterations in tight junction mRNA expression. <i>Microbial Pathogenesis</i> , 2022, 168, 105509.	1.3	6
69	Dose Effects of Apical versus Basolateral Zinc Supplementation on Epithelial Resistance, Viability, and Metallothionein Expression in Two Intestinal Epithelial Cell Lines. <i>Journal of Biochemical and Molecular Toxicology</i> , 2015, 29, 410-417.	1.4	5
70	The GadX regulon affects virulence gene expression and adhesion of porcine enteropathogenic Escherichia coli in vitro. <i>Veterinary and Animal Science</i> , 2017, 3, 10-17.	0.6	5
71	Dietary Supplementation of L-Methionine Potently Induces Sodium-Dependent L-Methionine Absorption in Porcine Jejunum Ex Vivo. <i>Journal of Nutrition</i> , 2020, 150, 1782-1789.	1.3	5
72	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. <i>Agriculture (Switzerland)</i> , 2021, 11, 1101.	1.4	5

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73	Apical sodium-glucose co-transport can be regulated by blood-borne glucose in the ruminal epithelium of sheep (<i>Ovis aries</i> , Merino breed). <i>British Journal of Nutrition</i> , 2004, 92, 777-783.	1.2	4
74	Transcriptomic analyses suggest a dominant role of insulin in the coordinated control of energy metabolism and ureagenesis in goat liver. <i>BMC Genomics</i> , 2019, 20, 854.	1.2	4
75	Inflammatory Responses of Porcine MoDC and Intestinal Epithelial Cells in a Direct-Contact Co-culture System Following a Bacterial Challenge. <i>Inflammation</i> , 2020, 43, 552-567.	1.7	4
76	Functional Changes of the Community of Microbes With Ni-Dependent Enzyme Genes Accompany Adaptation of the Ruminal Microbiome to Urea-Supplemented Diets. <i>Frontiers in Microbiology</i> , 2020, 11, 596681.	1.5	4
77	Dietary Mg ²⁺ Intake and the Na ⁺ /Mg ²⁺ Exchanger SLC41A1 Influence Components of Mitochondrial Energetics in Murine Cardiomyocytes. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8221.	1.8	4
78	LC Analysis of Histamine and Other Biogenic Amines in Digesta Cultures. <i>Chromatographia</i> , 2009, 70, 1207-1213.	0.7	3
79	Expression of proposed methionine transporters along the gastrointestinal tract of pigs and their regulation by dietary methionine sources. <i>Genes and Nutrition</i> , 2021, 16, 14.	1.2	3
80	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. <i>Archives of Animal Nutrition</i> , 2021, 75, 405-421.	0.9	3
81	Adrenoceptor heterogeneity in the ruminal epithelium of sheep. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2005, 175, 249-255.	0.7	1
82	Effects of glucagon-like peptides 1 and 2 and epidermal growth factor on the epithelial barrier of the rumen of adult sheep. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2019, 103, 1727-1738.	1.0	1
83	Normal Values for Parotid Gland and Submandibular-Sublingual Salivary Gland Complex Uptake of ^{99m} Techneium Pertechnetate using SPECT in Mice with Respect to Age, Sex, and Circadian Rhythm. <i>Nuklearmedizin - NuclearMedicine</i> , 2019, 58, 39-49.	0.3	1
84	Transport, catabolism and release of histamine in the ruminal epithelium of sheep. <i>Pflugers Archiv European Journal of Physiology</i> , 2000, 440, 171.	1.3	1
85	Expression of glucose and magnesium transport-associated genes in whole blood RNA of lactating ewes supplemented with magnesium. <i>Livestock Science</i> , 2021, 250, 104583.	0.6	0
86	Dietary methionine source alters the lipidome in the small intestinal epithelium of pigs. <i>Scientific Reports</i> , 2022, 12, 4863.	1.6	0