Steven J Van Cruchten

List of Publications by Year
in descending order

72	1,817	331670 21	289244 40
papers	citations	h-index	g-index

78	78	78	2461
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preweaning performance in intrauterine growthâ€restricted piglets: Characteristics and interventions. Molecular Reproduction and Development, 2023, 90, 697-707.	2.0	4
2	Drenching Bovine Colostrum, Quercetin or Fructo-Oligosaccharides Has No Effect on Health or Survival of Low Birth Weight Piglets. Animals, 2022, 12, 55.	2.3	4
3	In vitro biotransformation of proteratogens in different laboratory animal models, including the zebrafish. Reproductive Toxicology, 2021, 99, 132-133.	2.9	0
4	Handling Associated with Drenching Does Not Impact Survival and General Health of Low Birth Weight Piglets. Animals, 2021, 11, 404.	2.3	8
5	Low birth weight female piglets show altered intestinal development, gene expression, and epigenetic changes at key developmental loci. FASEB Journal, 2021, 35, e21522.	0.5	12
6	Safety Testing of an Antisense Oligonucleotide Intended for Pediatric Indications in the Juvenile GÃ¶ttingen Minipig, including an Evaluation of the Ontogeny of Key Nucleases. Pharmaceutics, 2021, 13, 1442.	4.5	4
7	Mass Spectrometry-Based Zebrafish Toxicometabolomics: A Review of Analytical and Data Quality Challenges. Metabolites, 2021, 11, 635.	2.9	13
8	Species selection for nonclinical safety assessment of drug candidates: Examples of current industry practice. Regulatory Toxicology and Pharmacology, 2021, 126, 105029.	2.7	19
9	The Neonatal and Juvenile Pig in Pediatric Drug Discovery and Development. Pharmaceutics, 2021, 13, 44.	4.5	17
10	Preterm Birth Affects Early Motor Development in Pigs. Frontiers in Pediatrics, 2021, 9, 731877.	1.9	3
11	Ontogeny of renal, hepatic, and placental expression of ATP-binding cassette and solute carrier transporters in the rat and the rabbit. Reproductive Toxicology, 2021, 107, 1-9.	2.9	1
12	Developmental Toxicity and Biotransformation of Two Anti-Epileptics in Zebrafish Embryos and Early Larvae. International Journal of Molecular Sciences, 2021, 22, 12696.	4.1	4
13	DMSO Concentrations up to 1% are Safe to be Used in the Zebrafish Embryo Developmental Toxicity Assay. Frontiers in Toxicology, 2021, 3, 804033.	3.1	28
14	Use of Zebrafish in Drug Discovery Toxicology. Chemical Research in Toxicology, 2020, 33, 95-118.	3.3	315
15	A Medium-Throughput System for In Vitro Oxidative Stress Assessment in IPEC-J2 Cells. International Journal of Molecular Sciences, 2020, 21, 7263.	4.1	10
16	Refinement of the zebrafish embryo developmental toxicity assay. MethodsX, 2020, 7, 101087.	1.6	9
17	A Physiology-Based Pharmacokinetic Framework to Support Drug Development and Dose Precision During Therapeutic Hypothermia in Neonates. Frontiers in Pharmacology, 2020, 11, 587.	3.5	26
18	Short-chain fructo-oligosaccharides supplementation to suckling piglets: Assessment of pre- and post-weaning performance and gut health. PLoS ONE, 2020, 15, e0233910.	2.5	10

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19	Birthweight determines intestinal microvasculature development and alters endothelial nitric oxide synthase density in young piglets. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2020, 49, 627-634.	0.7	3
20	Glucose and glycogen levels in piglets that differ in birth weight and vitality. Heliyon, 2019, 5, e02510.	3.2	21
21	Does intrauterine crowding affect the force generating capacity and muscle composition of the piglet front limb?. PLoS ONE, 2019, 14, e0223851.	2.5	4
22	On the characterisation of the porcine gland-specific salivary proteome. Journal of Proteomics, 2019, 196, 92-105.	2.4	10
23	Advancing the Zebrafish embryo test for endocrine disruptor screening using microâ€injection: Ethinyl estradiol as a case study. Environmental Toxicology and Chemistry, 2019, 38, 533-547.	4.3	6
24	UPLC/MS MS data of testosterone metabolites in human and zebrafish liver microsomes and whole zebrafish larval microsomes. Data in Brief, 2018, 16, 644-648.	1.0	2
25	The porcine tonsils and Peyerâ€™s patches: A stereological morphometric analysis in conventionally and artificially reared piglets. Veterinary Immunology and Immunopathology, 2018, 206, 9-15.	1.2	3
26	From mRNA Expression of Drug Disposition Genes to In Vivo Assessment of CYP-Mediated Biotransformation during Zebrafish Embryonic and Larval Development. International Journal of Molecular Sciences, 2018, 19, 3976.	4.1	22
27	How does intrauterine crowding affect locomotor performance in newborn pigs? A study of force generating capacity and muscle composition of the hind limb. PLoS ONE, 2018, 13, e0209233.	2.5	12
28	Does intrauterine crowding affect locomotor development? A comparative study of motor performance, neuromotor maturation and gait variability among piglets that differ in birth weight and vitality. PLoS ONE, 2018, 13, e0195961.	2.5	25
29	Gene transcription ontogeny of hypothalamic-pituitary-thyroid axis development in early-life stage fathead minnow and zebrafish. General and Comparative Endocrinology, 2018, 266, 87-100.	1.8	45
30	In vitro Phase I- and Phase II-Drug Metabolism in The Liver of Juvenile and Adult GÃ¶ttingen Minipigs. Pharmaceutical Research, 2017, 34, 750-764.	3.5	16
31	In vitro CYP-mediated drug metabolism in the zebrafish (embryo) using human reference compounds. Toxicology in Vitro, 2017, 42, 329-336.	2.4	37
32	Preâ€•and Postnatal Development of the Eye: A Species Comparison. Birth Defects Research, 2017, 109, 1540-1567.	1.5	51
33	Antioxidants reduce reactive oxygen species but not embryotoxicity in the metabolic Danio rerio test (mDarT). Reproductive Toxicology, 2017, 72, 62-73.	2.9	2
34	How innate is locomotion in precocial animals? A study on the early development of spatio-temporal gait variables and gait symmetry in piglets. Journal of Experimental Biology, 2017, 220, 2706-2716.	1.7	29
35	A review on early gut maturation and colonization in pigs, including biological and dietary factors affecting gut homeostasis. Animal Feed Science and Technology, 2017, 233, 89-103.	2.2	61
36	Artificial rearing influences the morphology, permeability and redox state of the gastrointestinal tract of low and normal birth weight piglets. Journal of Animal Science and Biotechnology, 2017, 8, 30.	5.3	13

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37	In Vitro Biotransformation of Two Human CYP3A Probe Substrates and Their Inhibition during Early Zebrafish Development. International Journal of Molecular Sciences, 2017, 18, 217.	4.1	20
38	Evaluating Complex Mixtures in the Zebrafish Embryo by Reconstituting Field Water Samples: A Metal Pollution Case Study. International Journal of Molecular Sciences, 2017, 18, 539.	4.1	13
39	In Vitro Investigation of Six Antioxidants for Pig Diets. Antioxidants, 2016, 5, 41.	5.1	22
40	Birthweight has no influence on chemical body composition and muscle energy stores in suckling piglets. Animal Production Science, 2016, 56, 844.	1.3	6
41	In vitro CYP1A activity in the zebrafish: temporal but low metabolite levels during organogenesis and lack of gender differences in the adult stage. Reproductive Toxicology, 2016, 64, 50-56.	2.9	19
42	Intestinal immune cell quantification and gram type classification of the adherent microbiota in conventionally and artificially reared, normal and low birth weight piglets. Livestock Science, 2016, 185, 1-7.	1.6	9
43	Organ data from the developing GÃ¶ttingen minipig: first steps towards a juvenile PBPK model. Journal of Pharmacokinetics and Pharmacodynamics, 2016, 43, 179-190.	1.8	8
44	The Ligaments of the Canine Hip Joint Revisited. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2015, 44, 433-440.	0.7	2
45	Age-related Differences in CYP3A Abundance and Activity in the Liver of the GÃ¶ttingen Minipig. Basic and Clinical Pharmacology and Toxicology, 2015, 117, 350-357.	2.5	13
46	Incubation at 32.5Â°C and above causes malformations in the zebrafish embryo. Reproductive Toxicology, 2015, 56, 56-63.	2.9	42
47	Nutritional interventions to prevent and rear lowâ€birthweight piglets. Journal of Animal Physiology and Animal Nutrition, 2014, 98, 609-619.	2.2	54
48	Ontogeny of <scp>CYP</scp>3<scp>A</scp> and <scp>P</scp>â€Glycoprotein in the Liver and the Small Intestine of the GÃ¶ttingen Minipig: An Immunohistochemical Evaluation. Basic and Clinical Pharmacology and Toxicology, 2014, 114, 387-394.	2.5	28
49	Enteric and serological distribution of serotonin and its precursor tryptophan in perinatal low and normal weight piglets. Animal, 2014, 8, 792-799.	3.3	12
50	Lymph Drainage from the Ovine Tonsils: An Anatomical Study of the Tonsillar Lymph Vessels. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2014, 43, 482-489.	0.7	6
51	Angiogenesis in Canine Mammary Tumours: A Morphometric and Prognostic Study. Journal of Comparative Pathology, 2014, 150, 175-183.	0.4	12
52	Lymphangiogenesis in Canine Mammary Tumours: A Morphometric and Prognostic Study. Journal of Comparative Pathology, 2014, 150, 184-193.	0.4	13
53	Ontogeny of CYP3A in the liver of the GÃ¶ttingen minipig: An immunohistochemical and functional evaluation. Reproductive Toxicology, 2014, 48, 35.	2.9	0
54	Temperatures of 32.5Â°C and above impact zebrafish embryonic development. Reproductive Toxicology, 2014, 48, 14.	2.9	0

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55	Artificial rearing of piglets: Effects on small intestinal morphology and digestion capacity. Livestock Science, 2014, 159, 165-173.	1.6	38
56	Stereology: From astronomy to veterinary oncology. Veterinary Journal, 2014, 202, 3-4.	1.7	3
57	M cell specific markers in man and domestic animals: Valuable tools in vaccine development. Comparative Immunology, Microbiology and Infectious Diseases, 2013, 36, 353-364.	1.6	15
58	Increased IGF-1 serum levels and discordant protein and mRNA IGF-1 receptor expression in the small intestine of formula-fed piglets. Livestock Science, 2013, 154, 224-228.	1.6	3
59	Ghrelin in the gastrointestinal tract and blood circulation of perinatal low and normal weight piglets. Animal, 2013, 7, 1978-1984.	3.3	10
60	Interferon-Î³ modulates the functional profile of in-vitro-cultured porcine microglia. NeuroReport, 2012, 23, 519-524.	1.2	4
61	Endocrine disruptors and female fertility: Focus on (bovine) ovarian follicular physiology. Theriogenology, 2012, 78, 1887-1900.	2.1	40
62	Osteopontin alters the functional profile of porcine microglia in vitro. Cell Biology International, 2012, 36, 1233-1238.	3.0	19
63	Ontogeny of the drug efflux transporter P-glycoprotein in the small intestine of the pig: A preliminary investigation. Reproductive Toxicology, 2011, 32, 160-161.	2.9	0
64	Cell-specific localisation of apoptosis in the bovine ovary at different stages of the oestrous cycle. Theriogenology, 2006, 65, 757-772.	2.1	26
65	Biological and Chemical Approaches for the Detection and Identification of Illegal Estrogens in Water-based Solutions. Veterinary Research Communications, 2006, 30, 577-585.	1.6	1
66	Canine Endothelial Remodelling During the Estrus Cycle: an Overview. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2005, 34, 52-52.	0.7	0
67	Sperm distribution in the genital tract of the bitch following artificial insemination in relation to the time of ovulation. Reproduction, 2004, 128, 801-811.	2.6	36
68	Proliferation patterns in the canine endometrium during the estrous cycle. Theriogenology, 2004, 62, 631-641.	2.1	40
69	Apoptosis in the canine endometrium during the estrous cycle. Theriogenology, 2003, 60, 1595-1608.	2.1	28
70	Cyclic Changes of the Canine Endometrial Surface: An Electron-Microscopic Study. Cells Tissues Organs, 2003, 173, 46-53.	2.3	3
71	Morphological and Biochemical Aspects of Apoptosis, Oncosis and Necrosis. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2002, 31, 214-223.	0.7	416
72	Scanning Electron Microscopic Changes of the Canine Uterine Luminal Surface during Oestrus and Late Metoestrus. Reproduction in Domestic Animals, 2002, 37, 121-126.	1.4	6