Steven J Van Cruchten

List of Publications by Year
in descending order

72 papers	1,817 citations	331259 21 h-index	288905 40 g-index
78 all docs	78 docs citations	78 times ranked	2461 citing authors

#	Article	IF	Citations
1	Morphological and Biochemical Aspects of Apoptosis, Oncosis and Necrosis. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2002, 31, 214-223.	0.3	416
2	Use of Zebrafish in Drug Discovery Toxicology. Chemical Research in Toxicology, 2020, 33, 95-118.	1.7	315
3	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.	1.1	61
4	Nutritional interventions to prevent and rear lowâ€birthweight piglets. Journal of Animal Physiology and Animal Nutrition, 2014, 98, 609-619.	1.0	54
5	Preâ€and Postnatal Development of the Eye: A Species Comparison. Birth Defects Research, 2017, 109, 1540-1567.	0.8	51
6	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.	0.8	45
7	Incubation at 32.5Â°C and above causes malformations in the zebrafish embryo. Reproductive Toxicology, 2015, 56, 56-63.	1.3	42
8	Proliferation patterns in the canine endometrium during the estrous cycle. Theriogenology, 2004, 62, 631-641.	0.9	40
9	Endocrine disruptors and female fertility: Focus on (bovine) ovarian follicular physiology. Theriogenology, 2012, 78, 1887-1900.	0.9	40
10	Artificial rearing of piglets: Effects on small intestinal morphology and digestion capacity. Livestock Science, 2014, 159, 165-173.	0.6	38
11	In vitro CYP-mediated drug metabolism in the zebrafish (embryo) using human reference compounds. Toxicology in Vitro, 2017, 42, 329-336.	1.1	37
12	Sperm distribution in the genital tract of the bitch following artificial insemination in relation to the time of ovulation. Reproduction, 2004, 128, 801-811.	1.1	36
13	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.	0.8	29
14	Apoptosis in the canine endometrium during the estrous cycle. Theriogenology, 2003, 60, 1595-1608.	0.9	28
15	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.	1.2	28
16	DMSO Concentrations up to 1% are Safe to be Used in the Zebrafish Embryo Developmental Toxicity Assay. Frontiers in Toxicology, 2021, 3, 804033.	1.6	28
17	Cell-specific localisation of apoptosis in the bovine ovary at different stages of the oestrous cycle. Theriogenology, 2006, 65, 757-772.	0.9	26
18	A Physiology-Based Pharmacokinetic Framework to Support Drug Development and Dose Precision During Therapeutic Hypothermia in Neonates. Frontiers in Pharmacology, 2020, 11, 587.	1.6	26

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19	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.	1.1	25
20	In Vitro Investigation of Six Antioxidants for Pig Diets. Antioxidants, 2016, 5, 41.	2.2	22
21	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.	1.8	22
22	Glucose and glycogen levels in piglets that differ in birth weight and vitality. Heliyon, 2019, 5, e02510.	1.4	21
23	In Vitro Biotransformation of Two Human CYP3A Probe Substrates and Their Inhibition during Early Zebrafish Development. International Journal of Molecular Sciences, 2017, 18, 217.	1.8	20
24	Osteopontin alters the functional profile of porcine microglia in vitro. Cell Biology International, 2012, 36, 1233-1238.	1.4	19
25	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.	1.3	19
26	Species selection for nonclinical safety assessment of drug candidates: Examples of current industry practice. Regulatory Toxicology and Pharmacology, 2021, 126, 105029.	1.3	19
27	The Neonatal and Juvenile Pig in Pediatric Drug Discovery and Development. Pharmaceutics, 2021, 13, 44.	2.0	17
28	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.	1.7	16
29	M cell specific markers in man and domestic animals: Valuable tools in vaccine development. Comparative Immunology, Microbiology and Infectious Diseases, 2013, 36, 353-364.	0.7	15
30	Lymphangiogenesis in Canine Mammary Tumours: A Morphometric and Prognostic Study. Journal of Comparative Pathology, 2014, 150, 184-193.	0.1	13
31	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.	1.2	13
32	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.	2.1	13
33	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.	1.8	13
34	Mass Spectrometry-Based Zebrafish Toxicometabolomics: A Review of Analytical and Data Quality Challenges. Metabolites, 2021, 11, 635.	1.3	13
35	Enteric and serological distribution of serotonin and its precursor tryptophan in perinatal low and normal weight piglets. Animal, 2014, 8, 792-799.	1.3	12
36	Angiogenesis in Canine Mammary Tumours: A Morphometric and Prognostic Study. Journal of Comparative Pathology, 2014, 150, 175-183.	0.1	12

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37	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.	1.1	12
38	Low birth weight female piglets show altered intestinal development, gene expression, and epigenetic changes at key developmental loci. FASEB Journal, 2021, 35, e21522.	0.2	12
39	Ghrelin in the gastrointestinal tract and blood circulation of perinatal low and normal weight piglets. Animal, 2013, 7, 1978-1984.	1.3	10
40	On the characterisation of the porcine gland-specific salivary proteome. Journal of Proteomics, 2019, 196, 92-105.	1.2	10
41	A Medium-Throughput System for In Vitro Oxidative Stress Assessment in IPEC-J2 Cells. International Journal of Molecular Sciences, 2020, 21, 7263.	1.8	10
42	Short-chain fructo-oligosaccharides supplementation to suckling piglets: Assessment of pre- and post-weaning performance and gut health. PLoS ONE, 2020, 15, e0233910.	1.1	10
43	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.	0.6	9
44	Refinement of the zebrafish embryo developmental toxicity assay. MethodsX, 2020, 7, 101087.	0.7	9
45	Organ data from the developing GÃ¶ttingen minipig: first steps towards a juvenile PBPK model. Journal of Pharmacokinetics and Pharmacodynamics, 2016, 43, 179-190.	0.8	8
46	Handling Associated with Drenching Does Not Impact Survival and General Health of Low Birth Weight Piglets. Animals, 2021, 11, 404.	1.0	8
47	Scanning Electron Microscopic Changes of the Canine Uterine Luminal Surface during Oestrus and Late Metoestrus. Reproduction in Domestic Animals, 2002, 37, 121-126.	0.6	6
48	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.	0.3	6
49	Birthweight has no influence on chemical body composition and muscle energy stores in suckling piglets. Animal Production Science, 2016, 56, 844.	0.6	6
50	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.	2.2	6
51	Interferon-Î³ modulates the functional profile of in-vitro-cultured porcine microglia. NeuroReport, 2012, 23, 519-524.	0.6	4
52	Does intrauterine crowding affect the force generating capacity and muscle composition of the piglet front limb?. PLoS ONE, 2019, 14, e0223851.	1.1	4
53	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.	2.0	4
54	Developmental Toxicity and Biotransformation of Two Anti-Epileptics in Zebrafish Embryos and Early Larvae. International Journal of Molecular Sciences, 2021, 22, 12696.	1.8	4

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55	Drenching Bovine Colostrum, Quercetin or Fructo-Oligosaccharides Has No Effect on Health or Survival of Low Birth Weight Piglets. Animals, 2022, 12, 55.	1.0	4
56	Preweaning performance in intrauterine growthâ€restricted piglets: Characteristics and interventions. Molecular Reproduction and Development, 2023, 90, 697-707.	1.0	4
57	Cyclic Changes of the Canine Endometrial Surface: An Electron-Microscopic Study. Cells Tissues Organs, 2003, 173, 46-53.	1.3	3
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.	0.6	3
59	Stereology: From astronomy to veterinary oncology. Veterinary Journal, 2014, 202, 3-4.	0.6	3
60	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.	0.5	3
61	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.	0.3	3
62	Preterm Birth Affects Early Motor Development in Pigs. Frontiers in Pediatrics, 2021, 9, 731877.	0.9	3
63	The Ligaments of the Canine Hip Joint Revisited. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2015, 44, 433-440.	0.3	2
64	Antioxidants reduce reactive oxygen species but not embryotoxicity in the metabolic Danio rerio test (mDarT). Reproductive Toxicology, 2017, 72, 62-73.	1.3	2
65	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.	0.5	2
66	Biological and Chemical Approaches for the Detection and Identification of Illegal Estrogens in Water-based Solutions. Veterinary Research Communications, 2006, 30, 577-585.	0.6	1
67	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.	1.3	1
68	Canine Endothelial Remodelling During the Estrus Cycle: an Overview. Journal of Veterinary Medicine Series C: Anatomia Histologia Embryologia, 2005, 34, 52-52.	0.3	0
69	Ontogeny of the drug efflux transporter P-glycoprotein in the small intestine of the pig: A preliminary investigation. Reproductive Toxicology, 2011, 32, 160-161.	1.3	0
70	Ontogeny of CYP3A in the liver of the GÃ¶ttingen minipig: An immunohistochemical and functional evaluation. Reproductive Toxicology, 2014, 48, 35.	1.3	0
71	Temperatures of 32.5Â°C and above impact zebrafish embryonic development. Reproductive Toxicology, 2014, 48, 14.	1.3	0
72	In vitro biotransformation of proteratogens in different laboratory animal models, including the zebrafish. Reproductive Toxicology, 2021, 99, 132-133.	1.3	0