

# Joris Michiels

## List of Publications by Year in descending order

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42  
papers

2,082  
citations

471061

17  
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264894

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42  
docs citations

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times ranked

2657  
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#	ARTICLE	IF	CITATIONS
1	Nutritional composition of black soldier fly ( <i>Hermetia illucens</i> ) prepupae reared on different organic waste substrates. <i>Journal of the Science of Food and Agriculture</i> , 2017, 97, 2594-2600.	1.7	546
2	Association between heat stress and oxidative stress in poultry; mitochondrial dysfunction and dietary interventions with phytochemicals. <i>Journal of Animal Science and Biotechnology</i> , 2016, 7, 37.	2.1	330
3	<i>In vitro</i> degradation and <i>in vivo</i> passage kinetics of carvacrol, thymol, eugenol and <i>trans</i> -cinnamaldehyde along the gastrointestinal tract of piglets. <i>Journal of the Science of Food and Agriculture</i> , 2008, 88, 2371-2381.	1.7	177
4	Gut antimicrobial effects and nutritional value of black soldier fly ( <i>Hermetia illucens</i> L.) prepupae for weaned piglets. <i>Animal Feed Science and Technology</i> , 2018, 235, 33-42.	1.1	157
5	Effects of dose and formulation of carvacrol and thymol on bacteria and some functional traits of the gut in piglets after weaning. <i>Archives of Animal Nutrition</i> , 2010, 64, 136-154.	0.9	83
6	Maturation of digestive function is retarded and plasma antioxidant capacity lowered in fully weaned low birth weight piglets. <i>British Journal of Nutrition</i> , 2013, 109, 65-75.	1.2	74
7	Arabinoxylan in Wheat Is More Responsible Than Cellulose for Promoting Intestinal Barrier Function in Weaned Male Piglets. <i>Journal of Nutrition</i> , 2015, 145, 51-58.	1.3	74
8	Reduction in circulating bile acid and restricted diffusion across the intestinal epithelium are associated with a decrease in blood cholesterol in the presence of oat $\beta$ -glucan. <i>FASEB Journal</i> , 2016, 30, 4227-4238.	0.2	65
9	Trolox and Ascorbic Acid Reduce Direct and Indirect Oxidative Stress in the IPEC-J2 Cells, an <i>In Vitro</i> Model for the Porcine Gastrointestinal Tract. <i>PLoS ONE</i> , 2015, 10, e0120485.	1.1	62
10	Intrauterine growth restriction in neonatal piglets affects small intestinal mucosal permeability and mRNA expression of redox-sensitive genes. <i>FASEB Journal</i> , 2016, 30, 863-873.	0.2	60
11	Black Soldier Fly ( <i>Hermetia Illucens</i> ) as Dietary Source for Laying Quails: Live Performance, and Egg Physico-Chemical Quality, Sensory Profile and Storage Stability. <i>Animals</i> , 2019, 9, 115.	1.0	45
12	Effect of zinc oxide sources and dosages on gut microbiota and integrity of weaned piglets. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2019, 103, 231-241.	1.0	45
13	Artificial rearing of piglets: Effects on small intestinal morphology and digestion capacity. <i>Livestock Science</i> , 2014, 159, 165-173.	0.6	38
14	Production of selenium-enriched microalgae as potential feed supplement in high-rate algae ponds treating domestic wastewater. <i>Bioresource Technology</i> , 2021, 333, 125239.	4.8	32
15	<i>In Vitro</i> Investigation of Six Antioxidants for Pig Diets. <i>Antioxidants</i> , 2016, 5, 41.	2.2	22
16	Wheat bran components modulate intestinal bacteria and gene expression of barrier function relevant proteins in a piglet model. <i>International Journal of Food Sciences and Nutrition</i> , 2017, 68, 65-72.	1.3	22
17	Mycotoxin binder improves growth rate in piglets associated with reduction of toll-like receptor-4 and increase of tight junction protein gene expression in gut mucosa. <i>Journal of Animal Science and Biotechnology</i> , 2017, 8, 80.	2.1	22
18	Impact of Dietary Manganese on Intestinal Barrier and Inflammatory Response in Broilers Challenged with <i>Salmonella Typhimurium</i> . <i>Microorganisms</i> , 2020, 8, 757.	1.6	19

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19	25-hydroxycholecalciferol reverses heat induced alterations in bone quality in finisher broilers associated with effects on intestinal integrity and inflammation. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 104.	2.1	18
20	The Effect of Amino Acids on Production of SCFA and bCFA by Members of the Porcine Colonic Microbiota. <i>Microorganisms</i> , 2022, 10, 762.	1.6	18
21	Changes of the glutathione redox system during the weaning transition in piglets, in relation to small intestinal morphology and barrier function. <i>Journal of Animal Science and Biotechnology</i> , 2020, 11, 45.	2.1	16
22	Oxidative Status, Meat Quality and Fatty Acid Profile of Broiler Chickens Reared under Free-range and Severely Feed-restricted Conditions Compared with Conventional Indoor Rearing. <i>Avian Biology Research</i> , 2014, 7, 74-82.	0.4	15
23	Antibiotic affects the gut microbiota composition and expression of genes related to lipid metabolism and myofiber types in skeletal muscle of piglets. <i>BMC Veterinary Research</i> , 2020, 16, 392.	0.7	14
24	Impact of Xylanase and Glucanase on Oligosaccharide Formation, Carbohydrate Fermentation Patterns, and Nutrient Utilization in the Gastrointestinal Tract of Broilers. <i>Animals</i> , 2021, 11, 1285.	1.0	14
25	Artificial rearing influences the morphology, permeability and redox state of the gastrointestinal tract of low and normal birth weight piglets. <i>Journal of Animal Science and Biotechnology</i> , 2017, 8, 30.	2.1	13
26	Effects of Thymol and Thymol $\beta$ -D-Glucopyranoside on Intestinal Function and Microbiota of Weaned Pigs. <i>Animals</i> , 2020, 10, 329.	1.0	13
27	Thymol and trans-cinnamaldehyde reduce active nutrient absorption and chloride secretion in the pig jejunal Ussing chamber model. <i>Livestock Science</i> , 2010, 134, 27-29.	0.6	10
28	The Effect of Dietary Quercetin on the Glutathione Redox System and Small Intestinal Functionality of Weaned Piglets. <i>Antioxidants</i> , 2019, 8, 312.	2.2	10
29	Short-chain fructo-oligosaccharides supplementation to suckling piglets: Assessment of pre- and post-weaning performance and gut health. <i>PLoS ONE</i> , 2020, 15, e0233910.	1.1	10
30	Acidification of drinking water improved tibia mass of broilers through the alterations of intestinal barrier and microbiota. <i>Animal Bioscience</i> , 2022, 35, 902-915.	0.8	9
31	Impact of Red versus White Meat Consumption in a Prudent or Western Dietary Pattern on the Oxidative Status in a Pig Model. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 5661-5671.	2.4	8
32	Handling Associated with Drenching Does Not Impact Survival and General Health of Low Birth Weight Piglets. <i>Animals</i> , 2021, 11, 404.	1.0	8
33	Effects of N-Acetyl-Cysteine Supplementation through Drinking Water on the Glutathione Redox Status during the Weaning Transition of Piglets. <i>Antioxidants</i> , 2019, 8, 24.	2.2	6
34	Expression of Transient Receptor Potential Ankyrin 1 and Transient Receptor Potential Vanilloid 1 in the Gut of the Peri-Weaning Pig Is Strongly Dependent on Age and Intestinal Site. <i>Animals</i> , 2020, 10, 2417.	1.0	5
35	Fate of Thymol and Its Monoglucosides in the Gastrointestinal Tract of Piglets. <i>ACS Omega</i> , 2020, 5, 5241-5248.	1.6	5
36	Dietary Resistant Starch From Potato Regulates Bone Mass by Modulating Gut Microbiota and Concomitant Short-Chain Fatty Acids Production in Meat Ducks. <i>Frontiers in Nutrition</i> , 2022, 9, 860086.	1.6	5

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37	Drenching Bovine Colostrum, Quercetin or Fructo-Oligosaccharides Has No Effect on Health or Survival of Low Birth Weight Piglets. <i>Animals</i> , 2022, 12, 55.	1.0	4
38	<i>In vitro</i> and <i>in vivo</i> antimicrobial activity of cinnamaldehyde and derivatives towards the intestinal bacteria of the weaned piglet. <i>Italian Journal of Animal Science</i> , 2022, 21, 493-506.	0.8	3
39	Editorial: Impact of Climate Change on Poultry Metabolism. <i>Frontiers in Veterinary Science</i> , 2021, 8, 654678.	0.9	2
40	Weaning affects the glycosidase activity towards phenolic glycosides in the gut of piglets. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2020, 104, 1432-1443.	1.0	1
41	Cinnamaldehyde Induces Release of Cholecystokinin and Glucagon-Like Peptide 1 by Interacting with Transient Receptor Potential Ankyrin 1 in a Porcine Ex-Vivo Intestinal Segment Model. <i>Animals</i> , 2021, 11, 2262.	1.0	1
42	Effect of vitamin E level and dietary zinc source on performance and intestinal health parameters in male broilers exposed to a temperature challenge in the finisher period. <i>Journal of Animal Physiology and Animal Nutrition</i> , 2021, 105, 777-786.	1.0	1