

Weichao Zheng

List of Publications by Year in descending order

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papers

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759233

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all docs

41
docs citations

41
times ranked

353
citing authors

#	ARTICLE	IF	CITATIONS
1	Slightly acidic electrolyzed water as an alternative disinfection technique for hatching eggs. Poultry Science, 2022, 101, 101643.	3.4	7
2	Effect of inlet-outlet configurations on the cross-transmission of airborne bacteria between animal production buildings. Journal of Hazardous Materials, 2022, 429, 128372.	12.4	2
3	Effects of blue-green LED lights with two perceived illuminance (human and poultry) on immune performance and skeletal development of layer chickens. Poultry Science, 2022, 101, 101855.	3.4	3
4	Effect of elevated carbon dioxide on chicken eggs during the early and late incubation periods. Animal, 2022, 16, 100499.	3.3	1
5	Male mating behaviour and fertility of layer breeders in natural mating colony cages: LED light environmental effects. Applied Animal Behaviour Science, 2021, 236, 105257.	1.9	1
6	Building consensus on water use assessment of livestock production systems and supply chains: Outcome and recommendations from the FAO LEAP Partnership. Ecological Indicators, 2021, 124, 107391.	6.3	22
7	Spatiotemporal variations in the association between particulate matter and airborne bacteria based on the size-resolved respiratory tract deposition in concentrated layer feeding operations. Environment International, 2021, 150, 106413.	10.0	23
8	Dynamic simulation of thermal load and energy efficiency in poultry buildings in the cold zone of China. Computers and Electronics in Agriculture, 2020, 168, 105127.	7.7	13
9	Optimization of low-temperature drying of laying-hen manure using response surface methodology. Journal of the Air and Waste Management Association, 2020, 70, 206-218.	1.9	6
10	Effects of B-Wave Ultraviolet Supplementation Using Light-Emitting Diodes on Caged Laying Hens during the Later Phase of the Laying Cycle. Animals, 2020, 10, 15.	2.3	10
11	Effects of Cold Stress and Ammonia Concentration on Productive Performance and Egg Quality Traits of Laying Hens. Animals, 2020, 10, 2252.	2.3	15
12	Effects of a two-phase mixed color lighting program using light-emitting diode lights on layer chickens during brooding and rearing periods. Poultry Science, 2020, 99, 4695-4703.	3.4	13
13	Effects of chronic heat stress and ammonia concentration on blood parameters of laying hens. Poultry Science, 2020, 99, 3784-3792.	3.4	21
14	Air temperature, carbon dioxide, and ammonia assessment inside a commercial cage layer barn with manure-drying tunnels. Poultry Science, 2020, 99, 3885-3896.	3.4	10
15	Concentration and size distribution of particulate matter in a new aviary system for laying hens in China. Journal of the Air and Waste Management Association, 2020, 70, 379-392.	1.9	7
16	Optimum insulation thickness for the sandwich structure livestock buildings external envelopes in different climate regions of China. International Journal of Agricultural and Biological Engineering, 2020, 13, 29-41.	0.6	4
17	Effects of LED Light Color and Intensity on Feather Pecking and Fear Responses of Layer Breeders in Natural Mating Colony Cages. Animals, 2019, 9, 814.	2.3	16
18	A tracing method of airborne bacteria transmission across built environments. Building and Environment, 2019, 164, 106335.	6.9	9

#	ARTICLE	IF	CITATIONS
19	Influence of nest boxes and claw abrasive devices on feather pecking and the fear responses of layer breeders in natural mating colony cages. <i>Applied Animal Behaviour Science</i> , 2019, 220, 104842.	1.9	5
20	Prevention of particulate matter and airborne culturable bacteria transmission between double-tunnel ventilation layer hen houses. <i>Poultry Science</i> , 2019, 98, 2392-2398.	3.4	12
21	Effects of different claw-shortening devices on claw condition, fear, stress, and feather coverage of layer breeders. <i>Poultry Science</i> , 2019, 98, 3103-3113.	3.4	5
22	A new ventilation system to reduce temperature fluctuations in laying hen housing in continental climate. <i>Biosystems Engineering</i> , 2019, 181, 52-62.	4.3	12
23	Effects of LED Light Color and Intensity on Feather Pecking and Fear Responses of Layer Breeders in Natural Mating Colony Cages. , 2019, , .		0
24	Calculation Method for Chicken Perceived Light Intensity. , 2019, , .		0
25	Water Footprint Assessment of Eggs in a Parent-Stock Layer Breeder Farm. <i>Water (Switzerland)</i> , 2019, 11, 2546.	2.7	2
26	Effects of nest boxes in natural mating colony cages on fear, stress, and feather damage for layer breeders. <i>Journal of Animal Science</i> , 2019, 97, 4464-4474.	0.5	4
27	Optimization of a wet scrubber with electrolyzed water spray—Part I: Ammonia removal. <i>Journal of the Air and Waste Management Association</i> , 2019, 69, 592-602.	1.9	6
28	Optimization of a wet scrubber with electrolyzed water spray—Part II: Airborne culturable bacteria removal. <i>Journal of the Air and Waste Management Association</i> , 2019, 69, 603-610.	1.9	0
29	Reducing dust deposition and temperature fluctuations in the laying hen houses of Northwest China using a surge chamber. <i>Biosystems Engineering</i> , 2018, 175, 206-218.	4.3	8
30	Optimising the design of confined laying hen house insulation requirements in cold climates without using supplementary heat. <i>Biosystems Engineering</i> , 2018, 174, 282-294.	4.3	12
31	New control strategy against temperature sudden-drop in the initial stage of pad cooling process in poultry houses. <i>International Journal of Agricultural and Biological Engineering</i> , 2018, 11, 66-73.	0.6	2
32	Reducing feather pecking and cloacal cannibalism by providing layer breeders with nest boxes in colony cages for natural mating. <i>International Journal of Agricultural and Biological Engineering</i> , 2018, 11, 27-32.	0.6	12
33	Adaptability of pullets from cages to a large cage aviary unit system during the initial settling-in period. <i>International Journal of Agricultural and Biological Engineering</i> , 2018, 11, 70-76.	0.6	2
34	Application of slightly acidic electrolyzed water for decontamination of stainless steel surfaces in animal transport vehicles. <i>Preventive Veterinary Medicine</i> , 2016, 133, 42-51.	1.9	27
35	Design and performance evaluation of the upgraded portable monitoring unit for air quality in animal housing. <i>Computers and Electronics in Agriculture</i> , 2016, 124, 132-140.	7.7	13
36	Electrolyzed water and its application in animal houses. <i>Frontiers of Agricultural Science and Engineering</i> , 2016, 3, 195.	1.4	5

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37	Reduction of microbial contamination on the surfaces of layer houses using slightly acidic electrolyzed water. <i>Poultry Science</i> , 2015, 94, 2838-2848.	3.4	15
38	Free chlorine loss during spraying of membraneless acidic electrolyzed water and its antimicrobial effect on airborne bacteria from poultry house. <i>Annals of Agricultural and Environmental Medicine</i> , 2014, 21, 249-255.	1.0	29
39	Airborne bacterial reduction by spraying slightly acidic electrolyzed water in a laying-hen house. <i>Journal of the Air and Waste Management Association</i> , 2013, 63, 1205-1211.	1.9	22
40	Application of neutral electrolyzed water spray for reducing dust levels in a layer breeding house. <i>Journal of the Air and Waste Management Association</i> , 2012, 62, 1329-1334.	1.9	24
41	Bactericidal Activity of Slightly Acidic Electrolyzed Water Produced by Different Methods Analyzed with Ultraviolet Spectrophotometric. <i>International Journal of Food Engineering</i> , 2012, 8, .	1.5	14