

Weichao Zheng

List of Publications by Year in descending order

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41
papers

414
citations

759233

12
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353
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Spatiotemporal variations in the association between particulate matter and airborne bacteria based on the size-resolved respiratory tract deposition in concentrated layer feeding operations. <i>Environment International</i> , 2021, 150, 106413.	10.0	23
5	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
6	Building consensus on water use assessment of livestock production systems and supply chains: Outcome and recommendations from the FAO LEAP Partnership. <i>Ecological Indicators</i> , 2021, 124, 107391.	6.3	22
7	Effects of chronic heat stress and ammonia concentration on blood parameters of laying hens. <i>Poultry Science</i> , 2020, 99, 3784-3792.	3.4	21
8	Effects of LED Light Color and Intensity on Feather Pecking and Fear Responses of Layer Breeders in Natural Mating Colony Cages. <i>Animals</i> , 2019, 9, 814.	2.3	16
9	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
10	Effects of Cold Stress and Ammonia Concentration on Productive Performance and Egg Quality Traits of Laying Hens. <i>Animals</i> , 2020, 10, 2252.	2.3	15
11	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
12	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
13	Dynamic simulation of thermal load and energy efficiency in poultry buildings in the cold zone of China. <i>Computers and Electronics in Agriculture</i> , 2020, 168, 105127.	7.7	13
14	Effects of a two-phase mixed color lighting program using light-emitting diode lights on layer chickens during brooding and rearing periods. <i>Poultry Science</i> , 2020, 99, 4695-4703.	3.4	13
15	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
16	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
17	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
18	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

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19	Effects of B-Wave Ultraviolet Supplementation Using Light-Emitting Diodes on Caged Laying Hens during the Later Phase of the Laying Cycle. <i>Animals</i> , 2020, 10, 15.	2.3	10
20	Air temperature, carbon dioxide, and ammonia assessment inside a commercial cage layer barn with manure-drying tunnels. <i>Poultry Science</i> , 2020, 99, 3885-3896.	3.4	10
21	A tracing method of airborne bacteria transmission across built environments. <i>Building and Environment</i> , 2019, 164, 106335.	6.9	9
22	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
23	Concentration and size distribution of particulate matter in a new aviary system for laying hens in China. <i>Journal of the Air and Waste Management Association</i> , 2020, 70, 379-392.	1.9	7
24	Slightly acidic electrolyzed water as an alternative disinfection technique for hatching eggs. <i>Poultry Science</i> , 2022, 101, 101643.	3.4	7
25	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
26	Optimization of low-temperature drying of laying-hen manure using response surface methodology. <i>Journal of the Air and Waste Management Association</i> , 2020, 70, 206-218.	1.9	6
27	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
28	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
29	Electrolyzed water and its application in animal houses. <i>Frontiers of Agricultural Science and Engineering</i> , 2016, 3, 195.	1.4	5
30	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
31	Optimum insulation thickness for the sandwich structure livestock buildings external envelopes in different climate regions of China. <i>International Journal of Agricultural and Biological Engineering</i> , 2020, 13, 29-41.	0.6	4
32	Effects of blue-green LED lights with two perceived illuminance (human and poultry) on immune performance and skeletal development of layer chickens. <i>Poultry Science</i> , 2022, 101, 101855.	3.4	3
33	Water Footprint Assessment of Eggs in a Parent-Stock Layer Breeder Farm. <i>Water (Switzerland)</i> , 2019, 11, 2546.	2.7	2
34	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
35	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
36	Effect of inlet-outlet configurations on the cross-transmission of airborne bacteria between animal production buildings. <i>Journal of Hazardous Materials</i> , 2022, 429, 128372.	12.4	2

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37	Male mating behaviour and fertility of layer breeders in natural mating colony cages: LED light environmental effects. <i>Applied Animal Behaviour Science</i> , 2021, 236, 105257.	1.9	1
38	Effect of elevated carbon dioxide on chicken eggs during the early and late incubation periods. <i>Animal</i> , 2022, 16, 100499.	3.3	1
39	Effects of LED Light Color and Intensity on Feather Pecking and Fear Responses of Layer Breeders in Natural Mating Colony Cages. , 2019, , .		0
40	Calculation Method for Chicken Perceived Light Intensity. , 2019, , .		0
41	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