

Marcella Guarino

List of Publications by Year in descending order

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67
papers

2,707
citations

147726

31
h-index

182361

51
g-index

70
all docs

70
docs citations

70
times ranked

2351
citing authors

#	ARTICLE	IF	CITATIONS
1	Review: Environmental impact of livestock farming and Precision Livestock Farming as a mitigation strategy. <i>Science of the Total Environment</i> , 2019, 650, 2751-2760.	3.9	214
2	Smart Animal Agriculture: Application of Real-Time Sensors to Improve Animal Well-Being and Production. <i>Annual Review of Animal Biosciences</i> , 2019, 7, 403-425.	3.6	166
3	A critical review of the recent evolution of Life Cycle Assessment applied to milk production. <i>Journal of Cleaner Production</i> , 2017, 140, 421-435.	4.6	134
4	A review on dairy cattle farming: Is precision livestock farming the compromise for an environmental, economic and social sustainable production?. <i>Journal of Cleaner Production</i> , 2020, 262, 121409.	4.6	121
5	On-barn pig weight estimation based on body measurements by a Kinect v1 depth camera. <i>Computers and Electronics in Agriculture</i> , 2018, 148, 29-36.	3.7	116
6	Monitoring of swarming sounds in bee hives for early detection of the swarming period. <i>Computers and Electronics in Agriculture</i> , 2008, 64, 72-77.	3.7	106
7	Image feature extraction for classification of aggressive interactions among pigs. <i>Computers and Electronics in Agriculture</i> , 2014, 104, 57-62.	3.7	103
8	Measurements techniques and models to assess odor annoyance: A review. <i>Environment International</i> , 2020, 134, 105261.	4.8	94
9	Automatic real-time monitoring of locomotion and posture behaviour of pregnant cows prior to calving using online image analysis. <i>Computers and Electronics in Agriculture</i> , 2008, 64, 53-60.	3.7	89
10	A Feasibility Study on the Use of a Structured Light Depth-Camera for Three-Dimensional Body Measurements of Dairy Cows in Free-Stall Barns. <i>Sensors</i> , 2018, 18, 673.	2.1	78
11	Photocatalytic TiO ₂ coating to reduce ammonia and greenhouse gases concentration and emission from animal husbandries. <i>Bioresource Technology</i> , 2008, 99, 2650-2658.	4.8	75
12	Classification of aggressive behaviour in pigs by activity index and multilayer feed forward neural network. <i>Biosystems Engineering</i> , 2014, 119, 89-97.	1.9	70
13	Cough sound analysis to identify respiratory infection in pigs. <i>Computers and Electronics in Agriculture</i> , 2008, 64, 318-325.	3.7	64
14	Ammonia, methane, nitrous oxide and particulate matter emissions from two different buildings for laying hens. <i>Biosystems Engineering</i> , 2007, 97, 441-455.	1.9	62
15	Photocatalytic abatement of ammonia in nitrogen-containing effluents. <i>Chemical Engineering Journal</i> , 2012, 191, 394-401.	6.6	55
16	An innovative approach to predict the growth in intensive poultry farming. <i>Computers and Electronics in Agriculture</i> , 2015, 119, 178-183.	3.7	54
17	Field test of algorithm for automatic cough detection in pig houses. <i>Computers and Electronics in Agriculture</i> , 2008, 62, 22-28.	3.7	53
18	Early recognition of bovine respiratory disease in calves using automated continuous monitoring of cough sounds. <i>Computers and Electronics in Agriculture</i> , 2016, 129, 15-26.	3.7	52

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19	Effects of TiO ₂ based photocatalytic paint on concentrations and emissions of pollutants and on animal performance in a swine weaning unit. <i>Journal of Environmental Management</i> , 2012, 96, 86-90.	3.8	48
20	Definition of yearly emission factor of dust and greenhouse gases through continuous measurements in swine husbandry. <i>Atmospheric Environment</i> , 2009, 43, 1548-1556.	1.9	47
21	Analysis of aggressive behaviours of pigs by automatic video recordings. <i>Computers and Electronics in Agriculture</i> , 2013, 99, 209-217.	3.7	45
22	Real-time monitoring of broiler flock's welfare status using camera-based technology. <i>Biosystems Engineering</i> , 2018, 173, 103-114.	1.9	45
23	Discerning Pig Screams in Production Environments. <i>PLoS ONE</i> , 2015, 10, e0123111.	1.1	45
24	Describing the trend of ammonia, particulate matter and nitrogen oxides: The role of livestock activities in northern Italy during Covid-19 quarantine. <i>Environmental Research</i> , 2020, 191, 110048.	3.7	43
25	Image-processing technique to measure pig activity in response to climatic variation in a pig barn. <i>Animal Production Science</i> , 2014, 54, 1075.	0.6	42
26	Cough localization for the detection of respiratory diseases in pig houses. <i>Computers and Electronics in Agriculture</i> , 2008, 64, 286-292.	3.7	40
27	Milk production Life Cycle Assessment: A comparison between estimated and measured emission inventory for manure handling. <i>Science of the Total Environment</i> , 2018, 625, 209-219.	3.9	40
28	Environmental sustainability assessment of poultry productions through life cycle approaches: A critical review. <i>Trends in Food Science and Technology</i> , 2021, 110, 201-212.	7.8	40
29	Dust concentration variation in relation to animal activity in a pig barn. <i>Biosystems Engineering</i> , 2009, 104, 118-124.	1.9	39
30	Cough sound description in relation to respiratory diseases in dairy calves. <i>Preventive Veterinary Medicine</i> , 2010, 96, 276-280.	0.7	37
31	Automatic cough detection for bovine respiratory disease in a calf house. <i>Biosystems Engineering</i> , 2018, 173, 45-56.	1.9	37
32	The effect of anaerobic digestion and storage on indicator microorganisms in swine and dairy manure. <i>Environmental Science and Pollution Research</i> , 2017, 24, 24135-24146.	2.7	29
33	Sound analysis to model weight of broiler chickens. <i>Poultry Science</i> , 2017, 96, 3938-3943.	1.5	29
34	Yearly emission factors of ammonia and particulate matter from three laying-hen housing systems. <i>Animal Production Science</i> , 2012, 52, 1089.	0.6	26
35	A blueprint for developing and applying precision livestock farming tools: A key output of the EU-PLF project. <i>Animal Frontiers</i> , 2017, 7, 12-17.	0.8	26
36	Development of a Dynamic Model to Predict PM ₁₀ Emissions from Swine Houses. <i>Journal of Environmental Quality</i> , 2008, 37, 557-564.	1.0	25

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37	Online detection of an emotional response of a horse during physical activity. <i>Veterinary Journal</i> , 2009, 181, 38-42.	0.6	25
38	The use of image analysis as a new approach to assess behaviour classification in a pig barn. <i>Acta Veterinaria Brno</i> , 2013, 82, 25-30.	0.2	23
39	Comparison among NH ₃ and GHGs emissive patterns from different housing solutions of dairy farms. <i>Atmospheric Environment</i> , 2016, 141, 60-66.	1.9	23
40	Heat stress assessment by swine related vocalizations. <i>Livestock Science</i> , 2013, 151, 29-34.	0.6	21
41	Application note: Labelling, a methodology to develop reliable algorithm in PLF. <i>Computers and Electronics in Agriculture</i> , 2017, 142, 424-428.	3.7	21
42	Technical note: Validation and comparison of 2 commercially available activity loggers. <i>Journal of Dairy Science</i> , 2018, 101, 5449-5453.	1.4	21
43	Time-series analysis for online recognition and localization of sick pig (<i>Sus scrofa</i>) cough sounds. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 3803-3809.	0.5	20
44	A pilot study to detect coccidiosis in poultry farms at early stage from air analysis. <i>Biosystems Engineering</i> , 2018, 173, 64-70.	1.9	17
45	Analysis of Cough Sounds for Diagnosis of Respiratory Infections in Intensive Pig Farming. <i>Transactions of the ASABE</i> , 2008, 51, 1051-1055.	1.1	17
46	The influence of respiratory disease on the energy envelope dynamics of pig cough sounds. <i>Computers and Electronics in Agriculture</i> , 2009, 69, 80-85.	3.7	16
47	Improvement of human health and environmental costs in the European Union by air scrubbers in intensive pig farming. <i>Journal of Cleaner Production</i> , 2020, 275, 124007.	4.6	16
48	A Data-Driven Prediction Method for an Early Warning of Coccidiosis in Intensive Livestock Systems: A Preliminary Study. <i>Animals</i> , 2020, 10, 747.	1.0	15
49	Effects of disinfectant fogging procedure on dust, ammonia concentration, aerobic bacteria and fungal spores in a farrowing-weaning room. <i>Annals of Agricultural and Environmental Medicine</i> , 2014, 21, 494-499.	0.5	14
50	Labelling the Behaviour of Piglets and Activity Monitoring from Video as a Tool of Assessing Interest in Different Environmental Enrichments / Oznaczenie zachowania i monitorowanie aktywności prosiąt na podstawie zapisu wideo jako narzędzie oceny ich zainteresowania różnymi elementami wzbogacającego środowiska. <i>Annals of Animal Science</i> , 2013, 13, 611-621.	0.6	10
51	Comparison of ammonia air concentration before and during the spread of COVID-19 in Lombardy (Italy) using ground-based and satellite data. <i>Atmospheric Environment</i> , 2021, 259, 118534.	1.9	10
52	The influence on biogas production of three slurry-handling systems in dairy farms. <i>Journal of Agricultural Engineering</i> , 2015, 46, 30.	0.7	9
53	Improving the Sustainability of Dairy Slurry by A Commercial Additive Treatment. <i>Sustainability</i> , 2019, 11, 4998.	1.6	9
54	Effects of Corn Milling Type on Physical Characteristics and Dustiness of Swine Diets. <i>Transactions of the ASABE</i> , 2007, 50, 1759-1764.	1.1	7

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55	PARTICULATE MATTER CONCENTRATION AND EMISSION FACTOR IN THREE DIFFERENT LAYING HEN HOUSING SYSTEMS. <i>Journal of Agricultural Engineering</i> , 2009, 40, 15.	0.7	5
56	Evaluation of a Wet Acid Scrubber and Dry Filter Abatement Technologies in Pig Barns by Dynamic Olfactometry. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3219.	1.3	4
57	OPTICAL FLOW ALGORITHM TO QUANTIFY THE TWO-DIMENSIONAL VELOCITY COMPONENTS OF A VISUALIZED AIR JET. <i>Transactions of the American Society of Agricultural Engineers</i> , 2004, 47, 847-856.	0.9	2
58	Acoustic-reward learning as a method to reduce the incidence of aggressive and abnormal behaviours among newly mixed piglets. <i>Animal Production Science</i> , 2014, 54, 1084.	0.6	2
59	Field Test of Algorithm for Cough Detection in Pig Houses. , 2004, , .		1
60	Quantification of Three-Dimensional Light Distribution in Pig Houses. <i>Transactions of the ASABE</i> , 2009, 52, 1677-1682.	1.1	1
61	The influence of microclimate on the development of foot pad dermatitis in broilers. , 2018, , .		1
62	Ammonia concentration and recommended threshold values in pig farming: a review. , 2021, , .		1
63	The Potentialities of Machine Learning for Cow-Specific Milking: Automatically Setting Variables in Milking Machines. <i>Animals</i> , 2022, 12, 1614.	1.0	1
64	Real-Time Measurement of Pig Activity in Practical Conditions. , 2008, , .		0
65	The sound makes the difference: the utility of real time sound analysis for health monitoring in pigs. , 2013, , 407-418.		0
66	They have seen the light: 3D light distribution and effects of light intensity on animal welfare in swine husbandry. , 2013, , 441-452.		0
67	Acoustic Analysis of Some Characteristics of Red Deer Roaring. <i>Italian Journal of Animal Science</i> , 2015, 14, 3773.	0.8	0