Åukasz Gierz

List of Publications by Year
in descending order

33 papers	225 citations

1162367

8 h-index	

1058022

14 g-index

34 all docs	34 docs citations

34 times ranked	115 citing authors

#	Article	IF	Citations
1	Artificial neural networks and electron microscopy to evaluate the quality of fruit and vegetable spray-dried powders. Case study: Strawberry powder. Computers and Electronics in Agriculture, 2018, 155, 314-323.	3.7	46
2	New Trends in Substrates and Biogas Systems in Poland. Journal of Ecological Engineering, 2020, 21, 19-25.	0.5	26
3	Classification of Dried Strawberry by the Analysis of the Acoustic Sound with Artificial Neural Networks. Sensors, 2020, 20, 499.	2.1	25
4	Neural Image Analysis and Electron Microscopy to Detect and Describe Selected Quality Factors of Fruit and Vegetable Spray-Dried Powders—Case Study: Chokeberry Powder. Sensors, 2019, 19, 4413.	2.1	20
5	The Use of Image Analysis to Detect Seed Contamination—A Case Study of Triticale. Sensors, 2021, 21, 151.	2.1	17
6	Computer Aided Modeling of Wood Chips Transport by Means of a Belt Conveyor with Use of Discrete Element Method. Applied Sciences (Switzerland), 2020, 10, 9091.	1.3	14
7	Computer vision and artificial neural network techniques for classification of damage in potatoes during the storage process. Czech Journal of Food Sciences, 2019, 37, 135-140.	0.6	13
8	Measurements and Analysis of the Physical Properties of Cereal Seeds Depending on Their Moisture Content to Improve the Accuracy of DEM Simulation. Applied Sciences (Switzerland), 2022, 12, 549.	1.3	8
9	Methodology of data processing in the process of neural image analysis of pork half carcasses. , 2018, , .		7
10	Recognition of color changes in strawberry juice powders using self-organizing feature map. , 2018, , .		6
11	Validation of a photogrammetric method for evaluating seed potato cover by a chemical agent. , 2018, , .		6
12	Study of the Relationships between Multi-Hole, Multi-Disc Mill Performance Parameters and Comminution Indicators. Sustainability, 2021, 13, 8260.	1.6	5
13	The Effect of the Distribution Head Tilt and Diffuser Variants on the Evenness of Sowing Rye and Oat Seeds with a Pneumatic Seed Drill. Materials, 2020, 13, 3000.	1.3	4
14	The selection of a representative substance for image analysis assessment. , 2019, , .		3
15	The method and a stand for measuring aerodynamic forces in every plane on the basis of an image analysis. , 2019, , .		3
16	Optimization of the Sowing Unit of a Piezoelectrical Sensor Chamber with the Use of Grain Motion Modeling by Means of the Discrete Element Method. Case Study: Rape Seed. Applied Sciences (Switzerland), 2022, 12, 1594.	1.3	3
17	The diagnostic information valuation method in servicing tractors. MATEC Web of Conferences, 2018, 182, 01013.	0.1	2
18	An Assessment of the Functional and Ecological Aspect of Novel Intermittent Stream Valves for Spraying Seed Potatoes. Agronomy, 2020, 10, 541.	1.3	2

#	Article	IF	Citations
19	Simulation Verification of the Contact Parameter Influence on the Forcesâ€™ Course of Cereal Grain Impact against a Stiff Surface. Applied Sciences (Switzerland), 2021, 11, 466.	1.3	2
20	Comparison of methods of obtaining visual data in the shape of obstacles in wastelands and forest areas for the purpose of automatic control of the stability of self-propelled machines. , 2021, , .		2
21	Design of an effective platform for unmanned aerial vehicles to collect research material in the form of aerial photographs. , 2018, , .		2
22	Identification of co-substrate composted with sewage sludge using convolutional neural networks. , 2019, , .		2
23	The Effectiveness of the Application of a Chemical Agent (Dressing) to Seed Potatoes by Means of an Innovative Valve Enabling Intermittent Flow of a Liquid. Agriculture (Switzerland), 2020, 10, 85.	1.4	1
24	PVDF Piezoelectric Sensors for Seeds Counting and Coulter Clogging Detection in Sowing Process Monitoring. Journal of Engineering (United States), 2020, 2020, 1-7.	0.5	1
25	Neural networks in classification of dried vegetables. , 2021, , .		1
26	Application of neural modelling methods in the evaluation of the quality of pork half-carcasses. , 2019, , .		1
27	Mapping and visualization of complex relational structures in the graph form using the Neo4j graph database. , 2019, , .		1
28	Sialon and Alumina Modified UV-Curable Coatings with Improved Mechanical Properties and Hydrophobicity. Coatings, 2021, 11, 1424.	1.2	1
29	Analysis of flow through channel with mounted blades. MATEC Web of Conferences, 2018, 240, 03012.	0.1	0
30	Testing of electrical signals from piezoelectric sensors in application for counting grains in seeding machine. , 2018, , .		0
31	Unsupervised neural classification of six chosen apple pests using learned vector quantization agorithm. , 2018, , .		0
32	Neural classification of microscope digital pictures domestic pig oocytes. , 2019, , .		0
33	Neural image analysis in determining the content of dry matter in corn cob. , 2019, , .		0