

# Arkusz Gierz

## List of Publications by Year in descending order

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33  
papers

225  
citations

1162367

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h-index

1058022

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g-index

34  
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34  
docs citations

34  
times ranked

115  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Neural networks in classification of dried vegetables. , 2021, , .		1
5	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
6	Study of the Relationships between Multi-Hole, Multi-Disc Mill Performance Parameters and Comminution Indicators. Sustainability, 2021, 13, 8260.	1.6	5
7	The Use of Image Analysis to Detect Seed Contaminationâ€™A Case Study of Triticale. Sensors, 2021, 21, 151.	2.1	17
8	Sialon and Alumina Modified UV-Curable Coatings with Improved Mechanical Properties and Hydrophobicity. Coatings, 2021, 11, 1424.	1.2	1
9	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
10	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
11	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
12	An Assessment of the Functional and Ecological Aspect of Novel Intermittent Stream Valves for Spraying Seed Potatoes. Agronomy, 2020, 10, 541.	1.3	2
13	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
14	Classification of Dried Strawberry by the Analysis of the Acoustic Sound with Artificial Neural Networks. Sensors, 2020, 20, 499.	2.1	25
15	New Trends in Substrates and Biogas Systems in Poland. Journal of Ecological Engineering, 2020, 21, 19-25.	0.5	26
16	Neural Image Analysis and Electron Microscopy to Detect and Describe Selected Quality Factors of Fruit and Vegetable Spray-Dried Powdersâ€™ Case Study: Chokeberry Powder. Sensors, 2019, 19, 4413.	2.1	20
17	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
18	Application of neural modelling methods in the evaluation of the quality of pork half-carcasses. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
19	The selection of a representative substance for image analysis assessment. , 2019, , .		3
20	Neural classification of microscope digital pictures domestic pig oocytes. , 2019, , .		0
21	Mapping and visualization of complex relational structures in the graph form using the Neo4j graph database. , 2019, , .		1
22	Neural image analysis in determining the content of dry matter in corn cob. , 2019, , .		0
23	Identification of co-substrate composted with sewage sludge using convolutional neural networks. , 2019, , .		2
24	The method and a stand for measuring aerodynamic forces in every plane on the basis of an image analysis. , 2019, , .		3
25	Analysis of flow through channel with mounted blades. MATEC Web of Conferences, 2018, 240, 03012.	0.1	0
26	The diagnostic information valuation method in servicing tractors. MATEC Web of Conferences, 2018, 182, 01013.	0.1	2
27	Testing of electrical signals from piezoelectric sensors in application for counting grains in seeding machine. , 2018, , .		0
28	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
29	Methodology of data processing in the process of neural image analysis of pork half carcasses. , 2018, , .		7
30	Recognition of color changes in strawberry juice powders using self-organizing feature map. , 2018, , .		6
31	Validation of a photogrammetric method for evaluating seed potato cover by a chemical agent. , 2018, , .		6
32	Unsupervised neural classification of six chosen apple pests using learned vector quantization algorithm. , 2018, , .		0
33	Design of an effective platform for unmanned aerial vehicles to collect research material in the form of aerial photographs. , 2018, , .		2