

Jozef Horabik

List of Publications by Year in descending order

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31
papers

695
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759233

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g-index

32
all docs

32
docs citations

32
times ranked

509
citing authors

#	ARTICLE	IF	CITATIONS
1	Parameters and contact models for DEM simulations of agricultural granular materials: A review. Biosystems Engineering, 2016, 147, 206-225.	4.3	246
2	Influence of grain shape and intergranular friction on material behavior in uniaxial compression: Experimental and DEM modeling. Powder Technology, 2012, 217, 435-442.	4.2	83
3	Determination of the restitution coefficient of seeds and coefficients of visco-elastic Hertz contact models for DEM simulations. Biosystems Engineering, 2017, 161, 106-119.	4.3	63
4	Discharge of rapeseeds from a model silo: Physical testing and discrete element method simulations. Computers and Electronics in Agriculture, 2013, 97, 40-46.	7.7	40
5	Experiments and discrete element method simulations of distribution of static load of grain bedding at bottom of shallow model silo. Biosystems Engineering, 2016, 149, 60-71.	4.3	31
6	DEM simulation of the packing structure and wall load in a 2-dimensional silo. Granular Matter, 2008, 10, 273-278.	2.2	26
7	Influence of particle shape and sample width on uniaxial compression of assembly of prolate spheroids examined by discrete element method. Physica A: Statistical Mechanics and Its Applications, 2014, 416, 279-289.	2.6	21
8	Determination of modulus of elasticity of cereals and rapeseeds using acoustic method. Journal of Food Engineering, 2007, 82, 51-57.	5.2	20
9	Tensile strength of pressure-agglomerated potato starch determined via diametral compression test: Discrete element method simulations and experiments. Biosystems Engineering, 2019, 183, 95-109.	4.3	18
10	Discrete element method simulations and experimental study of interactions in 3D granular bedding during low-velocity impact. Powder Technology, 2018, 340, 52-67.	4.2	15
11	Discrete Element Method Modelling of the Diametral Compression of Starch Agglomerates. Materials, 2020, 13, 932.	2.9	15
12	Friction and Shear Properties of Pine Biomass and Pellets. Materials, 2020, 13, 3567.	2.9	13
13	Mechanical properties of potato starch modified by moisture content and addition of lubricant. International Agrophysics, 2014, 28, 501-509.	1.7	13
14	Distribution of static pressure of seeds in a shallow model silo. International Agrophysics, 2017, 31, 167-174.	1.7	11
15	DEM simulation of the pressure distribution and flow pattern in a model grain silo with an annular segment attached to the wall. Biosystems Engineering, 2020, 193, 75-89.	4.3	11
16	Structure and strength of kaolinite "soil silt aggregates: Measurements and modeling. Geoderma, 2021, 382, 114687.	5.1	11
17	On Applicability of a Direct Shear Test for Strength Estimation of Cereal Grain. Particle and Particle Systems Characterization, 2004, 21, 310-315.	2.3	9
18	Non-Axial Stress State in a Model Silo Generated by Eccentric Filling and Internal Inserts. Particle and Particle Systems Characterization, 2007, 24, 291-295.	2.3	8

#	ARTICLE	IF	CITATIONS
19	Mechanical and Combustion Properties of Agglomerates of Wood of Popular Eastern European Species. <i>Materials</i> , 2021, 14, 2728.	2.9	7
20	Variability of pressure drops in grain generated by kernel shape and bedding method. <i>Journal of Stored Products Research</i> , 2009, 45, 112-118.	2.6	6
21	Agrophysics - physics in agriculture and environment. <i>Soil Science Annual</i> , 2013, 64, 67-80.	0.8	5
22	Effect of aspect ratio on the mechanical behavior of packings of spheroids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2018, 501, 1-11.	2.6	5
23	Breakage Strength of Wood Sawdust Pellets: Measurements and Modelling. <i>Materials</i> , 2021, 14, 3273.	2.9	5
24	Experimental analysis of wheat-wall friction and grain flow in a steel silo with corrugated walls. <i>Biosystems Engineering</i> , 2021, 209, 216-231.	4.3	4
25	Discharge Flow of Spherical Particles from a Cylindrical Bin: Experiment and DEM Simulations. <i>Processes</i> , 2021, 9, 1860.	2.8	4
26	DEM modelling of the influence of initial stress state on the discharge rate of spherical particles from a model silo. <i>Powder Technology</i> , 2022, 403, 117402.	4.2	4
27	Properties of Grain for Silo Strength Calculation. , 2002, , 195-217.		1
28	Isotropy And Anisotropy in Agricultural Products and Foods. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 407-409.	0.1	0
29	Physical Phenomena and Properties Important for Storage of Agricultural Products. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 567-573.	0.1	0
30	Agrophysics: Physics Applied to Agriculture. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 35-48.	0.1	0
31	Institute of Agrophysics in Lublin: Progress in Agrophysics. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 393-396.	0.1	0