Jozef Horabik

List of Publications by Year
in descending order

31	695	759233 12	552781 26
papers	citations	h-index	g-index

32	32	32	509
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	DEM modelling of the influence of initial stress state on the discharge rate of spherical particles from a model silo. Powder Technology, 2022, 403, 117402.	4.2	4
2	Structure and strength of kaoliniteâ€“soil silt aggregates: Measurements and modeling. Geoderma, 2021, 382, 114687.	5.1	11
3	Mechanical and Combustion Properties of Agglomerates of Wood of Popular Eastern European Species. Materials, 2021, 14, 2728.	2.9	7
4	Breakage Strength of Wood Sawdust Pellets: Measurements and Modelling. Materials, 2021, 14, 3273.	2.9	5
5	Experimental analysis of wheat-wall friction and grain flow in a steel silo with corrugated walls. Biosystems Engineering, 2021, 209, 216-231.	4.3	4
6	Discharge Flow of Spherical Particles from a Cylindrical Bin: Experiment and DEM Simulations. Processes, 2021, 9, 1860.	2.8	4
7	Friction and Shear Properties of Pine Biomass and Pellets. Materials, 2020, 13, 3567.	2.9	13
8	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
9	Discrete Element Method Modelling of the Diametral Compression of Starch Agglomerates. Materials, 2020, 13, 932.	2.9	15
10	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
11	Effect of aspect ratio on the mechanical behavior of packings of spheroids. Physica A: Statistical Mechanics and Its Applications, 2018, 501, 1-11.	2.6	5
12	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
13	Distribution of static pressure of seeds in a shallow model silo. International Agrophysics, 2017, 31, 167-174.	1.7	11
14	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
15	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
16	Parameters and contact models for DEM simulations of agricultural granular materials: A review. Biosystems Engineering, 2016, 147, 206-225.	4.3	246
17	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
18	Mechanical properties of potato starch modified by moisture content and addition of lubricant. International Agrophysics, 2014, 28, 501-509.	1.7	13

#	Article	IF	Citations
19	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
20	Agrophysics - physics in agriculture and environment. Soil Science Annual, 2013, 64, 67-80.	0.8	5
21	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
22	Isotropy And Anisotropy in Agricultural Products and Foods. Encyclopedia of Earth Sciences Series, 2011, , 407-409.	0.1	0
23	Physical Phenomena and Properties Important for Storage of Agricultural Products. Encyclopedia of Earth Sciences Series, 2011, , 567-573.	0.1	0
24	Agrophysics: Physics Applied to Agriculture. Encyclopedia of Earth Sciences Series, 2011, , 35-48.	0.1	0
25	Institute of Agrophysics in Lublin: Progress in Agrophysics. Encyclopedia of Earth Sciences Series, 2011, , 393-396.	0.1	0
26	Variability of pressure drops in grain generated by kernel shape and bedding method. Journal of Stored Products Research, 2009, 45, 112-118.	2.6	6
27	DEM simulation of the packing structure and wall load in a 2-dimensional silo. Granular Matter, 2008, 10, 273-278.	2.2	26
28	Determination of modulus of elasticity of cereals and rapeseeds using acoustic method. Journal of Food Engineering, 2007, 82, 51-57.	5.2	20
29	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
30	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
31	Properties of Grain for Silo Strength Calculation. , 2002, , 195-217.		1