Hiroshi Nakashima

List of Publications by Year
in descending order

26	810	516561 16	552653 26
papers	citations	h-index	g-index

27	27	27	517
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Algorithm and implementation of soilâ€“tire contact analysis code based on dynamic FEâ€“DE method. Journal of Terramechanics, 2004, 41, 127-137.	1.4	116
2	Determining the angle of repose of sand under low-gravity conditions using discrete element method. Journal of Terramechanics, 2011, 48, 17-26.	1.4	115
3	Parametric analysis of lugged wheel performance for a lunar microrover by means of DEM. Journal of Terramechanics, 2007, 44, 153-162.	1.4	88
4	Discrete element method analysis of single wheel performance for a small lunar rover on sloped terrain. Journal of Terramechanics, 2010, 47, 307-321.	1.4	88
5	2D FEâ€“DEM analysis of tractive performance of an elastic wheel for planetary rovers. Journal of Terramechanics, 2016, 64, 23-35.	1.4	47
6	Experimental validation of distinct element simulation for dynamic wheelâ€“soil interaction. Journal of Terramechanics, 2007, 44, 429-437.	1.4	36
7	Investigation of elemental shape for 3D DEM modeling of interaction between soil and a narrow cutting tool. Journal of Terramechanics, 2013, 50, 265-276.	1.4	29
8	FE-DEM with interchangeable modeling for off-road tire traction analysis. Journal of Terramechanics, 2018, 78, 15-25.	1.4	28
9	An indoor traction measurement system for agricultural tires. Journal of Terramechanics, 2006, 43, 317-327.	1.4	27
10	Modification of a mouldboard plough surface using arrays of polyethylene protuberances. Journal of Terramechanics, 2007, 44, 411-422.	1.4	27
11	2D FEâ€“DEM analysis of contact stress and tractive performance of a tire driven on dry sand. Journal of Terramechanics, 2017, 74, 25-33.	1.4	26
12	Effects of gravity on rigid rover wheel sinkage and motion resistance assessed using two-dimensional discrete element method. Journal of Terramechanics, 2014, 53, 37-45.	1.4	24
13	Development of a new type of electric off-road vehicle powered by microwaves transmitted through air. Journal of Terramechanics, 2007, 44, 329-338.	1.4	23
14	A three-dimensional tire model by the finite element method. Journal of Terramechanics, 1993, 30, 21-34.	1.4	22
15	Small-radius turning performance of an articulated vehicle by direct yaw moment control. Computers and Electronics in Agriculture, 2011, 76, 277-283.	3.7	21
16	Physics engine application to overturning dynamics analysis on banks and uniform slopes for an agricultural tractor with a rollover protective structure. Biosystems Engineering, 2019, 185, 150-160.	1.9	19
17	Non-contact sensors for distance measurement from ground surface. Journal of Terramechanics, 1996, 33, 155-165.	1.4	16
18	Comparison of gross tractive effort of a single grouser in two-dimensional DEM and experiment. Journal of Terramechanics, 2015, 62, 41-50.	1.4	15

#	Article	IF	Citations
19	Effect of Different Durations of Root Area Chilling on the Nutritional Quality of Spinach. Environmental Control in Biology, 2014, 51, 187-191.	0.3	12
20	Field performance of proposed foresight tillage depth control system for rotary implements mounted on an agricultural tractor. Journal of Terramechanics, 2000, 37, 99-111.	1.4	9
21	Aggregate size measurement by machine vision. Journal of Terramechanics, 2008, 45, 137-145.	1.4	7
22	A model of root elongation by dynamic contact interaction. Plant Root, 2008, 2, 58-66.	0.3	5
23	Quantitative Relationship of the Nutritional Quality of Spinach with Temperature and Duration in Root Area Chilling Treatment. Environmental Control in Biology, 2015, 53, 35-42.	0.3	4
24	Effect of Distribution of Photosynthetic Photon Flux Density Created by LEDs and Condenser Lenses on Growth of Leaf Lettuce (Lactuca sativa var. angustana). Environmental Control in Biology, 2013, 51, 131-137.	0.3	3
25	Development of an electric vehicle by microwave power transmission. Engineering in Agriculture, Environment and Food, 2014, 7, 103-108.	0.2	2
26	Growth of Spinacia oleracea under Long-Term Microwave Exposure ^|^mdash;Survey of 1, 3, and 5 Weeks Growth in Growth Chamber^|^mdash;. Environmental Control in Biology, 2014, 52, 29-36.	0.3	1