

Hiroshi Nakashima

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

810
citations

516561

16
h-index

552653

26
g-index

27
all docs

27
docs citations

27
times ranked

517
citing authors

#	ARTICLE	IF	CITATIONS
1	Physics engine application to overturning dynamics analysis on banks and uniform slopes for an agricultural tractor with a rollover protective structure. <i>Biosystems Engineering</i> , 2019, 185, 150-160.	1.9	19
2	FE-DEM with interchangeable modeling for off-road tire traction analysis. <i>Journal of Terramechanics</i> , 2018, 78, 15-25.	1.4	28
3	2D FE-DEM analysis of contact stress and tractive performance of a tire driven on dry sand. <i>Journal of Terramechanics</i> , 2017, 74, 25-33.	1.4	26
4	2D FE-DEM analysis of tractive performance of an elastic wheel for planetary rovers. <i>Journal of Terramechanics</i> , 2016, 64, 23-35.	1.4	47
5	Quantitative Relationship of the Nutritional Quality of Spinach with Temperature and Duration in Root Area Chilling Treatment. <i>Environmental Control in Biology</i> , 2015, 53, 35-42.	0.3	4
6	Comparison of gross tractive effort of a single grouser in two-dimensional DEM and experiment. <i>Journal of Terramechanics</i> , 2015, 62, 41-50.	1.4	15
7	Growth of <i>Spinacia oleracea</i> under Long-Term Microwave Exposure ^ ^mdash;Survey of 1, 3, and 5 Weeks Growth in Growth Chamber^ ^mdash;. <i>Environmental Control in Biology</i> , 2014, 52, 29-36.	0.3	1
8	Effects of gravity on rigid rover wheel sinkage and motion resistance assessed using two-dimensional discrete element method. <i>Journal of Terramechanics</i> , 2014, 53, 37-45.	1.4	24
9	Development of an electric vehicle by microwave power transmission. <i>Engineering in Agriculture, Environment and Food</i> , 2014, 7, 103-108.	0.2	2
10	Effect of Different Durations of Root Area Chilling on the Nutritional Quality of Spinach. <i>Environmental Control in Biology</i> , 2014, 51, 187-191.	0.3	12
11	Investigation of elemental shape for 3D DEM modeling of interaction between soil and a narrow cutting tool. <i>Journal of Terramechanics</i> , 2013, 50, 265-276.	1.4	29
12	Effect of Distribution of Photosynthetic Photon Flux Density Created by LEDs and Condenser Lenses on Growth of Leaf Lettuce (<i>Lactuca sativa</i> var. <i>angustana</i>). <i>Environmental Control in Biology</i> , 2013, 51, 131-137.	0.3	3
13	Small-radius turning performance of an articulated vehicle by direct yaw moment control. <i>Computers and Electronics in Agriculture</i> , 2011, 76, 277-283.	3.7	21
14	Determining the angle of repose of sand under low-gravity conditions using discrete element method. <i>Journal of Terramechanics</i> , 2011, 48, 17-26.	1.4	115
15	Discrete element method analysis of single wheel performance for a small lunar rover on sloped terrain. <i>Journal of Terramechanics</i> , 2010, 47, 307-321.	1.4	88
16	Aggregate size measurement by machine vision. <i>Journal of Terramechanics</i> , 2008, 45, 137-145.	1.4	7
17	A model of root elongation by dynamic contact interaction. <i>Plant Root</i> , 2008, 2, 58-66.	0.3	5
18	Parametric analysis of lugged wheel performance for a lunar microrover by means of DEM. <i>Journal of Terramechanics</i> , 2007, 44, 153-162.	1.4	88

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19	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
20	Experimental validation of distinct element simulation for dynamic wheel-soil interaction. Journal of Terramechanics, 2007, 44, 429-437.	1.4	36
21	Modification of a mouldboard plough surface using arrays of polyethylene protuberances. Journal of Terramechanics, 2007, 44, 411-422.	1.4	27
22	An indoor traction measurement system for agricultural tires. Journal of Terramechanics, 2006, 43, 317-327.	1.4	27
23	Algorithm and implementation of soil-tire contact analysis code based on dynamic FE-DE method. Journal of Terramechanics, 2004, 41, 127-137.	1.4	116
24	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
25	Non-contact sensors for distance measurement from ground surface. Journal of Terramechanics, 1996, 33, 155-165.	1.4	16
26	A three-dimensional tire model by the finite element method. Journal of Terramechanics, 1993, 30, 21-34.	1.4	22