Vladimir V Vantsevich

List of Publications by Year
in descending order

31	224	1307594 7	1125743 13
papers	citations	h-index	g-index

31	31	31	95
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Terrain mobility performance optimization: Fundamentals for autonomous vehicle applications Part II. Computational simulation, implementation for mobility design, and validation. Journal of Terramechanics, 2022, , .	3.1	1
2	Robust Control Design for a Single-Wheel Module Operating in an Off-Road Terrain with Uncertain and Stochastic Attributes. IFAC-PapersOnLine, 2021, 54, 624-631.	0.9	1
3	A robust real-time estimation of the dynamic normal reaction for an open-link locomotion module with an E-drive. Vehicle System Dynamics, 2020, 58, 1451-1476.	3.7	3
4	Two-Level Mechatronics-Based Control Design for Concurrent Improvement of Terrain Mobility and Energy Efficiency of an Open-Link Locomotion Module. , 2020, , .		0
5	Analysis of Tire Relaxation Constants for Modeling Vehicle Traction Performance and Handling. , 2018, , .		5
6	UGV with a distributed electric driveline: Controlling for maximum slip energy efficiency on stochastic terrain. Journal of Terramechanics, 2018, 79, 41-57.	3.1	13
7	Agile tire slippage dynamics for radical enhancement of vehicle mobility. Journal of Terramechanics, 2016, 65, 14-37.	3.1	24
8	Mechatronics Implementation of Inverse Dynamics-Based Controller for an Off-Road UGV. , 2015, , .		0
9	A Central Differential Gear Ratio Optimization of a 6Ã—6 Articulated Dump Truck. SAE International Journal of Commercial Vehicles, 2015, 8, 467-478.	0.4	0
10	Road and off-road vehicle system dynamics. Understanding the future from the past. Vehicle System Dynamics, 2015, 53, 137-153.	3.7	13
11	Multi-vehicle convoy mobility in severe terrain conditions: Factor impact analysis, estimation and control strategy. Journal of Terramechanics, 2015, 61, 43-61.	3.1	7
12	Wheel Dynamics Fundamentals for Agile Tire Slippage Modeling and Control. , 2014, , .		5
13	Vehicle systems: coupled and interactive dynamics analysis. Vehicle System Dynamics, 2014, 52, 1489-1516.	3.7	14
14	6x6 UGV: Stochastic Dynamics Fundamentals for Mobility Estimation. , 2014, , .		2
15	Mobility and Energy Efficiency of Military Tactical Vehicle With Hybrid-Electric Driveline System. , 2014, , .		2
16	Fusion of driving and braking tire operational modes and analysis of traction dynamics and energy efficiency of a 4 Ã— 4 loader. Journal of Terramechanics, 2013, 50, 133-152.	3.1	19
17	Driveline Configuration and Terrain Effect on Slippage and Efficiency of a 6Ã—6/6Ã—4 Truck. , 2013, , .		1
18	Tire-Terrain Normal and Longitudinal Dynamics and Slip Power Losses of an Unmanned Ground Vehicle. , 2013, , .		3

#	Article	IF	Citations
19	Indices and Computational Strategy for Unmanned Ground Wheeled Vehicle Mobility Estimation and Enhancement. , 2013, , .		7
20	Driveline System - Suspension Interaction in a 6Ã—6 Terrain Truck. SAE International Journal of Commercial Vehicles, 2012, 5, 462-469.	0.4	2
21	Terrain Truck: Control of Wheel Rotational Velocities and Tire Slippages. , 2011, , .		5
22	Power losses and energy efficiency of multi-wheel drive vehicles: A method for evaluation. Journal of Terramechanics, 2008, 45, 89-101.	3.1	27
23	Multi-wheel drive vehicle energy/fuel efficiency and traction performance: Objective function analysis. Journal of Terramechanics, 2007, 44, 239-253.	3.1	41
24	Tire Longitudinal Elasticity and Effective Rolling Radii: Experimental Method and Data. , 2005, , .		6
25	All-Wheel Drive Vehicle Energy Efficiency Evaluation. , 2004, , .		2
26	Interaction between autonomous vehicles and road surface. International Journal of Vehicle Autonomous Systems, 2003, 1, 291.	0.2	3
27	Vehicle dynamics as the second dynamics problem. International Journal of Vehicle Design, 2001, 25, 165.	0.3	6
28	Optimisation of mass and geometric vehicle parameters for multiple drive wheel trucks. International Journal of Vehicle Design, 2001, 25, 170.	0.3	3
29	Basis for Logical Control of Circumferential Wheel Forces of Highway Trucks for Improved Traction and Fuel Effeciency. , 0, , .		2
30	Axle Drive and Brake-Based Traction Control Interaction. SAE International Journal of Commercial Vehicles, 0, 4, 49-55.	0.4	6
31	Fused Dynamics of Unmanned Ground Vehicle Systems. SAE International Journal of Commercial Vehicles, 0, 7, 406-413.	0.4	1