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List of Publications by Year
in descending order

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		430874	454955
95	1,253	18	30
papers	citations	h-index	g-index

96	96	96	710
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electric and biomethane-fuelled urban buses: comparison of environmental performance of different powertrains. International Journal of Life Cycle Assessment, 2022, 27, 238-254.	4.7	2
2	Thermal Management of Electrified Vehiclesâ€"A Review. Energies, 2022, 15, 1326.	3.1	18
3	Multi-Disciplinary Optimisation of Road Vehicle Chassis Subsystems. Energies, 2022, 15, 2172.	3.1	3
4	Optimal Lightweight Construction Principles. , 2021, , .		2
5	An Ultra-Efficient Lightweight Electric Vehicleâ€"Power Demand Analysis to Enable Lightweight Construction. Energies, 2021, 14, 766.	3.1	14
6	Study on the Driver/Steering Wheel Interaction in Emergency Situations. Applied Sciences (Switzerland), 2020, 10, 7055.	2.5	3
7	Motorcycle Structural Fatigue Monitoring Using Smart Wheels. Vehicles, 2020, 2, 648-674.	3.1	2
8	Measurement data obtained by an instrumented steering wheel for driver model development. Data in Brief, 2020, 30, 105485.	1.0	1
9	Straight running stability of automobiles: experiments with a driving simulator. Nonlinear Dynamics, 2020, 99, 2801-2818.	5.2	12
10	Further understanding of steering feedback and driver behavior through the application of an instrumented steering wheel. Proceedings, 2020, , 481-502.	0.3	2
11	Straight running â€“ stability analysis with a driving simulator. Proceedings, 2020, , 551-568.	0.3	0
12	An instrumented steering wheel for driver model development. Mechatronics, 2019, 64, 102285.	3.3	7
13	Multidisciplinary Design of Electric Vehicles Based on Hierarchical Multi-Objective Optimization. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	2.9	9
14	Motorcycle Accidents â€" A New Head and Neck Safety Device for Riders. International Journal of Automotive Technology, 2019, 20, 25-36.	1.4	0
15	Straight-ahead running of road vehicles â€“ analytical formulae including full tyre characteristics. Vehicle System Dynamics, 2019, 57, 1745-1774.	3.7	7
16	Optimal Sizing of Traction Motors Using Scalable Electric Machine Model. IEEE Transactions on Transportation Electrification, 2018, 4, 314-321.	7.8	36
17	Tire-Rim Interaction, a Semi-Analytical Tire Model. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	2.9	11
18	Straight ahead running of a nonlinear car and driver model â€“ new nonlinear behaviours highlighted. Vehicle System Dynamics, 2018, 56, 753-768.	3.7	14

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19	Analysis of the lateral dynamics of a vehicle and driver model running straight ahead. Nonlinear Dynamics, 2018, 92, 97-106.	5.2	18
20	On the Pareto Optimality of Ashby's Selection Method for Beams Under Bending. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	2.9	1
21	Hydro-Pneumatic Suspension for a 6x6 All-Terrain Amphibious Vehicle: Design and Testing. , 2018, , .		0
22	Comparative analysis of various methods for modelling surface permanent magnet machines. IET Electric Power Applications, 2017, 11, 540-547.	1.8	32
23	Analytical multi-physics methodology for fast acoustic noise prediction of an external rotor SPMSM. , 2017, , .		2
24	Improved method for field analysis of surface permanent magnet machines using Schwarzâ€“Christoffel transformation. IET Electric Power Applications, 2017, 11, 1067-1075.	1.8	32
25	Multi-Objective Optimization of Road Vehicle Passive Suspensions With Inerter. , 2016, , .		1
26	Countersteering to Recover Straight Ahead Running After a Disturbance. , 2016, , .		0
27	A comparison study of modelling techniques for permanent magnet machines. , 2016, , .		3
28	Stability of Controlled Road Vehicles: A Preliminary Fundamental Study. , 2015, , .		1
29	On the analytical derivation of the Pareto-optimal set with applications to structural design. Structural and Multidisciplinary Optimization, 2015, 51, 645-657.	3.5	16
30	Multi-objective optimization of in-wheel motor powertrain and validation using vehicle simulator. , 2015, , .		6
31	A New Electric Powertrain for Light Trucks: Indoor Testing and Advanced Simulation. , 2014, , .		0
32	Inertia Tensor and Other Mass Properties Measurement for Automotive Applications. SAE International Journal of Passenger Cars - Mechanical Systems, 2014, 7, 505-513.	0.4	2
33	Bifurcation analysis of a car and driver model. Vehicle System Dynamics, 2014, 52, 142-156.	3.7	26
34	A Race Motorcycle Frame: Advanced Design. , 2014, , .		2
35	The effect of mass properties on road accident reconstruction. International Journal of Crashworthiness, 2014, 19, 71-88.	1.9	13
36	Advances in Force and Moments Measurements by an Innovative Six-axis Load Cell. Experimental Mechanics, 2014, 54, 571-592.	2.0	32

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37	Farm tractors with suspended front axle: Anti-dive and anti-lift characteristics. Journal of Terramechanics, 2014, 56, 157-172.	3.1	12
38	InTenso+ System: Measured Centre of Gravity Locations and Inertia Tensors of Road Vehicles. , 2014, , .		0
39	Mathematical models for farm tractor rollover prediction. International Journal of Vehicle Design, 2014, 64, 280.	0.3	19
40	Experimental Assessment of the Ride Comfort of Farm Tractors. , 2013, , .		2
41	Lightweight Design of a Brake Caliper. , 2013, , .		3
42	A Method for the Assessment of the Dynamic Performance of Neck Protection Devices. , 2013, , .		3
43	Bifurcation analysis of an automobile model negotiating a curve. Vehicle System Dynamics, 2012, 50, 1539-1562.	3.7	53
44	Method for the Measurement of the Inertia Properties of Bodies with Aerofoils. Journal of Aircraft, 2012, 49, 444-452.	2.4	11
45	A Method for the Optimal Design of Automotive Rubber Components. , 2012, , .		0
46	Nonlinear Dynamics of a Road Vehicle Running into a Curve. Understanding Complex Systems, 2012, , 125-153.	0.6	7
47	Multi-objective-reliability-based optimisation of a farm tractor front axle suspension. International Journal of Heavy Vehicle Systems, 2011, 18, 257.	0.2	2
48	Refined Design of a Measuring Wheel. , 2011, , .		7
49	A New Six-Axis Load Cell. Part II: Error Analysis, Construction and Experimental Assessment of Performances. Experimental Mechanics, 2011, 51, 389-399.	2.0	38
50	A New Six-axis Load Cell. Part I: Design. Experimental Mechanics, 2011, 51, 373-388.	2.0	50
51	Parameter Sensitivity Analysis of a Passenger/Seat Model for Ride Comfort Assessment. Experimental Mechanics, 2011, 51, 1237-1249.	2.0	14
52	The Effect of Mandrel Speed upon the Residual Stress Distribution around Cold Expanded Hole. Procedia Engineering, 2011, 10, 2178-2183.	1.2	2
53	FailureAnalysisoftheUpperMountofaCarSuspension. Procedia Engineering, 2011, 10, 3567-3574.	1.2	0
54	A method for measuring the inertia properties of rigid bodies. Mechanical Systems and Signal Processing, 2011, 25, 305-318.	8.0	61

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55	Influence of Vehicle Inertia Tensor and Center of Gravity Location on Road Accident Reconstruction. , 2011, , .		3
56	A Method for Vibration and Harshness Analysis Based on Indoor Testing of Automotive Suspension Systems. SAE International Journal of Materials and Manufacturing, 2010, 3, 290-304.	0.3	3
57	Numericalâ€“experimental analysis of metal bars undergoing intermediate strain rate impacts. Computational Mechanics, 2009, 43, 191-205.	4.0	3
58	Analysis of an unusual McPherson suspension failure. Engineering Failure Analysis, 2009, 16, 1000-1010.	4.0	14
59	Global chassis control by sensing forces/moments at the wheels. International Journal of Vehicle Autonomous Systems, 2009, 7, 221.	0.2	6
60	Brake comfort â€“ a review. Vehicle System Dynamics, 2009, 47, 901-947.	3.7	74
61	A dummy for the objective ride comfort evaluation of ground vehicles. Vehicle System Dynamics, 2009, 47, 343-362.	3.7	16
62	Developing a 'no-whiplash' headrest. International Journal of Vehicle Systems Modelling and Testing, 2009, 4, 201.	0.1	2
63	Indoor testing of road vehicle suspensions. Meccanica, 2008, 43, 173-184.	2.0	12
64	Improving the active safety of road vehicles by sensing forces and moments at the wheels. Vehicle System Dynamics, 2008, 46, 957-968.	3.7	16
65	Theoretical/Experimental Study on the Vibrations of a Car Engine. SAE International Journal of Passenger Cars - Mechanical Systems, 2008, 1, 896-908.	0.4	5
66	Optimal Robust Design Optimization with Application to a Piezoelectric Brake. SAE International Journal of Passenger Cars - Mechanical Systems, 2008, 1, 1208-1216.	0.4	0
67	A Dummy for Reproducing the Human Whole Body Vibration. , 2007, , 689.		0
68	Objective Ride Comfort Measurement. , 2007, , 1125.		2
69	Farm tractor models for research and development purposes. Vehicle System Dynamics, 2007, 45, 37-60.	3.7	20
70	On the Testing of Vibration Performances of Road Vehicle Suspensions. Experimental Mechanics, 2007, 47, 485-495.	2.0	18
71	Uncertainty Bounds of Inertia Properties Required for Vehicle Dynamic Analyses. , 2007, , .		2
72	A Critical Review of Optimization Methods for Road Vehicles Design. , 2006, , .		9

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73	Multi-objective stochastic optimisation of the suspension system of road vehicles. Journal of Sound and Vibration, 2006, 298, 1055-1072.	3.9	70
74	An application of multi-objective stochastic optimisation to structural design. Structural and Multidisciplinary Optimization, 2005, 29, 272-284.	3.5	22
75	Measurement of the forces and moments acting on farm tractor pneumatic tyres. Vehicle System Dynamics, 2005, 43, 412-433.	3.7	22
76	Optimization and integration of ground vehicle systems. Vehicle System Dynamics, 2005, 43, 437-453.	3.7	30
77	A New Test Rig for Measuring the Inertia Properties of Vehicles and Their Subsystems. , 2004, , 849.		3
78	A Railway Wheelset Optimally Designed for Cold Press Fitting. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2004, 47, 502-507.	0.3	2
79	Multi-Objective Optimization of the Handling Performances of a Road Vehicle: A Fundamental Study on Tire Selection. Journal of Mechanical Design, Transactions of the ASME, 2004, 126, 687-702.	2.9	8
80	Stochastic Multi-Objective Optimisation of a Gearbox Synchroniser and Selector Mechanism. , 2003, , 113.		6
81	D403 A RAILWAY WHEELSET OPTIMALLY DESIGNED FOR COLD PRESS FITTING. The Proceedings of International Symposium on Seed-up and Service Technology for Railway and Maglev Systems STECH, 2003, 2003, 425-430.	0.0	0
82	C801 FEASIBILITY STUDY OF A PEOPLE MOVER. The Proceedings of International Symposium on Seed-up and Service Technology for Railway and Maglev Systems STECH, 2003, 2003, 561-564.	0.0	0
83	On the Optimisation of a Double Cone Synchroniser for Improved Manual Transmission Shiftability. , 2002, , 21.		4
84	Symbolic multi-objective optimisation of the dynamic behaviour of actively suspended road vehicles. International Journal of Vehicle Design, 2002, 28, 189.	0.3	11
85	ANALYTICAL DESCRIPTION AND OPTIMIZATION OF THE DYNAMIC BEHAVIOUR OF PASSIVELY SUSPENDED ROAD VEHICLES. Journal of Sound and Vibration, 2001, 245, 457-481.	3.9	139
86	On the Optimal Design of Composite Material Tubular Helical Springs. Meccanica, 2001, 36, 525-553.	2.0	23
87	Optimal & Robust Design of a Road Vehicle Suspension System. Vehicle System Dynamics, 1999, 33, 3-22.	3.7	20
88	Optimising a Car Chassis. Vehicle System Dynamics, 1999, 32, 149-170.	3.7	39
89	Friction Coefficient on Snowy and Icy Surfaces of Pneumatic Tires Fitted with or without Anti-Skid Devices. , 0, , .		2
90	Test Rig for Characterization of Automotive Suspension Systems. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 1, 568-576.	0.4	4

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91	6-Axis Measuring Wheels for Trucks or Heavy Vehicles. SAE International Journal of Commercial Vehicles, 0, 7, 141-149.	0.4	4
92	Lightweight Seat Design and Crash Simulations. , 0, , .		0
93	Race Motorcycle Smart Wheel. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 8, 119-127.	0.4	7
94	Bifurcation Analysis of a Car Model Running on an Even Surface - A Fundamental Study for Addressing Automomous Vehicle Dynamics. SAE International Journal of Vehicle Dynamics, Stability, and NVH, 0, 1, 326-337.	0.5	12
95	Instrumented Steering Wheel for Accurate ADAS Development. , 0, , .		4