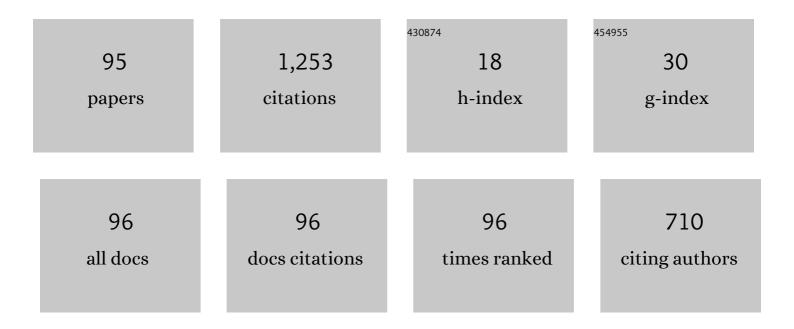
## Giampiero Rm Mastinu

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Brake comfort – a review. Vehicle System Dynamics, 2009, 47, 901-947.	3.7	74
3	Multi-objective stochastic optimisation of the suspension system of road vehicles. Journal of Sound and Vibration, 2006, 298, 1055-1072.	3.9	70
4	A method for measuring the inertia properties of rigid bodies. Mechanical Systems and Signal Processing, 2011, 25, 305-318.	8.0	61
5	Bifurcation analysis of an automobile model negotiating a curve. Vehicle System Dynamics, 2012, 50, 1539-1562.	3.7	53
6	A New Six-axis Load Cell. Part I: Design. Experimental Mechanics, 2011, 51, 373-388.	2.0	50
7	Optimising a Car Chassis. Vehicle System Dynamics, 1999, 32, 149-170.	3.7	39
8	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
9	Optimal Sizing of Traction Motors Using Scalable Electric Machine Model. IEEE Transactions on Transportation Electrification, 2018, 4, 314-321.	7.8	36
10	Advances in Force and Moments Measurements by an Innovative Six-axis Load Cell. Experimental Mechanics, 2014, 54, 571-592.	2.0	32
11	Comparative analysis of various methods for modelling surface permanent magnet machines. IET Electric Power Applications, 2017, 11, 540-547.	1.8	32
12	Improved method for field analysis of surface permanent magnet machines using Schwarz–Christoffel transformation. IET Electric Power Applications, 2017, 11, 1067-1075.	1.8	32
13	Optimization and integration of ground vehicle systems. Vehicle System Dynamics, 2005, 43, 437-453.	3.7	30
14	Bifurcation analysis of a car and driver model. Vehicle System Dynamics, 2014, 52, 142-156.	3.7	26
15	On the Optimal Design of Composite Material Tubular Helical Springs. Meccanica, 2001, 36, 525-553.	2.0	23
16	An application of multi-objective stochastic optimisation to structural design. Structural and Multidisciplinary Optimization, 2005, 29, 272-284.	3.5	22
17	Measurement of the forces and moments acting on farm tractor pneumatic tyres. Vehicle System Dynamics, 2005, 43, 412-433.	3.7	22
18	Optimal & Robust Design of a Road Vehicle Suspension System. Vehicle System Dynamics, 1999, 33, 3-22.	3.7	20

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19	Farm tractor models for research and development purposes. Vehicle System Dynamics, 2007, 45, 37-60.	3.7	20
20	Mathematical models for farm tractor rollover prediction. International Journal of Vehicle Design, 2014, 64, 280.	0.3	19
21	On the Testing of Vibration Performances of Road Vehicle Suspensions. Experimental Mechanics, 2007, 47, 485-495.	2.0	18
22	Analysis of the lateral dynamics of a vehicle and driver model running straight ahead. Nonlinear Dynamics, 2018, 92, 97-106.	5.2	18
23	Thermal Management of Electrified Vehicles—A Review. Energies, 2022, 15, 1326.	3.1	18
24	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
25	A dummy for the objective ride comfort evaluation of ground vehicles. Vehicle System Dynamics, 2009, 47, 343-362.	3.7	16
26	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
27	Analysis of an unusual McPherson suspension failure. Engineering Failure Analysis, 2009, 16, 1000-1010.	4.0	14
28	Parameter Sensitivity Analysis of a Passenger/Seat Model for Ride Comfort Assessment. Experimental Mechanics, 2011, 51, 1237-1249.	2.0	14
29	Straight ahead running of a nonlinear car and driver model – new nonlinear behaviours highlighted. Vehicle System Dynamics, 2018, 56, 753-768.	3.7	14
30	An Ultra-Efficient Lightweight Electric Vehicle—Power Demand Analysis to Enable Lightweight Construction. Energies, 2021, 14, 766.	3.1	14
31	The effect of mass properties on road accident reconstruction. International Journal of Crashworthiness, 2014, 19, 71-88.	1.9	13
32	Indoor testing of road vehicle suspensions. Meccanica, 2008, 43, 173-184.	2.0	12
33	Farm tractors with suspended front axle: Anti-dive and anti-lift characteristics. Journal of Terramechanics, 2014, 56, 157-172.	3.1	12
34	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
35	Straight running stability of automobiles: experiments with a driving simulator. Nonlinear Dynamics, 2020, 99, 2801-2818.	5.2	12
36	Symbolic multi-objective optimisation of the dynamic behaviour of actively suspended road vehicles. International Journal of Vehicle Design, 2002, 28, 189.	0.3	11

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#	Article	IF	CITATIONS
37	Method for the Measurement of the Inertia Properties of Bodies with Aerofoils. Journal of Aircraft, 2012, 49, 444-452.	2.4	11
38	Tire-Rim Interaction, a Semi-Analytical Tire Model. Journal of Mechanical Design, Transactions of the ASME, 2018, 140, .	2.9	11
39	A Critical Review of Optimization Methods for Road Vehicles Design. , 2006, , .		9
40	Multidisciplinary Design of Electric Vehicles Based on Hierarchical Multi-Objective Optimization. Journal of Mechanical Design, Transactions of the ASME, 2019, 141, .	2.9	9
41	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
42	Refined Design of a Measuring Wheel. , 2011, , .		7
43	Race Motorcycle Smart Wheel. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 8, 119-127.	0.4	7
44	An instrumented steering wheel for driver model development. Mechatronics, 2019, 64, 102285.	3.3	7
45	Straight-ahead running of road vehicles – analytical formulae including full tyre characteristics. Vehicle System Dynamics, 2019, 57, 1745-1774.	3.7	7
46	Nonlinear Dynamics of a Road Vehicle Running into a Curve. Understanding Complex Systems, 2012, , 125-153.	0.6	7
47	Stochastic Multi-Objective Optimisation of a Gearbox Synchroniser and Selector Mechanism. , 2003, , 113.		6
48	Clobal chassis control by sensing forces/moments at the wheels. International Journal of Vehicle Autonomous Systems, 2009, 7, 221.	0.2	6
49	Multi-objective optimization of in-wheel motor powertrain and validation using vehicle simulator. , 2015, , .		6
50	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
51	On the Optimisation of a Double Cone Synchroniser for Improved Manual Transmission Shiftability. , 2002, , 21.		4
52	Test Rig for Characterization of Automotive Suspension Systems. SAE International Journal of Passenger Cars - Mechanical Systems, 0, 1, 568-576.	0.4	4
53	6-Axis Measuring Wheels for Trucks or Heavy Vehicles. SAE International Journal of Commercial Vehicles, 0, 7, 141-149.	0.4	4

54 Instrumented Steering Wheel for Accurate ADAS Development. , 0, , .

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#	Article	IF	CITATIONS
55	A New Test Rig for Measuring the Inertia Properties of Vehicles and Their Subsystems. , 2004, , 849.		3
56	Numerical–experimental analysis of metal bars undergoing intermediate strain rate impacts. Computational Mechanics, 2009, 43, 191-205.	4.0	3
57	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
58	Influence of Vehicle Inertia Tensor and Center of Gravity Location on Road Accident Reconstruction. , 2011, , .		3
59	Lightweight Design of a Brake Caliper. , 2013, , .		3
60	A Method for the Assessment of the Dynamic Performance of Neck Protection Devices. , 2013, , .		3
61	A comparison study of modelling techniques for permanent magnet machines. , 2016, , .		3
62	Study on the Driver/Steering Wheel Interaction in Emergency Situations. Applied Sciences (Switzerland), 2020, 10, 7055.	2.5	3
63	Multi-Disciplinary Optimisation of Road Vehicle Chassis Subsystems. Energies, 2022, 15, 2172.	3.1	3
64	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
65	Friction Coefficient on Snowy and Icy Surfaces of Pneumatic Tires Fitted with or without Anti-Skid Devices. , 0, , .		2
66	Objective Ride Comfort Measurement. , 2007, , 1125.		2
67	Developing a 'no-whiplash' headrest. International Journal of Vehicle Systems Modelling and Testing, 2009, 4, 201.	0.1	2
68	Multi-objective-reliability-based optimisation of a farm tractor front axle suspension. International Journal of Heavy Vehicle Systems, 2011, 18, 257.	0.2	2
69	The Effect of Mandrel Speed upon the Residual Stress Distribution around Cold Expanded Hole. Procedia Engineering, 2011, 10, 2178-2183.	1.2	2
70	Experimental Assessment of the Ride Comfort of Farm Tractors. , 2013, , .		2
71	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

72 A Race Motorcycle Frame: Advanced Design. , 2014, , .

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73	Analytical multi-physics methodology for fast acoustic noise prediction of an external rotor SPMSM. , 2017, , .		2
74	Motorcycle Structural Fatigue Monitoring Using Smart Wheels. Vehicles, 2020, 2, 648-674.	3.1	2
75	Optimal Lightweight Construction Principles. , 2021, , .		2
76	Uncertainty Bounds of Inertia Properties Required for Vehicle Dynamic Analyses. , 2007, , .		2
77	Further understanding of steering feedback and driver behavior through the application of an instrumented steering wheel. Proceedings, 2020, , 481-502.	0.3	2
78	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
79	Stability of Controlled Road Vehicles: A Preliminary Fundamental Study. , 2015, , .		1
80	Multi-Objective Optimization of Road Vehicle Passive Suspensions With Inerter. , 2016, , .		1
81	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
82	Measurement data obtained by an instrumented steering wheel for driver model development. Data in Brief, 2020, 30, 105485.	1.0	1
83	A Dummy for Reproducing the Human Whole Body Vibration. , 2007, , 689.		0
84	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
85	FailureAnalysisoftheUpperMountofaCarSuspension. Procedia Engineering, 2011, 10, 3567-3574.	1.2	Ο
86	A Method for the Optimal Design of Automotive Rubber Components. , 2012, , .		0
87	A New Electric Powertrain for Light Trucks: Indoor Testing and Advanced Simulation. , 2014, , .		0
88	InTenso+ System: Measured Centre of Gravity Locations and Inertia Tensors of Road Vehicles. , 2014, , .		0
89	Lightweight Seat Design and Crash Simulations. , 0, , .		0

90 Countersteering to Recover Straight Ahead Running After a Disturbance. , 2016, , .

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91	Hydro-Pneumatic Suspension for a 6x6 All-Terrain Amphibious Vehicle: Design and Testing. , 2018, , .		0
92	Motorcycle Accidents — A New Head and Neck Safety Device for Riders. International Journal of Automotive Technology, 2019, 20, 25-36.	1.4	0
93	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	Ο
94	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
95	Straight running – stability analysis with a driving simulator. Proceedings, 2020, , 551-568.	0.3	0