Mehdi Ahmadian

List of Publications by Year
in descending order

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41	1,581	331670 21	414414 32
papers	citations	h-index	g-index

42	42	42	1071
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A statistical evaluation of multiple regression models for contact dynamics in rail vehicles using roller rig data. International Journal of Rail Transportation, 2022, 10, 717-729.	2.7	1
2	A review of vehicle active safety control methods: From antilock brakes to semiautonomy. JVC/Journal of Vibration and Control, 2021, 27, 1683-1712.	2.6	28
3	A Statistical Approach to Evaluating Wheel-Rail Contact Dynamics. , 2021, , .		1
4	Isolation Properties of Low-Profile Magnetorheological Fluid Mounts. Fluids, 2021, 6, 164.	1.7	1
5	Wheel-Rail Contact Patch Geometry Measurement and Shape Analysis Under Various Loading Conditions. , 2020, , .		2
6	Failure mode and effects analysis of dual levelling valve airspring suspensions on truck dynamics. Vehicle System Dynamics, 2019, 57, 617-635.	3.7	27
7	Integrated Vehicle Dynamics System through Coordinating Active Aerodynamics Control, Active Rear Steering, Torque Vectoring and Hydraulically Interconnected Suspension. International Journal of Automotive Technology, 2019, 20, 903-915.	1.4	23
8	A simulation-based comparative study on lateral characteristics of trucks with double and triple trailers. International Journal of Vehicle Safety, 2019, 11, 136.	0.2	13
9	Achieving anti-roll bar effect through air management in commercial vehicle pneumatic suspensions. Vehicle System Dynamics, 2019, 57, 1775-1794.	3.7	29
10	Evaluating the Effect of Natural Third Body Layers on Friction Using the Virginia Tech Roller Rig. , 2019, , .		2
11	Virginia Tech-Federal Railroad Administration Roller Rig Measurement Capabilities and Baseline Measurements. , 2019, , .		2
12	Modeling of rolling contact fatigue in rails at the microstructural level. Wear, 2018, 406-407, 205-217.	3.1	30
13	On Effective Electromagnetic Shielding of Modern Pulse Width Modulating Adjustable Speed Drives. IEEE Transactions on Electromagnetic Compatibility, 2018, 60, 875-884.	2.2	7
14	Coupled computational fluid and multi-body dynamics suspension boat modeling. JVC/Journal of Vibration and Control, 2018, 24, 4260-4281.	2.6	4
15	Numerical comparison of two methods for integration of active rear steering, torque vectoring and hydraulically interconnected suspension. International Journal of Vehicle Systems Modelling and Testing, 2018, 13, 125.	0.1	3
16	Magneto-rheological suspensions for improving ground vehicleâ€™s ride comfort, stability, and handling. Vehicle System Dynamics, 2017, 55, 1618-1642.	3.7	30
17	Pressure Distribution of a Multidisc Clutch Suffering Frictionally Induced Thermal Load. Tribology Transactions, 2016, 59, 983-992.	2.0	24
18	A survey of wheelâ€“rail contact models for rail vehicles. Vehicle System Dynamics, 2016, 54, 386-428.	3.7	110

#	Article	IF	Citations
19	The Development of a Roller Rig for Experimental Evaluation of Contact Mechanics for Railway Vehicles. , 2015, , .		5
20	On the Application of Roller Rigs for Studying Rail Vehicle Systems. , 2013, , .		8
21	Nonlinear Dynamical Analysis on Four Semi-Active Dynamic Vibration Absorbers with Time Delay. Shock and Vibration, 2013, 20, 649-663.	0.6	22
22	Editorsâ€™ perspectives: road vehicle suspension design, dynamics, and control. Vehicle System Dynamics, 2011, 49, 3-28.	3.7	297
23	Optimal preview game theory approach to vehicle stability controller design. Vehicle System Dynamics, 2011, 49, 1967-1979.	3.7	54
24	Non-dimensionalised closed-form parametric analysis of semi-active vehicle suspensions using a quarter-car model. Vehicle System Dynamics, 2011, 49, 219-235.	3.7	15
25	Efficient empirical modelling of a high-performance shock absorber for vehicle dynamics studies. Vehicle System Dynamics, 2010, 48, 481-505.	3.7	19
26	Optimal VSC design based on Nash strategy for differential 2-player games. , 2009, , .		9
27	Experimental analysis of magnetorheological dampers when subjected to impact and shock loading. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1978-1985.	3.3	79
28	Analysis and Strategy for Superharmonics With Semiactive Suspension Control Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 795-803.	1.6	25
29	Qualitative Analysis of Magneto-Rheological Tuned Vibration Absorbers: Experimental Approach. Journal of Intelligent Material Systems and Structures, 2007, 18, 1137-1142.	2.5	19
30	QUALITATIVE ANALYSIS OF MAGNETO-RHEOLOGICAL TUNED VIBRATION ABSORBERS: EXPERIMENTAL APPROACH. , 2007, , .		0
31	Modeling Multibody Systems with Uncertainties. Part I: Theoretical and Computational Aspects. Multibody System Dynamics, 2006, 15, 369-391.	2.7	144
32	Modeling multibody systems with uncertainties. Part II: Numerical applications. Multibody System Dynamics, 2006, 15, 241-262.	2.7	117
33	Dynamic performance analysis of nonlinear tuned vibration absorbers. , 2006, , .		0
34	A Temperature-based Controller for a Shape Memory Alloy Actuator. Journal of Vibration and Acoustics, Transactions of the ASME, 2005, 127, 285-291.	1.6	31
35	An Adaptive Semiactive Control Algorithm for Magnetorheological Suspension Systems. Journal of Vibration and Acoustics, Transactions of the ASME, 2005, 127, 493-502.	1.6	74
36	A Hybrid Control Policy for Semi-Active Vehicle Suspensions. Shock and Vibration, 2003, 10, 59-69.	0.6	45

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37	An Analytical Study of Fire Out of Battery Using Magneto Rheological Dampers. Shock and Vibration, 2002, 9, 129-142.	0.6	31
38	An Experimental Evaluation of Smart Damping Materials for Reducing Structural Noise and Vibrations. Journal of Vibration and Acoustics, Transactions of the ASME, 2001, 123, 533-535.	1.6	11
39	On the Isolation Properties of Semiactive Dampers. JVC/Journal of Vibration and Control, 1999, 5, 217-232.	2.6	55
40	Hopf Bifurcation and Hunting Behavior in a Rail Wheelset with Flange Contact. Nonlinear Dynamics, 1998, 15, 15-30.	5.2	51
41	Effect of System Nonlinearities on Locomotive Bogie Hunting Stability. Vehicle System Dynamics, 1998, 29, 365-384.	3.7	45