

Madalina Dumitriu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7171023/publications.pdf>

Version: 2024-02-01

47
papers

375
citations

840776

11
h-index

940533

16
g-index

47
all docs

47
docs citations

47
times ranked

144
citing authors

#	ARTICLE	IF	CITATIONS
1	A new passive approach to reducing the carbody vertical bending vibration of railway vehicles. <i>Vehicle System Dynamics</i> , 2017, 55, 1787-1806.	3.7	48
2	Using the Greenâ€™s functions method to study wheelset/ballasted track vertical interaction. <i>Mathematical and Computer Modelling</i> , 2011, 54, 261-279.	2.0	29
3	On the dynamics of interaction between a moving mass and an infinite one-dimensional elastic structure at the stability limit. <i>Journal of Sound and Vibration</i> , 2011, 330, 3729-3743.	3.9	21
4	Instability of an oscillator moving along a Timoshenko beam on viscoelastic foundation. <i>Nonlinear Dynamics</i> , 2012, 67, 1273-1293.	5.2	20
5	On the Critical Points of Vertical Vibration in a Railway Vehicle. <i>Archive of Mechanical Engineering</i> , 2014, 61, 609-625.	0.7	20
6	Influences of Carbody Vertical Flexibility on Ride Comfort of Railway Vehicles. <i>Archive of Mechanical Engineering</i> , 2017, 64, 219-238.	0.7	15
7	Fault detection of damper in railway vehicle suspension based on the cross-correlation analysis of bogie accelerations. <i>Mechanics and Industry</i> , 2019, 20, 102.	1.3	15
8	Modeling of Railway Vehicles for Virtual Homologation from Dynamic Behavior Perspective. <i>Applied Mechanics and Materials</i> , 0, 371, 647-651.	0.2	14
9	Study on the Evaluation Methods of the Vertical Ride Comfort of Railway Vehicleâ€™s Mean Comfort Method and Sperlingâ€™s Method. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3953.	2.5	14
10	On the Rolling Noise Reduction by Using the Rail Damper. <i>Journal of Engineering Science and Technology Review</i> , 2017, 10, 87-95.	0.4	14
11	Influence of the Longitudinal and Lateral Suspension Damping on the Vibration Behaviour in the Railway Vehicles. <i>Archive of Mechanical Engineering</i> , 2015, 62, 115-140.	0.7	13
12	Influence of Suspended Equipment on the Carbody Vertical Vibration Behaviour of High-Speed Railway Vehicles. <i>Archive of Mechanical Engineering</i> , 2016, 63, 145-162.	0.7	12
13	Ride comfort enhancement in railway vehicle by the reduction of the car body structural flexural vibration. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 227, 012042.	0.6	12
14	Correlation between Ride Comfort Index and Sperling's Index for Evaluation Ride Comfort in Railway Vehicles. <i>Applied Mechanics and Materials</i> , 0, 880, 201-206.	0.2	12
15	Effect of the Anti-Yaw Damper on Carbody Vertical Vibration and Ride Comfort of Railway Vehicle. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8167.	2.5	11
16	Condition Monitoring of the Dampers in the Railway Vehicle Suspension Based on the Vibrations Response Analysis of the Bogie. <i>Sensors</i> , 2022, 22, 3290.	3.8	9
17	Study on Improving the Ride Comfort in Railway Vehicles Using Anti-Bending Dampers. <i>Applied Mechanics and Materials</i> , 0, 880, 207-212.	0.2	7
18	Numerical Synthesis of the Track Alignment and Applications. Part I: The Synthesis Method. <i>Transport Problems</i> , 2016, 11, 19-28.	0.6	7

#	ARTICLE	IF	CITATIONS
19	Cross-Correlation Analysis of the Vertical Accelerations of Railway Vehicle Bogie. <i>Procedia Manufacturing</i> , 2019, 32, 114-120.	1.9	6
20	Influence of the Primary Suspension Damping on the Ride Comfort in the Railway Vehicles. <i>Materials Science Forum</i> , 2019, 957, 53-62.	0.3	6
21	Experimental Analysis of the Vertical Vibration of the Railway Bogie During Braking. <i>Procedia Manufacturing</i> , 2020, 46, 49-54.	1.9	6
22	Evaluation of the vertical vibrations behaviour of the bogie at failure of the dampers in the primary suspension of the railway vehicle. <i>MATEC Web of Conferences</i> , 2018, 178, 06001.	0.2	5
23	Experimental Verification of Method to Synthesize the Track Vertical Irregularities. <i>Romanian Journal of Transport Infrastructure</i> , 2018, 7, 40-60.	0.3	5
24	Effect of the asymmetry of suspension damping on the ride comfort of railway vehicles. <i>Australian Journal of Mechanical Engineering</i> , 2022, 20, 1379-1391.	2.1	4
25	Influence of Bending Vibration on the Vertical Vibration Behaviour of Railway Vehicles Carbody. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8502.	2.5	4
26	Numerical analysis of the influence of lateral suspension parameters on the ride quality of railway vehicles. <i>Journal of Theoretical and Applied Mechanics</i> , 0, , 1231.	0.5	4
27	Numerical study on the influence of suspended equipments on the ride comfort in high speed railway vehicles. <i>Scientia Iranica</i> , 2019, ,	0.4	4
28	Study on the Effect of Damping Asymmetry of the Vertical Suspension on the Railway Bogie Vibrations. <i>Symmetry</i> , 2022, 14, 327.	2.2	4
29	Wheel-rail joint geometry. , 2010, , .		3
30	A Nonlinear Model of Mix Coil Spring " Rubber for Vertical Suspension of Railway Vehicle. <i>Archive of Mechanical Engineering</i> , 2016, 63, 25-44.	0.7	3
31	About the influence of wheel slide protection devices action on longitudinal dynamic of trains. <i>MATEC Web of Conferences</i> , 2017, 112, 07012.	0.2	3
32	Critical points numerical analysis of ride comfort of the flexible railway carbody. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 682, 012004.	0.6	3
33	Vertical bending vibration analysis of the car body of railway vehicle. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 564, 012104.	0.6	3
34	On-Line Running Tests for Validating the Numerical Simulations of the Vertical Dynamic Behavior in Railway Vehicles. <i>Applied Mechanics and Materials</i> , 0, 657, 609-613.	0.2	2
35	On the Wheelset Vibration due to the Stochastic Track Vertical Irregularities. <i>Applied Mechanics and Materials</i> , 0, 809-810, 1037-1042.	0.2	2
36	Approaches for reducing structural vibration of the carbody railway vehicles. <i>MATEC Web of Conferences</i> , 2017, 112, 07006.	0.2	2

#	ARTICLE	IF	CITATIONS
37	Parametric study of the distribution of longitudinal dynamic forces developed in the train body using hysteretic characteristics of Ringfeder buffers. MATEC Web of Conferences, 2017, 112, 07011.	0.2	2
38	Influence of the interference of bounce and pitch vibrations upon the dynamic behaviour in the bogie of a railway vehicle. IOP Conference Series: Materials Science and Engineering, 2018, 400, 042020.	0.6	2
39	Numerical Analysis of the Vertical Bogie Accelerations at Failure of the Damper in the Primary Suspension of the Railway Vehicle. Materials Science Forum, 2019, 957, 43-52.	0.3	2
40	Experimental Analysis of Vertical Vibrations of a Railway Bogie. Communications - Scientific Letters of the University of Zilina, 2021, 23, B299-B307.	0.6	2
41	Modelling of structural flexibility of the railway vehicles carbody. MATEC Web of Conferences, 2017, 112, 07007.	0.2	1
42	Numerical study on the influence of primary suspension damping upon the dynamic behaviour of railway vehicles. IOP Conference Series: Materials Science and Engineering, 2018, 444, 042001.	0.6	1
43	Study regarding the dynamic loads upon the track at failure of the dampers in the primary suspension of the railway vehicle. IOP Conference Series: Materials Science and Engineering, 2018, 400, 042019.	0.6	1
44	On the longitudinal vibration of the railway bogie. MATEC Web of Conferences, 2019, 290, 08008.	0.2	1
45	NUMERICAL SYNTHESIS OF THE TRACK ALIGNMENT AND APPLICATIONS. PART II: THE SIMULATION OF THE DYNAMIC BEHAVIOUR IN THE RAILWAY VEHICLES. Transport Problems, 2017, 11, 5-16.	0.6	1
46	Numerical study on the influence of suspension damping on the bogie vertical vibration. IOP Conference Series: Materials Science and Engineering, 2019, 564, 012105.	0.6	0
47	Analysis on the Applicability Domain of the Linear Models During Study of the Lateral Dynamic Behaviour of the Railway Vehicles. Journal of Engineering Science and Technology Review, 2017, 10, 154-169.	0.4	0