# Madalina Dumitriu

List of Publications by Year
in descending order

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| 47 | 375 | 840776 | 940533 |
|---|---|---|---|
| papers | citations | 11 h-index | 16 g-index |

| 47 | 47 | 47 | 144 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effect of the asymmetry of suspension damping on the ride comfort of railway vehicles. Australian Journal of Mechanical Engineering, 2022, 20, 1379-1391. | 2.1 | 4 |
| 2 | Study on the Effect of Damping Asymmetry of the Vertical Suspension on the Railway Bogie Vibrations. Symmetry, 2022, 14, 327. | 2.2 | 4 |
| 3 | Condition Monitoring of the Dampers in the Railway Vehicle Suspension Based on the Vibrations Response Analysis of the Bogie. Sensors, 2022, 22, 3290. | 3.8 | 9 |
| 4 | Study on the Evaluation Methods of the Vertical Ride Comfort of Railway Vehicleâ€"Mean Comfort Method and Sperlingâ€™s Method. Applied Sciences (Switzerland), 2021, 11, 3953. | 2.5 | 14 |
| 5 | Influence of Bending Vibration on the Vertical Vibration Behaviour of Railway Vehicles Carbody. Applied Sciences (Switzerland), 2021, 11, 8502. | 2.5 | 4 |
| 6 | Experimental Analysis of Vertical Vibrations of a Railway Bogie. Communications - Scientific Letters of the University of Zilina, 2021, 23, B299-B307. | 0.6 | 2 |
| 7 | Effect of the Anti-Yaw Damper on Carbody Vertical Vibration and Ride Comfort of Railway Vehicle. Applied Sciences (Switzerland), 2020, 10, 8167. | 2.5 | 11 |
| 8 | Experimental Analysis of the Vertical Vibration of the Railway Bogie During Braking. Procedia Manufacturing, 2020, 46, 49-54. | 1.9 | 6 |
| 9 | Cross-Correlation Analysis of the Vertical Accelerations of Railway Vehicle Bogie. Procedia Manufacturing, 2019, 32, 114-120. | 1.9 | 6 |
| 10 | On the longitudinal vibration of the railway bogie. MATEC Web of Conferences, 2019, 290, 08008. | 0.2 | 1 |
| 11 | Fault detection of damper in railway vehicle suspension based on the cross-correlation analysis of bogie accelerations. Mechanics and Industry, 2019, 20, 102. | 1.3 | 15 |
| 12 | Critical points numerical analysis of ride comfort of the flexible railway carbody. IOP Conference Series: Materials Science and Engineering, 2019, 682, 012004. | 0.6 | 3 |
| 13 | 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 |
| 14 | Influence of the Primary Suspension Damping on the Ride Comfort in the Railway Vehicles. Materials Science Forum, 2019, 957, 53-62. | 0.3 | 6 |
| 15 | Vertical bending vibration analysis of the car body of railway vehicle. IOP Conference Series: Materials Science and Engineering, 2019, 564, 012104. | 0.6 | 3 |
| 16 | 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 |
| 17 | Numerical study on the influence of suspended equipments on the ride comfort in high speed railway vehicles. Scientia Iranica, 2019, . | 0.4 | 4 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Evaluation of the vertical vibrations behaviour of the bogie at failure of the dampers in the primary suspension of the railway vehicle. MATEC Web of Conferences, 2018, 178, 06001. | 0.2 | 5 |
| 21 | 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 |
| 22 | Experimental Verification of Method to Synthesize the Track Vertical Irregularities. Romanian Journal of Transport Infrastructure, 2018, 7, 40-60. | 0.3 | 5 |
| 23 | A new passive approach to reducing the carbody vertical bending vibration of railway vehicles. Vehicle System Dynamics, 2017, 55, 1787-1806. | 3.7 | 48 |
| 24 | Ride comfort enhancement in railway vehicle by the reduction of the car body structural flexural vibration. IOP Conference Series: Materials Science and Engineering, 2017, 227, 012042. | 0.6 | 12 |
| 25 | Influences of Carbody Vertical Flexibility on Ride Comfort of Railway Vehicles. Archive of Mechanical Engineering, 2017, 64, 219-238. | 0.7 | 15 |
| 26 | Approaches for reducing structural vibration of the carbody railway vehicles. MATEC Web of Conferences, 2017, 112, 07006. | 0.2 | 2 |
| 27 | 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 |
| 28 | About the influence of wheel slide protection devices action on longitudinal dynamic of trains. MATEC Web of Conferences, 2017, 112, 07012. | 0.2 | 3 |
| 29 | Modelling of structural flexibility of the railway vehicles carbody. MATEC Web of Conferences, 2017, 112, 07007. | 0.2 | 1 |
| 30 | On the Rolling Noise Reduction by Using the Rail Damper. Journal of Engineering Science and Technology Review, 2017, 10, 87-95. | 0.4 | 14 |
| 31 | 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 |
| 32 | 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 |
| 33 | Influence of Suspended Equipment on the Carbody Vertical Vibration Behaviour of High-Speed Railway Vehicles. Archive of Mechanical Engineering, 2016, 63, 145-162. | 0.7 | 12 |
| 34 | A Nonlinear Model of Mix Coil Spring â€“ Rubber for Vertical Suspension of Railway Vehicle. Archive of Mechanical Engineering, 2016, 63, 25-44. | 0.7 | 3 |
| 35 | Numerical Synthesis of the Track Alignment and Applications. Part I: The Synthesis Method. Transport Problems, 2016, 11, 19-28. | 0.6 | 7 |
| 36 | Influence of the Longitudinal and Lateral Suspension Damping on the Vibration Behaviour in the Railway Vehicles. Archive of Mechanical Engineering, 2015, 62, 115-140. | 0.7 | 13 |

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|---|---|---|---|
| 37 | On the Critical Points of Vertical Vibration in a Railway Vehicle. Archive of Mechanical Engineering, 2014, 61, 609-625. | 0.7 | 20 |
| 38 | Instability of an oscillator moving along a Timoshenko beam on viscoelastic foundation. Nonlinear Dynamics, 2012, 67, 1273-1293. | 5.2 | 20 |
| 39 | On the dynamics of interaction between a moving mass and an infinite one-dimensional elastic structure at the stability limit. Journal of Sound and Vibration, 2011, 330, 3729-3743. | 3.9 | 21 |
| 40 | Using the Greenâ€™s functions method to study wheelset/ballasted track vertical interaction. Mathematical and Computer Modelling, 2011, 54, 261-279. | 2.0 | 29 |
| 41 | Wheel-rail joint geometry. , 2010, , . | | 3 |
| 42 | Modeling of Railway Vehicles for Virtual Homologation from Dynamic Behavior Perspective. Applied Mechanics and Materials, 0, 371, 647-651. | 0.2 | 14 |
| 43 | On-Line Running Tests for Validating the Numerical Simulations of the Vertical Dynamic Behavior in Railway Vehicles. Applied Mechanics and Materials, 0, 657, 609-613. | 0.2 | 2 |
| 44 | On the Wheelset Vibration due to the Stochastic Track Vertical Irregularities. Applied Mechanics and Materials, 0, 809-810, 1037-1042. | 0.2 | 2 |
| 45 | Study on Improving the Ride Comfort in Railway Vehicles Using Anti-Bending Dampers. Applied Mechanics and Materials, 0, 880, 207-212. | 0.2 | 7 |
| 46 | Correlation between Ride Comfort Index and Sperling's Index for Evaluation Ride Comfort in Railway Vehicles. Applied Mechanics and Materials, 0, 880, 201-206. | 0.2 | 12 |
| 47 | Numerical analysis of the influence of lateral suspension parameters on the ride quality of railway vehicles. Journal of Theoretical and Applied Mechanics, 0, , 1231. | 0.5 | 4 |