

# Traian Mazilu

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

250  
citations

933410

10  
h-index

940516

16  
g-index

21  
all docs

21  
docs citations

21  
times ranked

129  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transition radiation in an infinite one-dimensional structure interacting with a moving oscillator—the Green's function method. Journal of Sound and Vibration, 2021, 492, 115804.	3.9	12
2	Rail Damper Functionality-Modelling and Experimental Determinations. Materials Science Forum, 2019, 957, 23-32.	0.3	0
3	On the Modelling of Rail Joint. Materials Science Forum, 2019, 957, 33-42.	0.3	3
4	Rail Joint Model Based on the Euler-Bernoulli Beam Theory. Romanian Journal of Transport Infrastructure, 2019, 8, 16-29.	0.3	1
5	Influence of the rail dampers on the frequencydomain response of the rail. MATEC Web of Conferences, 2018, 178, 06021.	0.2	0
6	Dynamics of a beam on elastic foundation - impact of the bilinear characteristic of the foundation upon the propagation of the bending wave. MATEC Web of Conferences, 2018, 178, 06008.	0.2	1
7	Testing the Functionality and Performance of a Rail Damper. Romanian Journal of Transport Infrastructure, 2018, 7, 31-39.	0.3	0
8	Interaction between moving tandem wheels and an infinite rail with periodic supports – Green's matrices of the track method in stationary reference frame. Journal of Sound and Vibration, 2017, 401, 233-254.	3.9	20
9	The dynamics of an infinite uniform Euler-Bernoulli beam on bilinear viscoelastic foundation under moving loads. Procedia Engineering, 2017, 199, 2561-2566.	1.2	16
10	On the vertical interaction between a three-axle bogie and track. MATEC Web of Conferences, 2017, 112, 06014.	0.2	0
11	Impact of the rail-pad multi-discrete model upon the prediction of the rail response. IOP Conference Series: Materials Science and Engineering, 2017, 227, 012079.	0.6	4
12	On the stick-slip vibration in the suspension of a freight wagon. MATEC Web of Conferences, 2017, 112, 07013.	0.2	2
13	Geometric Model of a Railway Wheel with Irregular Contour. Advances in Intelligent Systems and Computing, 2016, , 155-165.	0.6	7
14	Instability of a train of oscillators moving along a beam on a viscoelastic foundation. Journal of Sound and Vibration, 2013, 332, 4597-4619.	3.9	28
15	Instability of an oscillator moving along a Timoshenko beam on viscoelastic foundation. Nonlinear Dynamics, 2012, 67, 1273-1293.	5.2	20
16	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
17	Using the Green's functions method to study wheelset/ballasted track vertical interaction. Mathematical and Computer Modelling, 2011, 54, 261-279.	2.0	29
18	Interaction between a moving two-mass oscillator and an infinite homogeneous structure: Green's functions method. Archive of Applied Mechanics, 2010, 80, 909-927.	2.2	21

#	ARTICLE	IF	CITATIONS
19	Prediction of the interaction between a simple moving vehicle and an infinite periodically supported rail – Green's functions approach. Vehicle System Dynamics, 2010, 48, 1021-1042.	3.7	12
20	Wheel-rail joint geometry. , 2010, , .		3
21	Green's functions for analysis of dynamic response of wheel/rail to vertical excitation. Journal of Sound and Vibration, 2007, 306, 31-58.	3.9	50