

Maoru Chi

List of Publications by Year in descending order

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32
papers

522
citations

687363

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all docs

32
docs citations

32
times ranked

196
citing authors

#	ARTICLE	IF	CITATIONS
1	A study of formation of high order wheel polygonalization. <i>Wear</i> , 2019, 424-425, 1-14.	3.1	63
2	Influence of polygonal wear of railway wheels on the wheel set axle stress. <i>Vehicle System Dynamics</i> , 2015, 53, 1535-1554.	3.7	60
3	Carbody elastic vibrations of high-speed vehicles caused by bogie hunting instability. <i>Vehicle System Dynamics</i> , 2017, 55, 1321-1342.	3.7	49
4	Experimental and numerical study on carbody hunting of electric locomotive induced by low wheel-rail contact conicity. <i>Vehicle System Dynamics</i> , 2021, 59, 203-223.	3.7	44
5	Damage tolerances of a railway axle in the presence of wheel polygonalizations. <i>Engineering Failure Analysis</i> , 2016, 66, 44-59.	4.0	43
6	An investigation of abnormal vibration induced coil spring failure in metro vehicles. <i>Engineering Failure Analysis</i> , 2020, 108, 104238.	4.0	33
7	A long-term tracking test of high-speed train with wheel polygonal wear. <i>Vehicle System Dynamics</i> , 2021, 59, 1735-1758.	3.7	32
8	Experimental and numerical analysis of the polygonal wear of high-speed trains. <i>Wear</i> , 2019, 440-441, 203079.	3.1	29
9	Parameters Study of Hopf Bifurcation in Railway Vehicle System. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015, 10, .	1.2	20
10	A signal analysis based hunting instability detection methodology for high-speed railway vehicles. <i>Vehicle System Dynamics</i> , 2021, 59, 1461-1483.	3.7	20
11	Investigation of the effects of sleeper-passing impacts on the high-speed train. <i>Vehicle System Dynamics</i> , 2015, 53, 1902-1917.	3.7	19
12	Numerical Investigation into the Critical Speed and Frequency of the Hunting Motion in Railway Vehicle System. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-15.	1.1	15
13	An investigation of rocking derailment of railway vehicles under the earthquake excitation. <i>Engineering Failure Analysis</i> , 2020, 117, 104913.	4.0	14
14	Experimental and Numerical Investigation into Formation of Metro Wheel Polygonalization. <i>Shock and Vibration</i> , 2019, 2019, 1-18.	0.6	13
15	An investigation into the influence of wheel-rail contact relationships on the carbody hunting stability of an electric locomotive. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2022, 236, 1198-1209.	2.0	11
16	Mathematical Modelling and Computational Simulation of the Hydraulic Damper during the Orifice-Working Stage for Railway Vehicles. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-23.	1.1	7
17	Wheel polygonisation growth due to multiple wheelsets/track coupling vibration. <i>Vehicle System Dynamics</i> , 2023, 61, 177-199.	3.7	7
18	A novel measuring system for high-speed railway vehicles hunting monitoring able to predict wheelset motion and wheel/rail contact characteristics. <i>Vehicle System Dynamics</i> , 2023, 61, 1621-1643.	3.7	7

#	ARTICLE	IF	CITATIONS
19	An Investigation into the Modeling Methodology of the Coil Spring. Shock and Vibration, 2020, 2020, 1-13.	0.6	6
20	A hybrid neural network model based modelling methodology for the rubber bushing. Vehicle System Dynamics, 2022, 60, 2941-2962.	3.7	4
21	Online estimation of fatigue damage of railway bogie frame based on axle box accelerations. Vehicle System Dynamics, 2023, 61, 286-308.	3.7	4
22	A physical model-neural network coupled modelling methodology of the hydraulic damper for railway vehicles. Vehicle System Dynamics, 2023, 61, 616-637.	3.7	4
23	Modal parameters-based hunting stability analysis of high-speed railway vehicles considering full range of equivalent concity. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 0, , 146441932211032.	0.8	4
24	Vibration characteristics of bogie hunting motion based on root loci curves. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	3.4	3
25	Study of Vertical Characteristics with Changes in Prepressure of Rubber Pad Used by High-Speed EMU. Advances in Materials Science and Engineering, 2020, 2020, 1-13.	1.8	2
26	Motion Control of a 4WS4WD Path-Following Vehicle: Further Studies on Steering and Driving Models. Shock and Vibration, 2021, 2021, 1-25.	0.6	2
27	Numerical Analysis of the Effect of Temperature and External Stochastic Excitations on HTS Bulksâ€™s Levitodynamics. Journal of Superconductivity and Novel Magnetism, 0, , .	1.8	2
28	Calculation of Nonlinear Stiffness of Rubber Pad under Different Temperatures and Prepressures. Shock and Vibration, 2020, 2020, 1-10.	0.6	1
29	Study on Steady-State Responses of High-Speed Vehicle Using Infinite Long Track Model. Shock and Vibration, 2020, 2020, 1-17.	0.6	1
30	Motion Control of a 4WS4WD Path-Following Vehicle: Dynamics-Based Steering and Driving Models. Shock and Vibration, 2021, 2021, 1-13.	0.6	1
31	The Simulation on Thermal-Electromagnetism of High- <i>T_c</i> Superconducting Bulks Under Stochastic Excitations. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-24.	1.7	1
32	Comparative Analysis of the HTS Bulksâ€™ Levitation Characteristics Calculated by the Indirect Coupling Method. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-10.	1.7	1