Maoru Chi

List of Publications by Year
in descending order

32	522	687363 13	677142 22
papers	citations	h-index	g-index

32	32	32	196
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Online estimation of fatigue damage of railway bogie frame based on axle box accelerations. Vehicle System Dynamics, 2023, 61, 286-308.	3.7	4
2	Wheel polygonisation growth due to multiple wheelsets/track coupling vibration. Vehicle System Dynamics, 2023, 61, 177-199.	3.7	7
3	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
4	A novel measuring system for high-speed railway vehicles hunting monitoring able to predict wheelset motion and wheel/rail contact characteristics. Vehicle System Dynamics, 2023, 61, 1621-1643.	3.7	7
5	A hybrid neural network model based modelling methodology for the rubber bushing. Vehicle System Dynamics, 2022, 60, 2941-2962.	3.7	4
6	The Simulation on Thermal-Electromagnetism of High-T_c Superconducting Bulks Under Stochastic Excitations. IEEE Transactions on Applied Superconductivity, 2022, 32, 1-24.	1.7	1
7	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
8	An investigation into the influence of wheelâ€“rail contact relationships on the carbody hunting stability of an electric locomotive. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2022, 236, 1198-1209.	2.0	11
9	Vibration characteristics of bogie hunting motion based on root loci curves. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	3.4	3
10	A signal analysis based hunting instability detection methodology for high-speed railway vehicles. Vehicle System Dynamics, 2021, 59, 1461-1483.	3.7	20
11	A long-term tracking test of high-speed train with wheel polygonal wear. Vehicle System Dynamics, 2021, 59, 1735-1758.	3.7	32
12	Experimental and numerical study on carbody hunting of electric locomotive induced by low wheelâ€“rail contact conicity. Vehicle System Dynamics, 2021, 59, 203-223.	3.7	44
13	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
14	Motion Control of a 4WS4WD Path-Following Vehicle: Dynamics-Based Steering and Driving Models. Shock and Vibration, 2021, 2021, 1-13.	0.6	1
15	Mathematical Modelling and Computational Simulation of the Hydraulic Damper during the Orifice-Working Stage for Railway Vehicles. Mathematical Problems in Engineering, 2020, 2020, 1-23.	1.1	7
16	An investigation of abnormal vibration â€“ induced coil spring failure in metro vehicles. Engineering Failure Analysis, 2020, 108, 104238.	4.0	33
17	An investigation of rocking derailment of railway vehicles under the earthquake excitation. Engineering Failure Analysis, 2020, 117, 104913.	4.0	14
18	Calculation of Nonlinear Stiffness of Rubber Pad under Different Temperatures and Prepressures. Shock and Vibration, 2020, 2020, 1-10.	0.6	1

#	Article	IF	Citations
19	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
20	An Investigation into the Modeling Methodology of the Coil Spring. Shock and Vibration, 2020, 2020, 1-13.	0.6	6
21	Study on Steady-State Responses of High-Speed Vehicle Using Infinite Long Track Model. Shock and Vibration, 2020, 2020, 1-17.	0.6	1
22	Experimental and Numerical Investigation into Formation of Metro Wheel Polygonalization. Shock and Vibration, 2019, 2019, 1-18.	0.6	13
23	Experimental and numerical analysis of the polygonal wear of high-speed trains. Wear, 2019, 440-441, 203079.	3.1	29
24	A study of formation of high order wheel polygonalization. Wear, 2019, 424-425, 1-14.	3.1	63
25	Numerical Investigation into the Critical Speed and Frequency of the Hunting Motion in Railway Vehicle System. Mathematical Problems in Engineering, 2019, 2019, 1-15.	1.1	15
26	Carbody elastic vibrations of high-speed vehicles caused by bogie hunting instability. Vehicle System Dynamics, 2017, 55, 1321-1342.	3.7	49
27	Damage tolerances of a railway axle in the presence of wheel polygonalizations. Engineering Failure Analysis, 2016, 66, 44-59.	4.0	43
28	Parameters Study of Hopf Bifurcation in Railway Vehicle System. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	1.2	20
29	Investigation of the effects of sleeper-passing impacts on the high-speed train. Vehicle System Dynamics, 2015, 53, 1902-1917.	3.7	19
30	Influence of polygonal wear of railway wheels on the wheel set axle stress. Vehicle System Dynamics, 2015, 53, 1535-1554.	3.7	60
31	Numerical Analysis of the Effect of Temperature and External Stochastic Excitations on HTS Bulkâ€™s Levitodynamics. Journal of Superconductivity and Novel Magnetism, 0, , .	1.8	2
32	Modal parameters-based hunting stability analysis of high-speed railway vehicles considering full range of equivalent conicity. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 0, , 146441932211032.	0.8	4