Zhiwei Wang

List of Publications by Year
in descending order

26	1,023	516710 16	501196 28
papers	citations	h-index	g-index

28	28	28	674
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dynamic analysis of enhanced gear transmissions in the vehicle-track coupled dynamic system of a high-speed train. Vehicle System Dynamics, 2022, 60, 2716-2738.	3.7	7
2	Dynamic response analysis of the brake disc of a high-speed train with wheel flats. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2022, 236, 593-605.	2.0	3
3	Nonlinear behaviors of the disc brake system under the effect of wheelâ˜rail adhesion. Tribology International, 2022, 165, 107263.	5.9	23
4	Modelling and Analysis of Power-Regenerating Potential for High-Speed Train Suspensions. Sustainability, 2022, 14, 2542.	3.2	4
5	A novel dynamics model of a trailer bogie brake system and its application in stability analysis. Mechanical Systems and Signal Processing, 2022, 172, 108966.	8.0	13
6	Coupled dynamic behaviours of the brake system considering wheelâ€“rail interactions. International Journal of Rail Transportation, 2022, 10, 749-771.	2.7	9
7	Effect of track irregularities of high-speed railways on the thermal characteristics of the traction motor bearing. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 22-34.	2.0	15
8	Coupled dynamic behaviour of a transmission system with gear eccentricities for a high-speed train. Vehicle System Dynamics, 2021, 59, 613-634.	3.7	21
9	A spatial coupling model to study dynamic performance of pantograph-catenary with vehicle-track excitation. Mechanical Systems and Signal Processing, 2021, 151, 107336.	8.0	147
10	Effect of unbalanced magnetic pull on the thermal characteristics of traction motor bearing. Industrial Lubrication and Tribology, 2021, 73, 1187-1197.	1.3	2
11	Influence of wheel-polygonal wear on the dynamic forces within the axle-box bearing of a high-speed train. Vehicle System Dynamics, 2020, 58, 1385-1406.	3.7	43
12	Torsional vibration analysis of the gear transmission system of high-speed trains with wheel defects. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2020, 234, 123-133.	2.0	36
13	Analysis of vibration and temperature on the axle box bearing of a high-speed train. Vehicle System Dynamics, 2020, 58, 1605-1628.	3.7	21
14	Fault diagnosis of high-speed train suspension systems using multiscale permutation entropy and linear local tangent space alignment. Mechanical Systems and Signal Processing, 2020, 138, 106565.	8.0	58
15	Wheel wear analysis of motor and unpowered car of a high-speed train. Wear, 2020, 444-445, 203136.	3.1	11
16	Dynamic characteristics of a high-speed train gearbox in the vehicleâ€“track coupled system excited by wheel defects. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2020, 234, 1210-1226.	2.0	11
17	Effect of vehicle vibration environment of high-speed train on dynamic performance of axle box bearing. Vehicle System Dynamics, 2019, 57, 543-563.	3.7	66
18	A novel blind deconvolution method and its application to fault identification. Journal of Sound and Vibration, 2019, 460, 114900.	3.9	56

#	Article	IF	Citations
19	Random Response Analysis of Axle-Box Bearing of a High-Speed Train Excited by Crosswinds and Track Irregularities. IEEE Transactions on Vehicular Technology, 2019, 68, 10607-10617.	6.3	57
20	A Hybrid Time-Frequency Analysis Method for Railway Rolling-Element Bearing Fault Diagnosis. Journal of Sensors, 2019, 2019, 1-12.	1.1	5
21	An improved complementary ensemble empirical mode decomposition with adaptive noise and its application to rolling element bearing fault diagnosis. ISA Transactions, 2019, 91, 218-234.	5.7	115
22	Motor carâ€“track spatial coupled dynamics model of a high-speed train with traction transmission systems. Mechanism and Machine Theory, 2019, 137, 386-403.	4.5	53
23	A Novel Condition-Monitoring Method for Axle-Box Bearings of High-Speed Trains Using Temperature Sensor Signals. IEEE Sensors Journal, 2019, 19, 205-213.	4.7	31
24	Particle swarm optimization algorithm to solve the deconvolution problem for rolling element bearing fault diagnosis. ISA Transactions, 2019, 90, 244-267.	5.7	74
25	Effects of polygonal wear of wheels on the dynamic performance of the gearbox housing of a high-speed train. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 1852-1863.	2.0	48
26	Application of an improved minimum entropy deconvolution method for railway rolling element bearing fault diagnosis. Journal of Sound and Vibration, 2018, 425, 53-69.	3.9	92