Zhiwei Wang

List of Publications by Year
in descending order

26 papers	1,023 citations	516710 16 h-index	501196 28 g-index
28 all docs	28 docs citations	28 times ranked	674 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	Particle swarm optimization algorithm to solve the deconvolution problem for rolling element bearing fault diagnosis. ISA Transactions, 2019, 90, 244-267.	5.7	74
5	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
6	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
7	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
8	A novel blind deconvolution method and its application to fault identification. Journal of Sound and Vibration, 2019, 460, 114900.	3.9	56
9	Motor car–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
10	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
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	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
14	Nonlinear behaviors of the disc brake system under the effect of wheel~rail adhesion. Tribology International, 2022, 165, 107263.	5.9	23
15	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
16	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
17	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
18	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

#	Article	IF	Citations
19	Wheel wear analysis of motor and unpowered car of a high-speed train. Wear, 2020, 444-445, 203136.	3.1	11
20	Dynamic characteristics of a high-speed train gearbox in the vehicle–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
21	Coupled dynamic behaviours of the brake system considering wheel–rail interactions. International Journal of Rail Transportation, 2022, 10, 749-771.	2.7	9
22	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
23	A Hybrid Time-Frequency Analysis Method for Railway Rolling-Element Bearing Fault Diagnosis. Journal of Sensors, 2019, 2019, 1-12.	1.1	5
24	Modelling and Analysis of Power-Regenerating Potential for High-Speed Train Suspensions. Sustainability, 2022, 14, 2542.	3.2	4
25	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
26	Effect of unbalanced magnetic pull on the thermal characteristics of traction motor bearing. Industrial Lubrication and Tribology, 2021, 73, 1187-1197.	1.3	2