Wennian Yu

List of Publications by Year
in descending order

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45 papers	1,472 citations	361045 20 h-index	329751 37 g-index
45 all docs	45 docs citations	45 times ranked	838 citing authors

#	Article	IF	Citations
1	An adaptive and generalized Wiener process model with a recursive filtering algorithm for remaining useful life estimation. Reliability Engineering and System Safety, 2022, 217, 108099.	5.1	36
2	Effects of spalling fault on dynamic responses of gear system considering three-dimensional line contact elasto-hydrodynamic lubrication. Engineering Failure Analysis, 2022, 132, 105930.	1.8	9
3	Vibration Transmission Characteristics and Measuring Points Analysis of Bearing Housing System. Shock and Vibration, 2022, 2022, 1-12.	0.3	1
4	A Study on the Modeling Method of Cage Slip and Its Effects on the Vibration Response of Rolling-Element Bearing. Energies, 2022, 15, 2396.	1.6	6
5	Pair-Wise Orthogonal Classifier Based Domain Adaptation Network for Fault Diagnosis in Rotating Machinery. IEEE Sensors Journal, 2022, 22, 12086-12097.	2.4	6
6	Dynamic modeling of the planetary gear set considering the effects of positioning errors on the mesh position and the corner contact. Nonlinear Dynamics, 2022, 109, 1551-1569.	2.7	11
7	Analysis of different RNN autoencoder variants for time series classification and machine prognostics. Mechanical Systems and Signal Processing, 2021, 149, 107322.	4.4	69
8	A new autocorrelation-based strategy for multiple fault feature extraction from gearbox vibration signals. Measurement: Journal of the International Measurement Confederation, 2021, 171, 108738.	2.5	21
9	Adaptive variational mode decomposition and its application to multi-fault detection using mechanical vibration signals. ISA Transactions, 2021, 111, 360-375.	3.1	70
10	Contact characteristic and vibration mechanism of rolling element bearing in the process of fault evolution. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2021, 235, 19-36.	0.5	8
11	A nonlinear dynamic vibration model of cylindrical roller bearing considering skidding. Nonlinear Dynamics, 2021, 103, 2299-2313.	2.7	43
12	Investigation of tooth crack opening state on time varying meshing stiffness and dynamic response of spur gear pair. Engineering Failure Analysis, 2021, 121, 105181.	1.8	46
13	Configuration Design of Dual-Input Compound Power-Split Mechanism for In-Wheel Motor-Driven Electrical Vehicles Based on an Improved Lever Analogy Method. Journal of Mechanical Design, Transactions of the ASME, 2021, 143, .	1.7	3
14	A nonlinear-drift-driven Wiener process model for remaining useful life estimation considering three sources of variability. Reliability Engineering and System Safety, 2021, 212, 107631.	5.1	42
15	A refined analytical model for the mesh stiffness calculation of plastic gear pairs. Applied Mathematical Modelling, 2021, 98, 71-89.	2.2	18
16	Vibration analysis of the axle bearings considering the combined errors for a high-speed train. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2020, 234, 481-497.	0.5	6
17	SRPâ€AKAZE: an improved accelerated KAZE algorithm based on sparse random projection. IET Computer Vision, 2020, 14, 131-137.	1.3	8
18	An improved similarity-based prognostic algorithm for RUL estimation using an RNN autoencoder scheme. Reliability Engineering and System Safety, 2020, 199, 106926.	5.1	151

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19	Identifying optimal features for cutting tool condition monitoring using recurrent neural networks. Advances in Mechanical Engineering, 2020, 12, 168781402098438.	0.8	9
20	A New Model for the Single Mesh Stiffness Calculation of Helical Gears Using the Slicing Principle. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 503-515.	0.8	31
21	Investigation of the dynamic local skidding behaviour of rollers in cylindrical roller bearings. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2019, 233, 899-909.	0.5	2
22	A comparison investigation of the contact models for contact and vibration features of cylindrical roller bearings. Engineering Computations, 2019, 36, 1656-1675.	0.7	1
23	Remaining useful life estimation using a bidirectional recurrent neural network based autoencoder scheme. Mechanical Systems and Signal Processing, 2019, 129, 764-780.	4.4	236
24	A multi-body dynamic study of vibration of a planetary gear train with the planetary bearing fault. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2019, 233, 677-695.	0.5	5
25	Cost Savings Resulting from Optimum Material Selection. Journal of Performance of Constructed Facilities, 2019, 33, 04019019.	1.0	1
26	A statistical feature investigation of the spalling propagation assessment for a ball bearing. Mechanism and Machine Theory, 2019, 131, 336-350.	2.7	120
27	Hybrid data-driven physics-based model fusion framework for tool wear prediction. International Journal of Advanced Manufacturing Technology, 2019, 101, 2861-2872.	1.5	78
28	Train Internal Noise Due to Wheel-Rail Interaction. Journal of Testing and Evaluation, 2019, 47, 2313-2335.	0.4	0
29	Dynamic Interactions Between the Rolling Element and the Cage in Rolling Bearing Under Rotational Speed Fluctuation Conditions. Journal of Tribology, 2019, 141, .	1.0	11
30	Study on the normal contact stiffness of the fractal rough surface in mixed lubrication. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2018, 232, 1604-1617.	1.0	18
31	A new dynamic model of a cylindrical gear pair with localized spalling defects. Nonlinear Dynamics, 2018, 91, 2077-2095.	2.7	37
32	Effects of the gear eccentricities on the dynamic performance of a planetary gear set. Nonlinear Dynamics, 2018, 91, 1-15.	2.7	70
33	Prediction and Analysis of Structural Noise from a U-beam Using the FE-SEA Hybrid Method. Promet - Traffic - Traffico, 2018, 30, 333-342.	0.3	4
34	Cutting Tool Wear Estimation Using a Genetic Algorithm Based Long Short-Term Memory Neural Network. , 2018, , .		4
35	Influence of the addendum modification on spur gear back-side mesh stiffness and dynamics. Journal of Sound and Vibration, 2017, 389, 183-201.	2.1	42
36	The dynamic coupling behaviour of a cylindrical geared rotor system subjected to gear eccentricities. Mechanism and Machine Theory, 2017, 107, 105-122.	2.7	53

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37	Effects of tooth plastic inclination deformation due to spatial cracks on the dynamic features of a gear system. Nonlinear Dynamics, 2017, 87, 2643-2659.	2.7	26
38	A Comparison of Several Methods for the Calculation of Gear Mesh Stiffness. , 2017, , .		1
39	A new fault diagnosis algorithm for helical gears rotating at low speed using an optical encoder. Measurement: Journal of the International Measurement Confederation, 2016, 93, 449-459.	2.5	20
40	A Comparison of Several SDOF Models of Gear Dynamics. , 2016, , .		0
41	Analytical modeling of spur gear corner contact effects. Mechanism and Machine Theory, 2016, 96, 146-164.	2.7	64
42	The dynamic coupling behaviour of a cylindrical gear pair subjected to eccentricities. , 2016, , 569-576.		0
43	The effects of spur gear tooth spatial crack propagation on gear mesh stiffness. Engineering Failure Analysis, 2015, 54, 103-119.	1.8	84
44	Failure Analysis of a High Pressure Descaling Pump Using Envelope Analysis. , 2011, , .		0
45	Study on the chatter vibration of a steel plate mill based on second order cyclic autocorrelation demodulation. International Journal of Design Engineering, 2011, 4, 351.	0.3	1