Wennian Yu

List of Publications by Year
in descending order

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45	1,472	361296	330025
papers	citations	20 h-index	37 g-index

45	45	45	838
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	A statistical feature investigation of the spalling propagation assessment for a ball bearing. Mechanism and Machine Theory, 2019, 131, 336-350.	2.7	120
4	The effects of spur gear tooth spatial crack propagation on gear mesh stiffness. Engineering Failure Analysis, 2015, 54, 103-119.	1.8	84
5	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
6	Effects of the gear eccentricities on the dynamic performance of a planetary gear set. Nonlinear Dynamics, 2018, 91, 1-15.	2.7	70
7	Adaptive variational mode decomposition and its application to multi-fault detection using mechanical vibration signals. ISA Transactions, 2021, 111, 360-375.	3.1	70
8	Analysis of different RNN autoencoder variants for time series classification and machine prognostics. Mechanical Systems and Signal Processing, 2021, 149, 107322.	4.4	69
9	Analytical modeling of spur gear corner contact effects. Mechanism and Machine Theory, 2016, 96, 146-164.	2.7	64
10	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
11	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
12	A nonlinear dynamic vibration model of cylindrical roller bearing considering skidding. Nonlinear Dynamics, 2021, 103, 2299-2313.	2.7	43
13	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
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 new dynamic model of a cylindrical gear pair with localized spalling defects. Nonlinear Dynamics, 2018, 91, 2077-2095.	2.7	37
16	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
17	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
18	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

#	Article	IF	Citations
19	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
20	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
21	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
22	A refined analytical model for the mesh stiffness calculation of plastic gear pairs. Applied Mathematical Modelling, 2021, 98, 71-89.	2.2	18
23	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
24	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
25	Identifying optimal features for cutting tool condition monitoring using recurrent neural networks. Advances in Mechanical Engineering, 2020, 12, 168781402098438.	0.8	9
26	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
27	SRPâ€AKAZE: an improved accelerated KAZE algorithm based on sparse random projection. IET Computer Vision, 2020, 14, 131-137.	1.3	8
28	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
29	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
30	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
31	Pair-Wise Orthogonal Classifier Based Domain Adaptation Network for Fault Diagnosis in Rotating Machinery. IEEE Sensors Journal, 2022, 22, 12086-12097.	2.4	6
32	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
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	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
36	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

#	Article	IF	Citations
37	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
38	A Comparison of Several Methods for the Calculation of Gear Mesh Stiffness. , 2017, , .		1
39	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
40	Cost Savings Resulting from Optimum Material Selection. Journal of Performance of Constructed Facilities, 2019, 33, 04019019.	1.0	1
41	Vibration Transmission Characteristics and Measuring Points Analysis of Bearing Housing System. Shock and Vibration, 2022, 2022, 1-12.	0.3	1
42	Failure Analysis of a High Pressure Descaling Pump Using Envelope Analysis. , 2011, , .		0
43	A Comparison of Several SDOF Models of Gear Dynamics. , 2016, , .		0
44	The dynamic coupling behaviour of a cylindrical gear pair subjected to eccentricities. , 2016, , 569-576.		0
45	Train Internal Noise Due to Wheel-Rail Interaction. Journal of Testing and Evaluation, 2019, 47, 2313-2335.	0.4	0