Wei-dong Cheng

List of Publications by Year
in descending order

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20 papers	506 citations	933447 10 h-index	888059 17 g-index
20 all docs	20 docs citations	20 times ranked	407 citing authors

#	Article	IF	Citations
1	Rolling element bearing fault diagnosis via fault characteristic order (FCO) analysis. Mechanical Systems and Signal Processing, 2014, 45, 139-153.	8.0	162
2	Compound faults detection of rolling element bearing based on the generalized demodulation algorithm under time-varying rotational speed. Journal of Sound and Vibration, 2016, 378, 109-123.	3.9	67
3	Bearing fault diagnosis under unknown variable speed via gear noise cancellation and rotational order sideband identification. Mechanical Systems and Signal Processing, 2015, 62-63, 30-53.	8.0	57
4	Rolling bearing fault diagnosis via STFT and improved instantaneous frequency estimation method. Procedia Manufacturing, 2020, 49, 166-172.	1.9	36
5	Envelope deformation in computed order tracking and error in order analysis. Mechanical Systems and Signal Processing, 2014, 48, 92-102.	8.0	35
6	Generalized demodulation with tunable E-Factor for rolling bearing diagnosis under time-varying rotational speed. Journal of Sound and Vibration, 2018, 430, 59-74.	3.9	27
7	Rolling Bearing Fault Severity Recognition via Data Mining Integrated With Convolutional Neural Network. IEEE Sensors Journal, 2022, 22, 5768-5777.	4.7	27
8	An Online Bearing Fault Diagnosis Technique via Improved Demodulation Spectrum Analysis Under Variable Speed Conditions. IEEE Systems Journal, 2020, 14, 2323-2334.	4.6	22
9	Rolling element bearing instantaneous rotational frequency estimation based on EMD soft-thresholding denoising and instantaneous fault characteristic frequency. Journal of Central South University, 2016, 23, 1682-1689.	3.0	20
10	Generative Adversarial Learning Enhanced Fault Diagnosis for Planetary Gearbox under Varying Working Conditions. Sensors, 2020, 20, 1685.	3.8	12
11	Rolling Bearing Fault Diagnosis via ConceFT-Based Time-Frequency Reconfiguration Order Spectrum Analysis. IEEE Access, 2018, 6, 67131-67143.	4.2	9
12	Study on High-Speed and Smooth Transfer of Robot Motion Trajectory Based on Modified S-Shaped Acceleration/Deceleration Algorithm. IEEE Access, 2020, 8, 199747-199758.	4.2	7
13	Flexible iterative generalized demodulation filtering for the fault diagnosis of rotating machinery under nonstationary conditions. Structural Health Monitoring, 2023, 22, 1421-1436.	7.5	7
14	Planetary Gearbox Fault Diagnosis Using Envelope Manifold Demodulation. Shock and Vibration, 2016, 2016, 1-13.	0.6	4
15	Vibration Source Signal Separation of Rotating Machinery Equipment and Robot Bearings Based on Low Rank Constraint. Applied Sciences (Switzerland), 2021, 11, 5250.	2.5	4
16	Anomaly detection for equipment condition via cross-correlation approximate entropy. , 2011, , .		3
17	Demodulation spectrum analysis for multi-fault diagnosis of rolling bearing via chirplet path pursuit. Journal of Central South University, 2019, 26, 2418-2431.	3.0	3
18	A Similarity Comparison Method of Homologous Fault Response Fragments under Variable Rotational Speed. Shock and Vibration, 2020, 2020, 1-12.	0.6	2

#	Article	IF	Citations
19	Revised computed order tracking method for element rolling bearing diagnosis. , 2016, , .		1
20	The study on life model of MOV based on various parameters and surge history. Soft Computing, 0, , 1.	3.6	1