Ming Liang

List of Publications by Year
in descending order

35 papers	814 citations	759233 12 h-index	713466 21 g-index
36 all docs	36 docs citations	36 times ranked	889 citing authors

#	Article	IF	Citations
1	Spectral kurtosis for fault detection, diagnosis and prognostics of rotating machines: A review with applications. Mechanical Systems and Signal Processing, 2016, 66-67, 679-698.	8.0	362
2	Wavelet‑Based Detection of Beam Cracks Using Modal Shape and Frequency Measurements. Computer-Aided Civil and Infrastructure Engineering, 2012, 27, 439-454.	9.8	105
3	Velocity Synchronous Linear Chirplet Transform. IEEE Transactions on Industrial Electronics, 2019, 66, 6270-6280.	7.9	55
4	Multi-objective design optimization of reconfigurable machine tools: a modified fuzzy-Chebyshev programming approach. International Journal of Production Research, 2008, 46, 1587-1618.	7.5	31
5	Enhancement of the Wear Particle Monitoring Capability of Oil Debris Sensors Using a Maximal Overlap Discrete Wavelet Transform with Optimal Decomposition Depth. Sensors, 2014, 14, 6207-6228.	3.8	31
6	Vibration suppression using two-terminal flywheel. Part I: Modeling and characterization. JVC/Journal of Vibration and Control, 2012, 18, 1096-1105.	2.6	30
7	Vibration suppression using two-terminal flywheel. Part II: application to vehicle passive suspension. JVC/Journal of Vibration and Control, 2012, 18, 1353-1365.	2.6	30
8	Simultaneous Modular Product Scheduling and Manufacturing Cell Reconfiguration Using a Genetic Algorithm. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006, 128, 984-995.	2.2	22
9	SOLVING A COMBINED PART‑SELECTION, MACHINE‑LOADING, AND TOOL‑CONFIGURATION PROBLEM IN FLEXIBLE MANUFACTURING SYSTEMS*. Production and Operations Management, 1993, 2, 97-113.	3.8	21
10	Multiple time-frequency curve extraction Matlab code and its application to automatic bearing fault diagnosis under time-varying speed conditions. MethodsX, 2019, 6, 1415-1432.	1.6	17
11	Vibration signal demodulation and bearing fault detection: A clustering-based segmentation method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 1888-1899.	2.1	12
12	Design, Modeling and Testing of a Two-Terminal Mass Device With a Variable Inertia Flywheel. Journal of Mechanical Design, Transactions of the ASME, 2016, 138, .	2.9	12
13	Gear fault detection under time-varying rotating speed via joint application of multiscale chirplet path pursuit and multiscale morphology analysis. Structural Health Monitoring, 2012, 11, 526-537.	7.5	11
14	A Joint Kurtosis-Based Adaptive Bandstop Filtering and Iterative Autocorrelation Approach to Bearing Fault Detection. Journal of Vibration and Acoustics, Transactions of the ASME, 2013, 135, .	1.6	11
15	An optimal global projection denoising algorithm and its application to shaft orbit purification. Structural Health Monitoring, 2011, 10, 603-616.	7.5	8
16	A velocity synchrosqueezing transform for fault diagnosis of planetary gearboxes under nonstationary conditions. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 2868-2884.	2.1	7
17	A Combined Spectral Subtraction and Wavelet De-Noising Method for Bearing Fault Diagnosis. Proceedings of the American Control Conference, 2007, , .	0.0	5
18	Enhancement of the signals collected by oil debris sensors. , 2008, , .		5

#	Article	IF	Citations
19	A New Low-Frequency Resonance Sensor for Low Speed Roller Bearing Monitoring. Journal of Vibration and Acoustics, Transactions of the ASME, 2010, 132, .	1.6	5
20	De-noising mechanical signals by hybrid thresholding. , 0, , .		4
21	COVARIANCE TRACKING WITH FORGETTING FACTOR AND RANDOM SAMPLING. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2011, 19, 547-558.	1.9	4
22	Bandstop filtering for interference removal in bearing fault detection. , 2012, , .		3
23	Gearbox fault diagnosis via generalized velocity synchronous Fourier transform and order analysis. Transactions of the Canadian Society for Mechanical Engineering, 2019, 43, 153-163.	0.8	3
24	Identification of the high SNR frequency band for bearing fault signature enhancement. , 2007, , .		2
25	Oil debris signal analysis based on empirical mode decomposition for machinery condition monitoring. , 2009, , .		2
26	Mechanical Fault Detection Using Fuzzy Index Fusion. , 2009, , .		2
27	Analytical modeling of oxide thickness variation of metals under high temperature solid-particle erosion. International Journal of Modeling, Simulation, and Scientific Computing, 2014, 05, 1450002.	1.4	2
28	Fault feature extraction of planetary gearboxes under nonstationary conditions based on reassigned wavelet scalogram. , 2015, , .		2
29	Solving the Combined Modular Product Scheduling and Production Cell Reconfiguration Problem: a GA Approach with Parallel Chromosome Coding. , 0, , .		1
30	A Particle Swarm Optimization Approach to A Multi-objective Reconfigurable Machine Tool Design Problem. , 0, , .		1
31	Oscillatory behavior based fault feature extraction for bearing fault diagnosis. , 2015, , .		1
32	Evaluation of Time-Varying Mesh Stiffness of Gears with Tooth Spalls Modeled as Spherical Shapes. , 2018, , .		1
33	Notice of Retraction: Tool condition and machine component monitoring by fuzzy indices. , 2010, , .		0
34	Bearing fault diagnosis of a wind turbine using maximum likelihood detection. , 2011, , .		0
35	Velocity Synchrosqueezing Windowed Fourier Transform for Fault Diagnosis of Fixed-Shaft Gearbox Under Nonstationary Conditions. , 2018, , .		0