

Paolo Pennacchi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

166
papers

2,551
citations

27
h-index

46
g-index

213
ext. papers

3,000
ext. citations

3.3
avg, IF

5.62
L-index

#	Paper	IF	Citations
166	Investigation of PEEK Lined Pads for Tilting-Pad Journal Bearings. <i>Machines</i> , 2022 , 10, 125	2.9	
165	Experimental and theoretical approaches for determining cage motion dynamic characteristics of angular contact ball bearings considering whirling and overall skidding behaviors. <i>Mechanical Systems and Signal Processing</i> , 2022 , 168, 108704	7.8	4
164	Stability and skidding behavior of spacecraft porous oil-containing polyimide cages based on high-speed photography technology. <i>Tribology International</i> , 2022 , 165, 107294	4.9	2
163	Skidding and cage whirling of angular contact ball bearings: Kinematic-hertzian contact-thermal-elasto-hydrodynamic model with thermal expansion and experimental validation. <i>Mechanical Systems and Signal Processing</i> , 2022 , 166, 108427	7.8	3
162	Triboelectric based high-precision self-powering cage skidding sensor and application on main bearing of jet engine. <i>Nano Energy</i> , 2022 , 99, 107387	17.1	4
161	Tribological Characterization of Polyether Ether Ketone (PEEK) Polymers Produced by Additive Manufacturing for Hydrodynamic Bearing Application. <i>Lubricants</i> , 2021 , 9, 112	3.1	1
160	Diagnostics of Roller Bearings Faults During Long-Lasting Tests. <i>Mechanisms and Machine Science</i> , 2021 , 687-698	0.3	
159	Ball bearing skidding and over-skidding in large-scale angular contact ball bearings: Nonlinear dynamic model with thermal effects and experimental results. <i>Mechanical Systems and Signal Processing</i> , 2021 , 147, 107120	7.8	21
158	Rolling element bearing diagnosis based on singular value decomposition and composite squared envelope spectrum. <i>Mechanical Systems and Signal Processing</i> , 2021 , 148, 107174	7.8	37
157	Optimization of continuous sensor placement for modal analysis: Application to an optical backscatter reflectometry strain sensor. <i>Mechanical Systems and Signal Processing</i> , 2021 , 150, 107242	7.8	4
156	Definition of Damage Indices for Railway Axle Bearings: Results of Long-Lasting Tests. <i>Machines</i> , 2021 , 9, 12	2.9	1
155	Fault Detection and Severity Level Identification of Spiral Bevel Gears under Different Operating Conditions Using Artificial Intelligence Techniques. <i>Machines</i> , 2021 , 9, 173	2.9	5
154	Behaviour of an angular contact ball bearing with three-dimensional cubic-like defect: A comprehensive non-linear dynamic model for predicting vibration response. <i>Mechanism and Machine Theory</i> , 2021 , 163, 104376	4	3
153	Intelligent fault diagnosis of rotating machine elements using machine learning through optimal features extraction and selection. <i>Procedia Manufacturing</i> , 2020 , 51, 266-273	1.5	6
152	A new method for the estimation of bearing health state and remaining useful life based on the moving average cross-correlation of power spectral density. <i>Mechanical Systems and Signal Processing</i> , 2020 , 139, 106617	7.8	28
151	Behavior of Five-Pad Tilting Pad Journal Bearings with Different Pivot Stiffness. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 647-657	0.2	
150	Static Characteristics of a Tilting Five-Pad Journal Bearing with an Asymmetric Geometry. <i>Actuators</i> , 2020 , 9, 89	2.4	3

149	A Tacholess Order Tracking Method Based on Inverse Short Time Fourier Transform and Singular Value Decomposition for Bearing Fault Diagnosis. <i>Sensors</i> , 2020 , 20,	3.8	5
148	Dynamic Characteristics of a Non-symmetric Tilting Pad Journal Bearing. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 658-669	0.2	
147	Condition Monitoring of Rolling Element Bearing Based on Moving Average Cross-Correlation of Power Spectral Density. <i>Mechanisms and Machine Science</i> , 2019 , 3411-3418	0.3	
146	Rotordynamic Characterization of a Staggered Labyrinth Seal: Experimental Test Data and Comparison With Predictions. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019 , 141,	1.7	4
145	Effects of Severe Operating Conditions (High Loads/Low Rotational Speeds) on Sleeve Journal Bearings. <i>Mechanisms and Machine Science</i> , 2019 , 491-504	0.3	
144	Numerical Modeling of Spiral Vibrations Caused by the Presence of Brush Seals. <i>Mechanisms and Machine Science</i> , 2019 , 449-470	0.3	2
143	The Effect of the Pivot Stiffness on the Performances of Five-Pad Tilting Pad Bearings. <i>Lubricants</i> , 2019 , 7, 61	3.1	13
142	Special Signal Processing Tools for the Experimental Data of Spiral Vibrations. <i>Mechanisms and Machine Science</i> , 2019 , 305-320	0.3	0
141	Development and Validation of a Bulk-Flow Model for Staggered Labyrinth Seals. <i>Mechanisms and Machine Science</i> , 2019 , 471-490	0.3	
140	Optimized Tribo-Design of Lubricants for Power Loss Reduction in Journal Bearings Used in Process Industry. <i>Mechanisms and Machine Science</i> , 2019 , 437-448	0.3	1
139	Simulation of Tilting-pad Journal Bearing Equipped with Cooled Pads. <i>Mechanisms and Machine Science</i> , 2019 , 3805-3814	0.3	
138	Static and dynamic behaviors of a cylindrical hydrodynamic journal bearing operating at very low Sommerfeld numbers. <i>Mechanisms and Machine Science</i> , 2019 , 3835-3844	0.3	4
137	Intermittent Rub Caused by Carbonized Oil in a Steam Turbine. <i>Mechanisms and Machine Science</i> , 2019 , 290-304	0.3	1
136	Analysis of the periodic breathing of a transverse annular crack propagated in a real rotating machine. <i>Engineering Failure Analysis</i> , 2019 , 99, 126-140	3.2	5
135	Cooled Pads for Tilting-Pad Journal Bearings. <i>Lubricants</i> , 2019 , 7, 92	3.1	3
134	Investigation of Cooled Pads for Tilting-Pad Bearings. <i>Mechanisms and Machine Science</i> , 2019 , 505-519	0.3	2
133	Tribo-design of lubricants for power loss reduction in the oil-film bearings of a process industry machine: Modelling and experimental tests. <i>Tribology International</i> , 2019 , 130, 133-145	4.9	11
132	Diagnostics of Bearings in Rolling Stocks: Results of Long Lasting Tests for a Regional Train Locomotive. <i>Mechanisms and Machine Science</i> , 2019 , 321-335	0.3	5

131	Blade Modal Analysis by Means of Continuous Optical Fiber Sensors. <i>Mechanisms and Machine Science</i> , 2019 , 205-218	0.3	1
130	Effect of energy equation in one control-volume bulk-flow model for the prediction of labyrinth seal dynamic coefficients. <i>Mechanical Systems and Signal Processing</i> , 2018 , 98, 594-612	7.8	21
129	Numerical investigation of the effect of manufacturing errors in pads on the behaviour of tilting-pad journal bearings. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2018 , 232, 480-500	1.4	17
128	On the Thermodynamic Process in the Bulk-Flow Model for the Estimation of the Dynamic Coefficients of Labyrinth Seals. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018 , 140,	1.7	11
127	Thermo-elasto bulk-flow model for labyrinth seals in steam turbines. <i>Tribology International</i> , 2018 , 119, 359-371	4.9	27
126	A Novel Method of Frequency Band Selection for Squared Envelope Analysis for Fault Diagnosing of Rolling Element Bearings in a Locomotive Powertrain. <i>Sensors</i> , 2018 , 18,	3.8	17
125	Rotordynamic Characterization of a Staggered Labyrinth Seal: Experimental Test Data and Comparison With Predictions 2018 ,		1
124	Design and Analysis of CFD Experiments for the Development of Bulk-Flow Model for Staggered Labyrinth Seal. <i>International Journal of Rotating Machinery</i> , 2018 , 2018, 1-16	1.3	5
123	Comparison of the dynamic response of two columns of milling machines made of standard carpentry and metal foam sandwiches. <i>JVC/Journal of Vibration and Control</i> , 2017 , 23, 2782-2794	2	2
122	Experimental evidence of a two-axial groove hydrodynamic journal bearing under severe operation conditions. <i>Tribology International</i> , 2017 , 109, 416-427	4.9	29
121	Introduction of advanced technologies for steam turbine bearings 2017 , 321-380		1
120	Sensitivity Analysis of the One-Control Volume Bulk-Flow Model for a 14 Teeth-on-Stator Straight-Through Labyrinth Seal 2017 ,		3
119	Behaviour of Tilting-Pad Journal Bearings in Case of Large Manufacturing Errors. <i>Mechanisms and Machine Science</i> , 2017 , 221-227	0.3	2
118	Electrical pitting of tilting-pad thrust bearings: Modelling and experimental evidence. <i>Tribology International</i> , 2016 , 103, 475-486	4.9	7
117	Effect of the load direction on non-nominal five-pad tilting-pad journal bearings. <i>Tribology International</i> , 2016 , 98, 197-211	4.9	45
116	Dynamic Characterization of Milling Plant Columns. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2016 , 311-321	0.3	
115	Behavior of TiltingPad Journal Bearings With Large Machining Error on Pads 2016 ,		3
114	Analysis of the Dynamic Behavior of Two High-Pressure Turbines for the Possible Detection of Rub Symptoms 2016 ,		7

113	A data-driven method to enhance vibration signal decomposition for rolling bearing fault analysis. <i>Mechanical Systems and Signal Processing</i> , 2016 , 81, 126-147	7.8	35
112	A cyclostationary multi-domain analysis of fluid instability in Kaplan turbines. <i>Mechanical Systems and Signal Processing</i> , 2015 , 60-61, 375-390	7.8	17
111	Monitoring of the Damage in Rolling Element Bearings. <i>Mechanisms and Machine Science</i> , 2015 , 977-986	0.3	1
110	A Test Rig for Evaluating Tilting-Pad Journal Bearing Characteristics. <i>Mechanisms and Machine Science</i> , 2015 , 921-930	0.3	12
109	Identification Dynamic Force Coefficients of a Five-Pad Tilting-Pad Journal Bearing. <i>Mechanisms and Machine Science</i> , 2015 , 931-941	0.3	10
108	Behavior of a Tilting Pad Journal Bearing With Different Load Directions 2015 ,		6
107	An Experimental Study of Nonlinear Oil-Film Forces in a Tilting-Pad Journal Bearing 2015 ,		6
106	Influence of the Supporting Structure Dynamic Behaviour on the Shaft Vibration of a Real Rotating Machine. <i>Mechanisms and Machine Science</i> , 2015 , 2123-2136	0.3	
105	Design of a Novel Multicylinder Stirling Engine. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2015 , 137,	3	4
104	Tracking the Damage Level in Rolling Element Bearings. <i>Mechanisms and Machine Science</i> , 2015 , 399-407	0.3	3
103	A Novel Procedure for the Selection of the Frequency Band in the Envelope Analysis for Rolling Element Bearing Diagnostics. <i>Mechanisms and Machine Science</i> , 2015 , 421-430	0.3	3
102	Architecture of the Monitoring System for the Traction System Bearings of a Regional Locomotive. <i>Mechanisms and Machine Science</i> , 2015 , 455-464	0.3	3
101	Multiphysics TEHD Model of a Tilting-Pad Thrust Bearing with Polymeric Layer. <i>Mechanisms and Machine Science</i> , 2015 , 955-968	0.3	1
100	Performances Degradation of Tilting-Pad Thrust Bearings Due to Electrical Pitting. <i>Mechanisms and Machine Science</i> , 2015 , 981-994	0.3	2
99	Use of Chaos in the Diagnostics of Rolling Element Bearings. <i>Mechanisms and Machine Science</i> , 2015 , 485-495	0.3	
98	Explanation of the Snubbing Mechanism on Vibration Reduction by Means of Chaos Metrics. <i>Mechanisms and Machine Science</i> , 2015 , 129-141	0.3	
97	Application of a Model-Based Method for Balancing a Large Steam Turbo-Generator Unit. <i>Mechanisms and Machine Science</i> , 2015 , 735-743	0.3	
96	Successful Elimination of a Pad-Fluttering Phenomenon. <i>Mechanisms and Machine Science</i> , 2015 , 1033-1043	0.3	

95	Empirical mode decomposition of pressure signal for health condition monitoring in waterjet cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 72, 347-364	3.2	11
94	Diagnostic of Rolling Element Bearings with Envelope Analysis in Non-Stationary Conditions. <i>Lecture Notes in Mechanical Engineering</i> , 2014 , 127-135	0.4	3
93	The relationship between kurtosis- and envelope-based indexes for the diagnostic of rolling element bearings. <i>Mechanical Systems and Signal Processing</i> , 2014 , 43, 25-43	7.8	135
92	Optimal Frequency Band Selection for the Square Envelope Spectrum in the Diagnostics of Rolling Element Bearings 2014 ,		5
91	Condition Monitoring and Diagnostics of Wind Turbines: A Survey 2014 ,		1
90	The velocity synchronous discrete Fourier transform for order tracking in the field of rotating machinery. <i>Mechanical Systems and Signal Processing</i> , 2014 , 44, 118-133	7.8	69
89	Signal Processing Diagnostic Tool for Rolling Element Bearings Using EMD and MED. <i>Lecture Notes in Mechanical Engineering</i> , 2014 , 379-388	0.4	2
88	Parametric Analysis Focused on Non-linear Forces in Oil-film Journal Bearings. <i>Lecture Notes in Mechanical Engineering</i> , 2014 , 115-125	0.4	
87	Testing second order cyclostationarity in the squared envelope spectrum of non-white vibration signals. <i>Mechanical Systems and Signal Processing</i> , 2013 , 40, 38-55	7.8	54
86	Robust estimation of excitation in mechanical systems under model uncertainties. <i>Journal of Sound and Vibration</i> , 2013 , 332, 264-281	3.9	13
85	A new procedure for using envelope analysis for rolling element bearing diagnostics in variable operating conditions. <i>Mechanical Systems and Signal Processing</i> , 2013 , 38, 23-35	7.8	131
84	Application of cepstrum pre-whitening for the diagnosis of bearing faults under variable speed conditions. <i>Mechanical Systems and Signal Processing</i> , 2013 , 36, 370-384	7.8	133
83	Unbalance Identification in Large Steam Turbo-Generator Unit Using a Model-Based Method 2013 ,		1
82	Diagnostics of Rolling Element Bearings for the Traction System of High Speed Trains: Experimental Evidences 2013 ,		1
81	Modeling of the dynamic response of a Francis turbine. <i>Mechanical Systems and Signal Processing</i> , 2012 , 29, 107-119	7.8	33
80	Nonlinear effects caused by coupling misalignment in rotors equipped with journal bearings. <i>Mechanical Systems and Signal Processing</i> , 2012 , 30, 306-322	7.8	49
79	Order tracking for discrete-random separation in variable speed conditions. <i>Mechanical Systems and Signal Processing</i> , 2012 , 30, 1-22	7.8	51
78	Discussion of the dynamic stability of a multi-degree-of-freedom rotor system affected by a transverse crack. <i>Mechanism and Machine Theory</i> , 2012 , 58, 82-100	4	23

77	Turboalternator shaft voltage measurements 2012 ,		5
76	Hydraulic Instability Onset Detection in Kaplan Turbines by Monitoring Shaft Vibrations 2012 ,		4
75	Fault Symptoms of Rolling Element Bearings Under Variable Operating Conditions: A Multi Domain Analysis 2012 ,		4
74	Dynamic Effects of Electrical Pitting in Steam-Turbine Tilting-Pad Thrust-Bearings 2012 ,		3
73	Detection of Unsteady Flow in a Kaplan Hydraulic Turbine Using Machine Mechanical Model and Rotor Measured Vibrations 2012 ,		2
72	The Combination of Empirical Mode Decomposition and Minimum Entropy Deconvolution for Roller Bearing Diagnostics in Non-Stationary Operation 2012 ,		7
71	Sensor Nodes for the Dynamic Assessment of Alpine Skis. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2012 , 471-479	0.3	
70	Analysis of the Instability Phenomena Caused by Steam in High-Pressure Turbines. <i>Shock and Vibration</i> , 2011 , 18, 593-612	1.1	9
69	Characterization of Five-Pad Tilting-Pad Journal Bearings Using an Original Test-Rig 2011 ,		1
68	Diagnostics of gear faults based on EMD and automatic selection of intrinsic mode functions. <i>Mechanical Systems and Signal Processing</i> , 2011 , 25, 821-838	7.8	151
67	A model to study the reduction of turbine blade vibration using the snubbing mechanism. <i>Mechanical Systems and Signal Processing</i> , 2011 , 25, 1260-1275	7.8	31
66	Multiphysics Modeling of a Tilting Pad Thrust Bearing: Comparison Between White Metal and Polymeric Layered Pads 2011 ,		2
65	Effects of Thermal Transients on Cracked Shaft Vibrations 2011 ,		3
64	Analysis of the Effects of Parallel and Angular Misalignment in Hyperstatic Rotors Equipped With Oil-Film Bearings 2011 ,		1
63	Effectiveness of MED for Fault Diagnosis in Roller Bearings. <i>Springer Proceedings in Physics</i> , 2011 , 637-642	2.2	5
62	Bearing Fault Diagnostics Using the Spectral Pattern Recognition. <i>Springer Proceedings in Physics</i> , 2011 , 643-648	0.2	1
61	Effects of the Hot Alignment of a Power Unit on Oil-Whip Instability Phenomena. <i>International Journal of Rotating Machinery</i> , 2010 , 2010, 1-12	1.3	2
60	Rotor Testing for Crack Detection 2010 , 37-90		3

59	Identification of mechanical faults in rotating machinery for power generation 2010 ,		1
58	Crack Modelling 2010 , 109-198		3
57	Modeling and Model Updating of Torsional Behavior of an Industrial Steam Turbo Generator. <i>Journal of Engineering for Gas Turbines and Power</i> , 2010 , 132,	1.7	8
56	Case History of Pad Fluttering in a Tilting-Pad Journal Bearing 2010 ,		6
55	Application and Comparison of High Breakdown-Point and Bounded-Influence Estimators to Rotor Balancing. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2010 , 132,	1.6	6
54	Cracked Rotors 2010 ,		44
53	A sensitivity analysis of vibrations in cracked turbogenerator units versus crack position and depth. <i>Mechanical Systems and Signal Processing</i> , 2010 , 24, 844-859	7.8	25
52	Rotor balancing using high breakdown-point and bounded-influence estimators. <i>Mechanical Systems and Signal Processing</i> , 2010 , 24, 860-872	7.8	13
51	Typical Dynamic Behaviour of Cracked Shafts 2010 , 17-35		1
50	Cracks in Rotating Shafts 2010 , 1-15		
49	Results Obtained Using Simulations 2010 , 199-246		
48	Laboratory Tests on Cracked Shafts 2010 , 91-107		
47	Crack Diagnosis in Rotating Shafts 2010 , 303-394		
46	Some Special Effects Caused by Cracks 2010 , 247-301		
45	Stability Analysis of a Cracked Rotor With Several Degrees of Freedom 2009 ,		2
44	Nonlinear effects due to electromechanical interaction in generators with smooth poles. <i>Nonlinear Dynamics</i> , 2009 , 57, 607-622	5	14
43	Light and short arc rubs in rotating machines: Experimental tests and modelling. <i>Mechanical Systems and Signal Processing</i> , 2009 , 23, 2205-2227	7.8	41
42	Robust estimation of excitations in mechanical systems using M-estimators Experimental applications. <i>Journal of Sound and Vibration</i> , 2009 , 319, 140-162	3.9	9

41	Robust estimate of excitations in mechanical systems using M-estimators—Theoretical background and numerical applications. <i>Journal of Sound and Vibration</i> , 2008 , 310, 923-946	3.9	34
40	Computational model for calculating the dynamical behaviour of generators caused by unbalanced magnetic pull and experimental validation. <i>Journal of Sound and Vibration</i> , 2008 , 312, 332-353	3.9	26
39	Steam-whirl analysis in a high pressure cylinder of a turbo generator. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 121-132	7.8	24
38	Diagnostics of a crack in a load coupling of a gas turbine using the machine model and the analysis of the shaft vibrations. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 1157-1178	7.8	26
37	Some remarks on breathing mechanism, on non-linear effects and on slant and helicoidal cracks. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 879-904	7.8	56
36	Analysis of Rotor-to-Stator Rub in a Large Steam Turbogenerator. <i>International Journal of Rotating Machinery</i> , 2007 , 2007, 1-8	1.3	13
35	On the Snubbing—Mechanism for Reducing Blade Vibration 2007 ,		1
34	Increasing the robustness of fault identification in rotor dynamics by means of M-estimators. <i>Mechanical Systems and Signal Processing</i> , 2007 , 21, 3003-3029	7.8	19
33	Thermally induced vibrations due to rub in real rotors. <i>Journal of Sound and Vibration</i> , 2007 , 299, 683-713.	3.9	39
32	Comments on Simple explicit formulae for calculating limit dimensions to avoid undercutting in the rotor of a Cycloid rotor pump—By Ye, Zhonghe; Zhang, Wei; Huang, Qinghai; Chen, Chuanming [Mech. Mach. Theory 41 (4) (2006) 405–14]. <i>Mechanism and Machine Theory</i> , 2007 , 42, 1672-1675	4	1
31	Computational Model for Calculating the Dynamical Behaviour of Generators Caused by Unbalanced Magnetic Pull and Experimental Validation 2007 , 1313		
30	Dynamic Investigation on a Pelton Runner: FEM Calculation and Experimental Results 2007 , 1289		
29	The effect of rotor eccentricity on the radial and tangential electromagnetic stresses in synchronous machines. <i>Industrial Electronics Society (IECON), Annual Conference of IEEE</i> , 2006 ,		4
28	Faults Identification and Corrective Actions in Rotating Machinery at Rated Speed. <i>Shock and Vibration</i> , 2006 , 13, 485-503	1.1	3
27	Use of modal representation for the supporting structure in model-based fault identification of large rotating machinery: part 1—Theoretical remarks. <i>Mechanical Systems and Signal Processing</i> , 2006 , 20, 662-681	7.8	76
26	Use of modal representation for the supporting structure in model-based fault identification of large rotating machinery: Part 2—Application to a real machine. <i>Mechanical Systems and Signal Processing</i> , 2006 , 20, 682-701	7.8	32
25	A model-based identification method of transverse cracks in rotating shafts suitable for industrial machines. <i>Mechanical Systems and Signal Processing</i> , 2006 , 20, 2112-2147	7.8	93
24	Bivariate analysis of complex vibration data: An application to condition monitoring of rotating machinery. <i>Mechanical Systems and Signal Processing</i> , 2006 , 20, 2340-2374	7.8	6

23	Comments on Accuracy in the identification of a generator thermal bow. <i>Journal of Sound and Vibration</i> , 2005 , 282, 1321	3.9	
22	Dynamical behaviour of a three-phase generator due to unbalanced magnetic pull. <i>IET Electric Power Applications</i> , 2005 , 152, 1389		25
21	Diagnosis and Model Based Identification of a Coupling Misalignment. <i>Shock and Vibration</i> , 2005 , 12, 293-308	1.1	26
20	Identification of a Generator Fault by Model-Based Diagnostic Techniques. <i>International Journal of Rotating Machinery</i> , 2004 , 10, 293-300	1.3	3
19	Robustness of Command Input Preshaping Technique Applied to Residual Vibration Reduction. <i>Shock and Vibration</i> , 2004 , 11, 377-382	1.1	6
18	Experimental and theoretical application of fault identification measures of accuracy in rotating machine diagnostics. <i>Mechanical Systems and Signal Processing</i> , 2004 , 18, 329-352	7.8	25
17	Accuracy in the identification of a generator thermal bow. <i>Journal of Sound and Vibration</i> , 2004 , 274, 273-295	3.9	20
16	Biomechanical analysis of pedalling for rehabilitation purposes: experimental results on two pathological subjects and comparison with non-pathological findings. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2004 , 7, 339-45	2.1	4
15	Accuracy of Fault Detection in Real Rotating Machinery Using Model Based Diagnostic Techniques. <i>JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing</i> , 2003 , 46, 1026-1034		9
14	Multiple Fault Identification Method in the Frequency Domain for Rotor Systems. <i>Shock and Vibration</i> , 2002 , 9, 203-215	1.1	5
13	IDENTIFICATION OF MULTIPLE FAULTS IN ROTOR SYSTEMS. <i>Journal of Sound and Vibration</i> , 2002 , 254, 327-366	3.9	138
12	Compression Load Dynamics in a Special Helical Blower: A Modeling Improvement. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2001 , 123, 402-407	3	13
11	Diaphragm design improvement for a metering pump. <i>Engineering Failure Analysis</i> , 2001 , 8, 1-13	3.2	2
10	Pre-shaping motion input for a rotating flexible link. <i>International Journal of Solids and Structures</i> , 2001 , 38, 2009-2023	3.1	19
9	Reduction of Quasi-Impulsive Forces and Noise Emission in Three-Screw Pump Rotors. <i>International Journal of Fluid Power</i> , 2001 , 2, 23-31		
8	A Special Type of Crank Mechanism With Variable Stroke. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2001 , 123, 468-472	3	2
7	Non-undercutting conditions in internal gears. <i>Mechanism and Machine Theory</i> , 2000 , 35, 477-490	4	62
6	Identification of Transverse Crack Position and Depth in Rotor Systems. <i>Meccanica</i> , 2000 , 35, 563-582	2.1	45

5	Accuracy of modelling and identification of malfunctions in rotor systems: experimental results. <i>Revista Brasileira De Ciencias Mecanicas/Journal of the Brazilian Society of Mechanical Sciences</i> , 2000 , 22, 423-442		13
4	Rotor Design and Optimization in Internal Lobe Pumps. <i>Applied Mechanics Reviews</i> , 1997 , 50, S133-S141	8.6	10
3	INTERNAL LOBE PUMP DESIGN. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 1997 , 21, 109-121	1.1	8
2	Deviations Induced by Tool Sharpening in the Profile of Three Screw Pump Rotors. <i>Meccanica</i> , 1997 , 32, 567-576	2.1	6
1	Determination of Tool Profile for the Milling of Three-Screw Pump Rotor. <i>Meccanica</i> , 1997 , 32, 363-377	2.1	12