Joerg Wallaschek

List of Publications by Year
in descending order

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212	3,121	201674	197818
papers	citations	27 h-index	49 g-index

220	220	220	1647
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Contact mechanics of piezoelectric ultrasonic motors. Smart Materials and Structures, 1998, 7, 369-381.	3.5	199
2	Travelling wave ultrasonic motors, Part I: Working principle and mathematical modelling of the stator. Journal of Sound and Vibration, 1992, 155, 31-46.	3.9	170
3	Pantograph/Catenary Dynamics and Control. Vehicle System Dynamics, 1997, 28, 159-195.	3.7	161
4	The effect of friction reduction in presence of ultrasonic vibrations and its relevance to travelling wave ultrasonic motors. Ultrasonics, 2002, 40, 379-383.	3.9	159
5	Survey of the present state of the art of piezoelectric linear motors. Ultrasonics, 2000, 38, 37-40.	3.9	135
6	Sliding friction in the presence of ultrasonic oscillations: superposition of longitudinal oscillations. Archive of Applied Mechanics, 2001, 71, 549-554.	2.2	128
7	Piezoelectric Ultrasonic Motors. Journal of Intelligent Material Systems and Structures, 1995, 6, 71-83.	2.5	98
8	A method for nonlinear modal analysis and synthesis: Application to harmonically forced and self-excited mechanical systems. Journal of Sound and Vibration, 2013, 332, 6798-6814.	3.9	81
9	Multiharmonic Forced Response Analysis of a Turbine Blading Coupled by Nonlinear Contact Forces. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	1.1	77
10	The effect of tangential elasticity of the contact layer between stator and rotor in travelling wave ultrasonic motors. International Journal of Non-Linear Mechanics, 2003, 38, 143-159.	2.6	66
11	Friction and wear behaviour of polymer/steel and alumina/alumina under high-frequency fretting conditions. Wear, 1998, 216, 97-105.	3.1	60
12	Dynamics of non-linear automobile shock-absorbers. International Journal of Non-Linear Mechanics, 1990, 25, 299-308.	2.6	59
13	An ultrasonic levitation journal bearing able to control spindle center position. Mechanical Systems and Signal Processing, 2013, 36, 168-181.	8.0	57
14	A standing wave acoustic levitation system for large planar objects. Archive of Applied Mechanics, 2011, 81, 123-139.	2.2	52
15	A system for powder transport based on piezoelectrically excited ultrasonic progressive waves. Materials Chemistry and Physics, 2005, 90, 378-380.	4.0	51
16	Modelling approaches for an ultrasonic percussion drill. Journal of Sound and Vibration, 2007, 308, 405-417.	3.9	48
17	Vibration damping with shunted piezoceramics: Fundamentals and technical applications. Mechanical Systems and Signal Processing, 2013, 36, 36-52.	8.0	44
18	A review on the mechanisms of ultrasonic wedge-wedge bonding. Journal of Materials Processing Technology, 2017, 245, 241-258.	6.3	43

#	Article	IF	Citations
19	Reliability optimization of friction-damped systems using nonlinear modes. Journal of Sound and Vibration, 2014, 333, 2699-2712.	3.9	42
20	A high-order harmonic balance method for systems with distinct states. Journal of Sound and Vibration, 2013, 332, 5476-5488.	3.9	41
21	Ultrasonic deep hole drilling in electrolytic copper ECu 57. CIRP Annals - Manufacturing Technology, 2008, 57, 53-56.	3.6	39
22	Reduced Order Modeling Based on Complex Nonlinear Modal Analysis and Its Application to Bladed Disks With Shroud Contact. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	38
23	Power output estimation and experimental validation for piezoelectric energy harvesting systems. Journal of Electroceramics, 2008, 20, 203-208.	2.0	33
24	Derivation and validation of a mathematical model for traveling wave ultrasonic motors. Smart Materials and Structures, 2002, 11, 565-574.	3.5	32
25	Improved piezoelectric switch shunt damping technique using negative capacitance. Journal of Sound and Vibration, 2013, 332, 7-16.	3.9	31
26	On the computation of the slow dynamics of nonlinear modes of mechanical systems. Mechanical Systems and Signal Processing, 2014, 42, 71-87.	8.0	30
27	Theoretical and experimental studies of a piezoelectric ultrasonic linear motor with respect to damping and nonlinear material behaviour. Ultrasonics, 1998, 36, 103-109.	3.9	28
28	A piezoelectrically driven wire feeding system for high performance wedge-wedge-bonding machines. Mechatronics, 1999, 9, 757-767.	3.3	28
29	Investigation of Friction Mechanisms of Siped Tire Tread Blocks on Snowy and Icy Surfaces. Tire Science and Technology, 2012, 40, 1-24.	0.4	27
30	Travelling Wave Ultrasonic Motors, Part II: A Numerical Method For The Flexural Vibrations Of The Stator. Journal of Sound and Vibration, 1993, 168, 115-122.	3.9	26
31	Piezoelectric transducer design via multiobjective optimization. Ultrasonics, 2006, 44, e747-e752.	3.9	26
32	A rod type linear ultrasonic motor utilizing longitudinal traveling waves: proof of concept. Smart Materials and Structures, 2017, 26, 085013.	3.5	26
33	Resonant vibrating sensors for tactile tissue differentiation. Journal of Sound and Vibration, 2007, 308, 441-446.	3.9	25
34	Capability evaluation of ultrasonic cavitation peening at different standoff distances. Ultrasonics, 2018, 84, 38-44.	3.9	23
35	Analytical and experimental investigation of the frequency ratio and switching law for piezoelectric switching techniques. Smart Materials and Structures, 2008, 17, 035003.	3.5	22
36	Design of particle dampers for additive manufacturing. Additive Manufacturing, 2021, 38, 101752.	3.0	22

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37	<title>Reduction of friction using piezoelectrically excited ultrasonic vibrations</title>. , 2001, 4331, 302.		20
38	A control system for ultrasound devices utilized for inactivating E. coli in wastewater. Ultrasonics Sonochemistry, 2018, 40, 158-162.	8.2	20
39	Tyre tread-block friction: modelling, simulation and experimental validation. Vehicle System Dynamics, 2013, 51, 1017-1026.	3.7	19
40	Effect of different standoff distance and driving current on transducer during ultrasonic cavitation peening. Sensors and Actuators A: Physical, 2017, 261, 274-279.	4.1	19
41	Toward understanding the self-adaptive dynamics of a harmonically forced beam with a sliding mass. Archive of Applied Mechanics, 2017, 87, 699-720.	2.2	19
42	Comparison of different harmonic balance based methodologies for computation of nonlinear modes of non-conservative mechanical systems. Mechanical Systems and Signal Processing, 2019, 127, 159-171.	8.0	19
43	Influence of Geometric Design Parameters Onto Vibratory Response and High-Cycle Fatigue Safety for Turbine Blades With Friction Damper. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	18
44	On Automatic Collision Avoidance Systems. , 2005, , .		17
45	Eddy Current Damper for Turbine Blading: Electromagnetic Finite Element Analysis and Measurement Results. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	17
46	Eddy Current Damping: A Concept Study for Steam Turbine Blading. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	1.1	16
47	On the maximum damping performance of piezoelectric switching techniques. Journal of Intelligent Material Systems and Structures, 2013, 24, 717-728.	2.5	16
48	Self-sensing cavitation detection in ultrasound-induced acoustic cavitation. Ultrasonics, 2019, 94, 401-410.	3.9	16
49	Transient amplitude amplification of mistuned structures: An experimental validation. Journal of Sound and Vibration, 2018, 436, 236-252.	3.9	15
50	Global detection of detached periodic solution branches of friction-damped mechanical systems. Nonlinear Dynamics, 2020, 99, 1841-1870.	5.2	15
51	Air-Coupled Ultrasound Time Reversal (ACU-TR) For Subwavelength Nondestructive Imaging. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 651-663.	3.0	15
52	Ultrasonic-assisted machining of stone. Production Engineering, 2011, 5, 587-594.	2.3	14
53	Influence of the ultrasonic vibration amplitude on the melt pool dynamics and the weld shape of laser beam welded EN AW-6082 utilizing a new excitation system for laser beam welding. Production Engineering, 2021, 15, 151-160.	2.3	14
54	Model-based design of piezoelectric energy harvesting systems. , 2006, 6169, 45.		13

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55	Towards vehicle trajectory planning for collision avoidance based on elastic bands. International Journal of Vehicle Autonomous Systems, 2007, 5, 28.	0.2	13
56	A New Test Rig for Experimental Studies of Drillstring Vibrations. SPE Drilling and Completion, 2015, 30, 119-128.	1.6	13
57	Transient Amplitude Amplification of Mistuned Blisks. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	13
58	On the Interaction of Multiple Traveling Wave Modes in the Flutter Vibrations of Friction-Damped Tuned Bladed Disks. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	13
59	Influence of surface form deviations on friction in mixed lubrication. Tribology International, 2018, 118, 491-499.	5.9	13
60	Hyperchaos co-existing with periodic orbits in a frictional oscillator. Journal of Sound and Vibration, 2020, 472, 115203.	3.9	13
61	Dynamic Acoustic Levitator Based On Subwavelength Aperture Control. Advanced Science, 2021, 8, e2100888.	11.2	13
62	Finite Element Models for the Piezoelectric Actuation in Ultrasonic Traveling Wave Motors. Journal of Intelligent Material Systems and Structures, 1996, 7, 157-161.	2.5	12
63	Tactile tissue characterisation by piezoelectric systems. Journal of Electroceramics, 2008, 20, 237-241.	2.0	12
64	Experimental Study on Performance Enhancement of a Piezoelectric Vibration Energy Harvester by applying Self-Resonating Behavior. Energy Harvesting and Systems, 2017, 4, 131-136.	2.7	12
65	Lifetime observer: an application of mechatronics in vehicle technology. International Journal of Vehicle Design, 2002, 28, 121.	0.3	11
66	The Use of Shape Memory Alloy Wires in Actuators. Solid State Phenomena, 2006, 113, 195-198.	0.3	11
67	A Method to Reduce the Energy Localization in Mistuned Bladed Disks by Application-Specific Blade Pattern Arrangement. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	11
68	On Set-oriented Numerical Methods for Global Analysis of Non-smooth Mechanical Systems. JVC/Journal of Vibration and Control, 2007, 13, 1393-1405.	2.6	10
69	Aerodynamical and Structural Analysis of Operationally Used Turbine Blades. Procedia CIRP, 2017, 59, 77-82.	1.9	10
70	Revealing of ultrasonic wire bonding mechanisms via metal-glass bonding. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 236-237, 189-196.	3.5	10
71	Reduced-Order Modeling of Bladed Disks Considering Small Mistuning of the Disk Sectors. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	10
72	Piezoelectric transformers - state of the art and development trends. , 0, , .		9

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73	Piezoelectric self-sensing system for tactile intraoperative brain tumor delineation in neurosurgery. , 2009, 2009, 737-40.		9
74	Piezoelectric Equivalent Circuit Models. , 2009, , 107-128.		9
75	Robust Design of Friction Interfaces of Bladed Disks With Respect to Parameter Uncertainties. , 2012, , .		9
76	Deep Learning-Based Weld Contour and Defect Detection from Micrographs of Laser Beam Welded Semi-Finished Products. Applied Sciences (Switzerland), 2022, 12, 4645.	2.5	9
77	Fundamental experiments as benchmark problems for modeling ultrasonic micro-impact processes. Journal of Electroceramics, 2008, 20, 209-214.	2.0	8
78	Active and semiactive vibration damping of turbine blades with piezoceramics. , 2009, , .		8
79	Vibration damping with piezoceramics shunted to negative capacitance networks. , 2009, , .		8
80	Parametric studies on the harvested energy of piezoelectric switching techniques. Smart Materials and Structures, 2010, 19, 025001.	3.5	8
81	Multiharmonic Analysis and Design of Shroud Friction Joints of Bladed Disks Subject to Microslip. , 2012, , .		8
82	An Experimental Method for the Phase Controlled Frequency Response Measurement of Nonlinear Vibration Systems. Proceedings in Applied Mathematics and Mechanics, 2012, 12, 253-254.	0.2	8
83	The extended periodic motion concept for fast limit cycle detection of self-excited systems. Computers and Structures, 2020, 227, 106139.	4.4	8
84	On Intelligent Adaptive Vehicle Front-Lighting Assistance Systems. , 2007, , .		7
85	Piezoelectric actuator design for ultrasonically assisted deep hole drilling. Journal of Electroceramics, 2008, 20, 187-192.	2.0	7
86	Development of a biomedical tissue differentiation system using piezoelectric actuators. , 2008, , .		7
87	Influence of ultrasonic amplitude and position in the vibration distribution on the microstructure of a laser beam welded aluminum alloy. Journal of Laser Applications, 2019, 31, 022402.	1.7	7
88	Influence of Ultrasound on Pore and Crack Formation in Laser Beam Welding of Nickel-Base Alloy Round Bars. Metals, 2020, 10, 1299.	2.3	7
89	Measured and Simulated Forced Response of a Rotating Turbine Disk With Asymmetric and Cylindrical Underplatform Dampers. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	7
90	Design and experimental investigations of high power piezoelectric transducers for a novel squeeze film journal bearing. , 2009, , .		6

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91	Reduced Order Modeling Based on Complex Nonlinear Modal Analysis and its Application to Bladed Disks With Shroud Contact. , 2013, , .		6
92	Investigation of the joining zone of laser welded and cross wedge rolled hybrid parts. International Journal of Material Forming, 2018, 11, 829-837.	2.0	6
93	Laser welding of dissimilar low-alloyed steel-steel butt joints and the effects of beam position and ultrasound excitation on the microstructure. Journal of Laser Applications, 2018, 30, 032417.	1.7	6
94	Quantification of the Energy Flows During Ultrasonic Wire Bonding Under Different Process Parameters. International Journal of Precision Engineering and Manufacturing - Green Technology, 2019, 6, 449-463.	4.9	6
95	Analysis of Contacts in Friction Damped Turbine Blades Using Dimensionless Numbers. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	6
96	Driving concepts for bundled ultrasonic linear motors. Journal of Electroceramics, 2008, 20, 153-158.	2.0	5
97	Investigation of Alternate Mistuned Turbine Blades Non-Linear Coupled by Underplatform Dampers. , 2013, , .		5
98	Comparison of Two Widely-Used Frequency-Time Domain Contact Models for the Vibration Simulation of Shrouded Turbine Blades. , 2014, , .		5
99	On the Interaction of Multiple Traveling Wave Modes in the Flutter Vibrations of Friction-Damped Tuned Bladed Disks. , 2016, , .		5
100	Modal interaction in ultrasonic welding block sonotrodes induced by the mistuning of the material properties. Journal of Sound and Vibration, 2016, 381, 1-13.	3.9	5
101	A Taylor Series Expansion Approach for Nonlinear Blade Forced Response Prediction Considering Variable Rotational Speed. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	5
102	Investigation of the composite strength of hybrid steel-steel semi-finished products manufactured by laser beam welding and friction welding. IOP Conference Series: Materials Science and Engineering, 0, 461, 012049.	0.6	5
103	Influence of Geometric Design Parameters Onto Vibratory Response and HCF Safety for Turbine Blades With Friction Damper. , 2018, , .		5
104	A Model Reduction Method for Bladed Disks With Large Geometric Mistuning Using a Partially Reduced Intermediate System Model. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	5
105	Operational Modal Analysis of an Axial Compressor Rotor and Casing System for the Online Identification of a Digital Twin. Applied Mechanics, 2022, 3, 244-258.	1.5	5
106	A test method to investigate the tribological behaviour of friction materials under ultrasonic fretting conditions. TriboTest Journal: Tribology and Lubrication in Practice, 1999, 6, 1-16.	0.7	4
107	State of the art and development trends of ultrasonic linear motors. , 0, , .		4
108	Design method for piezoelectric bending generators in energy harvesting systems. , 2007, , .		4

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109	On Blade Damping Technology Using Passive Piezoelectric Dampers. , 2012, , .		4
110	A Selfâ€Resonant System â€•Experimental Investigations of Boundary and Operating Conditions. Proceedings in Applied Mathematics and Mechanics, 2016, 16, 253-254.	0.2	4
111	Efficient structural analysis of gas turbine blades. Aircraft Engineering and Aerospace Technology, 2018, 90, 1305-1316.	1.2	4
112	Intentional Response Reduction by Harmonic Mistuning of Bladed Disks With Aerodynamic Damping. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	4
113	Approximate Solution of the Fokkerâ€“Planck Equation for a Multidegree of Freedom Frictionally Damped Bladed Disk Under Random Excitation. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	4
114	Rotational Speed-Dependent Contact Formulation for Nonlinear Blade Dynamics Prediction. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	4
115	Contact mechanics and friction processes in ultrasonic wire bonding - Basic theories and experimental investigations. Journal of Sound and Vibration, 2020, 468, 115021.	3.9	4
116	Transient abrasion on a rubber sample due to highly dynamic contact conditions. Wear, 2021, 477, 203848.	3.1	4
117	Influence of process-related heat accumulation of laser beam welded 1.7035 round bars on weld pool shape and weld defects. Journal of Laser Applications, 2021, 33, 042007.	1.7	4
118	Analysis of an experimental setup for structural damping identification. Journal of Theoretical and Applied Mechanics, 0, , 27.	0.5	4
119	High order sensitivity analysis of a mistuned blisk including intentional mistuning. Journal of Theoretical and Applied Mechanics, 0, , 353.	0.5	4
120	Investigation of Snow Milling Mechanics to Optimize Winter Tire Traction. Tire Science and Technology, 2017, 45, 162-174.	0.4	4
121	A novel approach for high power ultrasonic linear motors. , 0, , .		3
122	An experimental modal analysis technique for large-scale structures. Ingenieur-Archiv, 1989, 60, 117-123.	0.6	3
123	<title>Piezoelectrical wire feeding system for micropositioning in bonding machines</title>. , 1999, , .		3
124	Experimental investigations of ultrasonic levitation in a machine tool spindle system. , 2009, , .		3
125	Optimized switching algorithm for synchronized switch damping for multimodal excitation. , 2010, , .		3
126	The Influence of Blade Properties on the Forced Response of Mistuned Bladed Disks. , 2011, , .		3

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127	Transient Resonance Passage With Respect to Friction. , 2012, , .		3
128	Transient amplitude behavior analysis of nonlinear power ultrasonic transducers with application to ultrasonic squeeze film levitation. Journal of Intelligent Material Systems and Structures, 2013, 24, 745-752.	2.5	3
129	Implementation of low-kurtosis pseudo-random excitations to compensate for the effects of nonlinearity on damping estimation by the half-power method. Journal of Sound and Vibration, 2014, 333, 1011-1023.	3.9	3
130	Dynamic Behavior of a Mistuned Air Turbine: Comparison Between Simulations and Measurements. , 2014, , .		3
131	Transient amplification of maximum vibration amplitudes. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 47-48.	0.2	3
132	Model and Method for a Time-Efficient Analysis of Lateral Drillstring Dynamics. , 2015, , .		3
133	A Taylor Series Expansion Approach for Nonlinear Blade Forced Response Prediction Considering Variable Rotational Speed. , 2016, , .		3
134	Nodal Diameter-Dependent Modal Damping Method for Nonlinear Blade Dynamics Prediction Considering Variable Rotational Speed. , 2017, , .		3
135	Numerical and Experimental Study of Shrouded Blade Dynamics Considering Variable Operating Points. , 2018, , .		3
136	Experimental Investigation of the Rapid Fabrication of Micron and Submicron Structures on Polymers Utilizing Ultrasonic Assisted Embossing. Polymers, 2021, 13, 2417.	4.5	3
137	Reduced Order Modeling of Mistuned Bladed Disks considering Aerodynamic Coupling and Mode Family Interaction. , 2017, , .		3
138	Real-Time Observation of Interface Relative Motion during Ultrasonic Wedge-Wedge Bonding Process. International Symposium on Microelectronics, 2015, 2015, 000419-000424.	0.0	3
139	Investigations on the effect of different ultrasonic amplitudes and positions in the vibration distribution on the microstructure of laser beam welded stainless steel. , 2020, , .		3
140	Results of an Industry Survey on the Application of Dependability Oriented Design Methods. , 2007, , 175-184.		3
141	Integral covariance analysis for random vibrations of linear continuous mechanical systems. Dynamical Systems, 1988, 3, 99-107.	0.7	2
142	Precise calculation of piezoelectric switching techniques for vibration damping. , 2009, , .		2
143	Kinematic Model for Ultrasonic-Assisted Manufacturing of Bore Holes with Undefined Cutting Edges. Advanced Materials Research, 2011, 223, 794-803.	0.3	2
144	Investigations on the Amplitude-Dependent Damping Behavior of Superelastic Shape Memory Alloys. , 2012, , .		2

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145	Modeling Aspects of Nonlinear Energy Harvesting for Increased Bandwidth. , 2012, , .		2
146	Dynamics of Bladed Disks With Frictional Coupling and Alternate Mistuning Pattern. , 2014, , .		2
147	Modelling friction characteristics in turbine blade vibrations using a fourier series expansion of a real friction hysteresis. Procedia Engineering, 2017, 199, 669-674.	1.2	2
148	Surface integrity of turned laser-welded hybrid shafts. Production Engineering, 2019, 13, 79-87.	2.3	2
149	A piezoelectrically driven wire feeding system for high performance wedge-wedge-bonding machines. , 1998, , 147-152.		2
150	INTRODUCTION AND EVALUATION OF A DAMPING DETERMINATION METHOD BASED ON THE SHORT-TERM FOURIER TRANSFORM AND RESAMPLING (STFR). Journal of Theoretical and Applied Mechanics, 0, , 395.	0.5	2
151	Prestressing Piezoelectric Actuators Using Superelastic Shape Memory Alloys. Journal of the Korean Physical Society, 2010, 57, 889-891.	0.7	2
152	Zur DÃmpfung winderregter Schwingungen in den BÃ¼ndelleitern elektrischer Freileitungen. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1991, 71, 300-303.	1.6	1
153	The Application of a Lifetime Observer in Vehicle Technology. Key Engineering Materials, 2001, 204-205, 153-162.	0.4	1
154	Theoretical and experimental treatment of standing wave type motors contact behavior. , 2009, , .		1
155	Modelling of shunted piezoceramic actuators with substructure techniques and application to a bladed disk model. , 2009, , .		1
156	Automated measurement system for mechanical characterization of soft tissues and phantoms. , 2010, , .		1
157	A review: The control strategies of synchronized switching damping technique. , 2011, , .		1
158	Optimization of a passive piezoelectric damper for a viscously damped main system. , 2012, , .		1
159	Modeling of a Vibration-Based Piezomagnetoelastic Energy Harvesting System by Using the Duffing Equation. , 2012, , .		1
160	Bandbreitensteigerung von piezoelektrischen Energy Harvesting Systemen durch MagnetkrÃfte. Automatisierungstechnik, 2012, 60, 384-391.	0.8	1
161	Autonomous vehicle front lighting systems. International Journal of Vehicle Autonomous Systems, 2012, 10, 256.	0.2	1
162	A hybrid ultrasonic squeeze film and magnetic levitation actuator for machine guideways. , 2013, , .		1

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163	Influential Parameters on Structural Damping Values of Turbine Blades. , 2014, , .		1
164	A Method to Reduce the Energy Localization in Mistuned Bladed Disks by Application-Specific Blade Pattern Arrangement. , 2015, , .		1
165	Determination of optimal excitation patterns for local mechanical inner ear stimulation using a physiologically-based model. Biomedical Microdevices, 2016, 18, 36.	2.8	1
166	Historical development of IWPMA: 10Âyears of research on piezoelectric materials and actuators. Archive of Applied Mechanics, 2016, 86, 1693-1695.	2.2	1
167	Analysis of the wire/substrate interface during ultrasonic bonding process. , 2017, , .		1
168	Influences on the ultrasonic transmission behavior of wood based materials. , 2017, , .		1
169	Combined Airfoil and Snubber Design Optimization of Turbine Blades With Respect to Friction Damping. Journal of Turbomachinery, 2018, 140, .	1.7	1
170	Improving the mechanical properties of laser beam welded hybrid workpieces by deformation processing. AIP Conference Proceedings, 2019, , .	0.4	1
171	Surface Integrity of Laser Beam Welded Steelâ€“Aluminium Alloy Hybrid Shafts after Turning. Metals, 2019, 9, 134.	2.3	1
172	2B14 Efficient Modeling of the Damping Performance of Piezoelectric Switching Techniques using Harmonic Balance Method. The Proceedings of the Symposium on the Motion and Vibration Control, 2010, 2010, _2B14-1_-_2B14-10_.	0.0	1
173	Piezoelektrische Schwingungsmotoren: Leise, kraftvoll und genau. Automatisierungstechnik, 1995, 43, 582-587.	0.8	0
174	Dynamics and Control of Piezoelectric Ultrasonic Motors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 273-278.	0.4	0
175	A Methodology for Automatically Deriving Simple Electromechanical Equivalent Models from FEM-Models. Solid State Phenomena, 2006, 113, 1-6.	0.3	0
176	Self Configuration of a Novel Miniature Ultrasonic Linear Motor. Solid State Phenomena, 2006, 113, 167-172.	0.3	0
177	Design and modeling of a novel squeeze film journal bearing. , 2009, , .		0
178	Mechanical model of a mistuned 2DOF-structure coupled by viscous damping. Proceedings in Applied Mathematics and Mechanics, 2009, 9, 237-238.	0.2	0
179	Theoretical and Experimental Investigations of Piezoelectrically Excited Travelling Waves in Cylindrical Tubes. Proceedings in Applied Mathematics and Mechanics, 2011, 11, 641-642.	0.2	0
180	Modeling Contact Dynamics of Vanes With Adjustable Upstream Flow Angles. , 2012, , .		0

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181	Alternate Mistuning of Turbine Bladings Coupled by Underplatform Dampers. , 2012, , .		0
182	Optimization of bond transducer vibrations using active and semiactive control. Proceedings of SPIE, 2012, , .	0.8	0
183	Beam model for tyre tread block dynamics. International Journal of Vehicle Noise and Vibration, 2013, 9, 312.	0.1	0
184	An Adaptive Tuned Mass Damper Using Friction Bars. , 2013, , .		0
185	Modeling of a Nonlinear Vibration-Based Energy Harvesting System as a Duffing Oscillator. Solid State Phenomena, 0, 198, 663-668.	0.3	0
186	Energy Dissipation of Synchronized Switch Damping with Piezoceramics Using Negative Capacitance. Solid State Phenomena, 0, 198, 483-488.	0.3	0
187	Frequency veering and mode degeneration of a rectangular disc. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 175-176.	0.2	0
188	Evaluation of a Finite Element Approach for Damping Determination. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 201-202.	0.2	0
189	The Vibrational Behavior of Coupled Bladed Disks with Variable Rotational Speed. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 255-256.	0.2	0
190	Harmonic Mistuning of Blisks. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 641-642.	0.2	0
191	Modeling of ultrasonic processes utilizing a generic software framework. IOP Conference Series: Materials Science and Engineering, 2017, 211, 012014.	0.6	0
192	Influences on the ultrasonic transmission behavior of wood based materials. , 2017, , .		0
193	Numerical analysis of intracochlear mechanical auditory stimulation using piezoelectric bending actuators. Medical and Biological Engineering and Computing, 2018, 56, 733-747.	2.8	0
194	Application of the Transfer Matrix Method for the Analysis of Lateral Vibrations of Drillstrings with Parameter Uncertainties. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 109-117.	0.5	0
195	Parameter Variation on Nonlinear Energy Sink attached to Multiple Degree of Freedom System. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900272.	0.2	0
196	On the use of non-Gaussian models for statistical description of road micro-surface profiles. International Journal of Vehicle Systems Modelling and Testing, 2019, 13, 260.	0.1	0
197	Experimental Nonlinear Vibration Analysis of a Shrouded Bladed Disk Model on a Rotating Test Rig. Conference Proceedings of the Society for Experimental Mechanics, 2020, , 155-163.	0.5	0
198	Equivalent Linearization of Bladed Disk Assemblies With Friction Nonlinearities Under Random Excitation. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	0

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