Jan Awrejcewicz

List of Publications by Year
in descending order

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675	7,008	117453	214527
papers	citations	34	47
		h-index	g-index

779	779	779	2623
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis of Dynamic Systems With Various Friction Laws. Applied Mechanics Reviews, 2005, 58, 389.	4.5	140
2	Improved Continuous Models for Discrete Media. Mathematical Problems in Engineering, 2010, 2010, 1-35.	0.6	102
3	Asymptotic Approaches in Nonlinear Dynamics. Springer Series in Synergetics, 1998, , .	0.2	79
4	Bifurcation and Chaos. Springer Series in Nonlinear Dynamics, 1995, , .	0.2	66
5	Asymptotic approaches in mechanics: New parameters and procedures. Applied Mechanics Reviews, 2003, 56, 87-110.	4.5	64
6	New Trends in Asymptotic Approaches: Summation and Interpolation Methods. Applied Mechanics Reviews, 2001, 54, 69-92.	4.5	61
7	MELNIKOV'S METHOD AND STICKâ€“SLIP CHAOTIC OSCILLATIONS IN VERY WEAKLY FORCED MECHANICAL SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 505-518.	0.7	60
8	NUMERICAL AND EXPERIMENTAL STUDY OF REGULAR AND CHAOTIC MOTION OF TRIPLE PHYSICAL PENDULUM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 2883-2915.	0.7	60
9	Transient friction-induced vibrations in a 2-DOF model of brakes. Journal of Sound and Vibration, 2015, 344, 297-312.	2.1	56
10	Asymptotical Mechanics of Thin-Walled Structures. Foundations in Engineering Mechanics, 2004, , .	0.0	56
11	Chaotic dynamics of size dependent Timoshenko beams with functionally graded properties along their thickness. Mechanical Systems and Signal Processing, 2017, 93, 415-430.	4.4	54
12	STICK-SLIP DYNAMICS OF A TWO-DEGREE-OF-FREEDOM SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 843-861.	0.7	48
13	Routes to chaos in continuous mechanical systems. Part 1: Mathematical models and solution methods. Chaos, Solitons and Fractals, 2012, 45, 687-708.	2.5	48
14	Chaotic dynamics of the size-dependent non-linear micro-beam model. Communications in Nonlinear Science and Numerical Simulation, 2017, 50, 16-28.	1.7	48
15	Routes to chaos in continuous mechanical systems. Part 3: The Lyapunov exponents, hyper, hyper-hyper and spatialâ€“temporal chaos. Chaos, Solitons and Fractals, 2012, 45, 721-736.	2.5	47
16	Nonlinear behaviour of different flexible size-dependent beams models based on the modified couple stress theory. Part 1: Governing equations and static analysis of flexible beams. International Journal of Non-Linear Mechanics, 2017, 93, 96-105.	1.4	47
17	Asymptotic Analysis of Resonances in Nonlinear Vibrations of the 3-dof Pendulum. Differential Equations and Dynamical Systems, 2013, 21, 123-140.	0.5	46
18	Analysis of complex parametric vibrations of plates and shells using Bubnov-Galerkin approach. Archive of Applied Mechanics, 2003, 73, 495-504.	1.2	45

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19	Asymptotic analysis of kinematically excited dynamical systems near resonances. Nonlinear Dynamics, 2012, 68, 459-469.	2.7	43
20	Bifurcations of a Thin Plate-Strip Excited Transversally and Axially. Nonlinear Dynamics, 2003, 32, 187-209.	2.7	42
21	Investigating geometrically nonlinear vibrations of laminated shallow shells with layers of variable thickness via the R-functions theory. Composite Structures, 2015, 125, 575-585.	3.1	41
22	Mathematical model of a three-layer micro- and nano-beams based on the hypotheses of the Grigolyukâ€“Chulkov and the modified couple stress theory. International Journal of Solids and Structures, 2017, 117, 39-50.	1.3	41
23	Stick-slip chaos detection in coupled oscillators with friction. International Journal of Solids and Structures, 2005, 42, 5669-5682.	1.3	40
24	FRICTION PAIR MODELING BY A 2-DOF SYSTEM: NUMERICAL AND EXPERIMENTAL INVESTIGATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 1931-1944.	0.7	40
25	INVESTIGATION OF TRIPLE PENDULUM WITH IMPACTS USING FUNDAMENTAL SOLUTION MATRICES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 4191-4213.	0.7	39
26	Approximate modelling of resulting dry friction forces and rolling resistance for elliptic contact shape. European Journal of Mechanics, A/Solids, 2013, 42, 358-375.	2.1	39
27	A New Approach in the Study of Oscillation Criteria of Even-Order Neutral Differential Equations. Mathematics, 2020, 8, 197.	1.1	39
28	Influence of the Motion of a Spring Pendulum on Energy-Harvesting Devices. Applied Sciences (Switzerland), 2021, 11, 8658.	1.3	39
29	On continuous approximation of discontinuous systems. Nonlinear Analysis: Theory, Methods & Applications, 2005, 62, 1317-1331.	0.6	38
30	Chaotic dynamics of flexible beams with piezoelectric and temperature phenomena. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2058-2061.	0.9	38
31	Bifurcation portrait of the human vocal cord oscillations. Journal of Sound and Vibration, 1990, 136, 151-156.	2.1	37
32	Nonlinear behaviour of different flexible size-dependent beams models based on the modified couple stress theory. Part 2. Chaotic dynamics of flexible beams. International Journal of Non-Linear Mechanics, 2017, 93, 106-121.	1.4	37
33	Quantifying Chaos by Various Computational Methods. Part 1: Simple Systems. Entropy, 2018, 20, 175.	1.1	37
34	Application and experimental validation of new computational models of friction forces and rolling resistance. Acta Mechanica, 2015, 226, 2831-2848.	1.1	36
35	Estimation of Chaotic and Regular (Stickâ€“Slip and Slipâ€“Slip) Oscillations Exhibited by Coupled Oscillators with Dry Friction. Nonlinear Dynamics, 2005, 42, 383-394.	2.7	35
36	Analysis of the Nonlinear Dynamics of the Timoshenko Flexible Beams Using Wavelets. Journal of Computational and Nonlinear Dynamics, 2012, 7, .	0.7	35

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37	PARAMETRIC AND EXTERNAL RESONANCES IN KINEMATICALLY AND EXTERNALLY EXCITED NONLINEAR SPRING PENDULUM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 3013-3021.	0.7	34
38	Thermoelastic vibrations of a Timoshenko microbeam based on the modified couple stress theory. Nonlinear Dynamics, 2020, 99, 919-943.	2.7	34
39	CONTROLLING SYSTEMS WITH IMPACTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1999, 09, 547-553.	0.7	33
40	Feigenbaum Scenario Exhibited by Thin Plate Dynamics. Nonlinear Dynamics, 2001, 24, 373-398.	2.7	33
41	Modelling of hysteresis using Masingâ€“Bouc-Wenâ€™s framework and search of conditions for the chaotic responses. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 939-958.	1.7	33
42	Effects of severe hallux valgus on metatarsal stress and the metatarsophalangeal loading during balanced standing: A finite element analysis. Computers in Biology and Medicine, 2018, 97, 1-7.	3.9	33
43	Chaos in simple mechanical systems with friction. Journal of Sound and Vibration, 1986, 109, 178-180.	2.1	32
44	Experimental and numerical investigation of chaotic regions in the triple physical pendulum. Nonlinear Dynamics, 2007, 50, 755-766.	2.7	32
45	Investigations of chaotic dynamics of multi-layer beams taking into account rotational inertial effects. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 2568-2589.	1.7	32
46	Numerical and experimental study of a double physical pendulum with magnetic interaction. Journal of Sound and Vibration, 2018, 430, 214-230.	2.1	32
47	The vibrational motion of a spring pendulum in a fluid flow. Results in Physics, 2020, 19, 103465.	2.0	32
48	Dark and bright soliton solutions and computational modeling of nonlinear regularized long wave model. Nonlinear Dynamics, 2021, 104, 661-682.	2.7	32
49	Chaos in Structural Mechanics. Understanding Complex Systems, 2008, , .	0.3	32
50	SPATIO-TEMPORAL CHAOS AND SOLITONS EXHIBITED BY VON KÃRMÃN MODEL. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 1465-1513.	0.7	31
51	Chaos prediction in the duffing-type system with friction using Melnikov's function. Nonlinear Analysis: Real World Applications, 2006, 7, 12-24.	0.9	30
52	Routes to chaos in continuous mechanical systems: Part 2. Modelling transitions from regular to chaotic dynamics. Chaos, Solitons and Fractals, 2012, 45, 709-720.	2.5	30
53	Coupled oscillators in identification of nonlinear damping of a real parametric pendulum. Mechanical Systems and Signal Processing, 2018, 98, 91-107.	4.4	30
54	Numerical analysis of a second-grade fuzzy hybrid nanofluid flow and heat transfer over a permeable stretching/shrinking sheet. Scientific Reports, 2022, 12, 1631.	1.6	30

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55	Dynamics Investigation of Three Coupled Rods with a Horizontal Barrier. Meccanica, 2003, 38, 687-698.	1.2	29
56	Stability analysis and Lyapunov exponents of a multi-body mechanical system with rigid unilateral constraints. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, e909-e918.	0.6	29
57	Size-dependent parameter cancels chaotic vibrations of flexible shallow nano-shells. Journal of Sound and Vibration, 2019, 446, 374-386.	2.1	29
58	Construction of Periodic Solutions to Partial Differential Equations with Non-Linear Boundary Conditions.. International Journal of Nonlinear Sciences and Numerical Simulation, 2000, 1, .	0.4	28
59	Numerical evaluation of bone remodelling and adaptation considering different hip prosthesis designs. Clinical Biomechanics, 2017, 50, 122-129.	0.5	28
60	Thermoelastic contact of a rotating shaft with a rigid bush in conditions of bush wear and stick-slip movements. International Journal of Engineering Science, 2002, 40, 1113-1130.	2.7	26
61	Nonlinear deformations of spherical panels subjected to transversal load action. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 3108-3126.	3.4	26
62	Continuous models for 2D discrete media valid for higher-frequency domain. Computers and Structures, 2008, 86, 140-144.	2.4	26
63	Application of HÃ©non method in numerical estimation of the stickâ€“slip transitions existing in Filippov-type discontinuous dynamical systems with dry friction. Nonlinear Dynamics, 2013, 73, 723-736.	2.7	26
64	Numerical Simulations of Physical and Engineering Processes. , 2011, , .		26
65	Dynamical analysis of coronavirus disease with crowding effect, and vaccination: a study of third strain. Nonlinear Dynamics, 2022, 107, 3963-3982.	2.7	26
66	Hamiltonian energy computation and complex behavior of a small heterogeneous network of three neurons: circuit implementation. Nonlinear Dynamics, 2022, 107, 2867-2886.	2.7	26
67	A direct numerical method for quantifying regular and chaotic orbits. Chaos, Solitons and Fractals, 2004, 19, 503-507.	2.5	25
68	Chaotic dynamics of flexible Euler-Bernoulli beams. Chaos, 2013, 23, 043130.	1.0	25
69	Prototype, control system architecture and controlling of the hexapod legs with nonlinear stick-slip vibrations. Mechatronics, 2016, 37, 63-78.	2.0	25
70	Linear and nonlinear free vibration analysis of laminated functionally graded shallow shells with complex plan form and different boundary conditions. International Journal of Non-Linear Mechanics, 2018, 107, 161-169.	1.4	25
71	On the solution of a coupled thermo-mechanical problem for non-homogeneous Timoshenko-type shells. Journal of Mathematical Analysis and Applications, 2002, 273, 409-416.	0.5	24
72	Nonlinear coupled problems in dynamics of shells. International Journal of Engineering Science, 2003, 41, 587-607.	2.7	24

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73	THE PISTON â€" CONNECTING ROD â€" CRANKSHAFT SYSTEM AS A TRIPLE PHYSICAL PENDULUM WITH IMPACTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2207-2226.	0.7	24
74	Methods of Small and Large Î´ in the Nonlinear Dynamics â€" A Comparative Analysis. Nonlinear Dynamics, 2000, 23, 57-66.	2.7	23
75	Asymptotical behaviour of a system with damping and high power-form non-linearity. Journal of Sound and Vibration, 2003, 267, 1169-1174.	2.1	23
76	An artificial small perturbation parameter and nonlinear plate vibrations. Journal of Sound and Vibration, 2005, 283, 561-571.	2.1	23
77	Kinematics, Dynamics and Power Consumption Analysis of the Hexapod Robot During Walking with Tripod Gait. International Journal of Structural Stability and Dynamics, 2017, 17, 1740010.	1.5	23
78	Topological optimization of thermoelastic composites with maximized stiffness and heat transfer. Composites Part B: Engineering, 2019, 158, 319-327.	5.9	23
79	Theoretical and numerical analysis of regular one-side oscillations in a single pendulum system driven by a magnetic field. Mechanical Systems and Signal Processing, 2021, 150, 107229.	4.4	23
80	Exact solutions for thermomagetized unsteady non-singularized jeffrey fluid: Effects of ramped velocity, concentration with newtonian heating. Results in Physics, 2021, 26, 104367.	2.0	23
81	Second-order Emdenâ€"Fowler neutral differential equations: A new precise criterion for oscillation. Applied Mathematics Letters, 2021, 118, 107172.	1.5	23
82	Thermophysical Investigation of Oldroyd-B Fluid with Functional Effects of Permeability: Memory Effect Study Using Non-Singular Kernel Derivative Approach. Fractal and Fractional, 2021, 5, 124.	1.6	23
83	Mathematical modeling of MEMS elements subjected to external forces, temperature and noise, taking account of coupling of temperature and deformation fields as well as a nonhomogenous material structure. Communications in Nonlinear Science and Numerical Simulation, 2019, 72, 39-58.	1.7	22
84	Nonlinear Dynamics and Motion Bifurcations of the Rotor Active Magnetic Bearings System with a New Control Scheme and Rub-Impact Force. Symmetry, 2021, 13, 1502.	1.1	22
85	Nonlinear vibration and characteristics of flexible plate-strips with non-symmetric boundary conditions. Communications in Nonlinear Science and Numerical Simulation, 2006, 11, 95-124.	1.7	21
86	Analysis of regular and chaotic dynamics of the Euler-Bernoulli beams using finite difference and finite element methods. Acta Mechanica Sinica/Lixue Xuebao, 2011, 27, 36-43.	1.5	21
87	Wavelet-Based Analysis of the Regular and Chaotic Dynamics of Rectangular Flexible Plates Subjected to Shear-Harmonic Loading. Shock and Vibration, 2012, 19, 979-994.	0.3	21
88	An experiment with swinging up a double pendulum using feedback control. Journal of Computer and Systems Sciences International, 2012, 51, 176-182.	0.2	21
89	Dynamical instability of laminated plates with external cutout. International Journal of Non-Linear Mechanics, 2016, 81, 103-114.	1.4	21
90	Fingers Movements Control System Based on Artificial Neural Network Model. Radioelectronics and Communications Systems, 2019, 62, 23-33.	0.3	21

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91	Hydromagnetic flow over a moving plate of second grade fluids with time fractional derivatives having non-singular kernel. Chaos, Solitons and Fractals, 2020, 130, 109454.	2.5	21
92	Symmetric and Non-Oscillatory Characteristics of the Neutral Differential Equations Solutions Related to p-Laplacian Operators. Symmetry, 2022, 14, 566.	1.1	21
93	Complex Parametric Vibrations of Flexible Rectangular Plates. Meccanica, 2004, 39, 221-244.	1.2	20
94	Continuous models for 1D discrete media valid for higher-frequency domain. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 345, 55-62.	0.9	20
95	MODELING AND ANALYSIS OF THERMAL PROCESSES IN MECHANICAL FRICTION CLUTCH â€" NUMERICAL AND EXPERIMENTAL INVESTIGATIONS. International Journal of Structural Stability and Dynamics, 2013, 13, 1340004.	1.5	20
96	On the contact interaction between two rectangular plates. Nonlinear Dynamics, 2016, 85, 2729-2748.	2.7	20
97	Stability of the Size-Dependent and Functionally Graded Curvilinear Timoshenko Beams. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	20
98	Finite Element Analysis of Impact for Helmeted and Non-helmeted Head. Journal of Medical and Biological Engineering, 2018, 38, 587-595.	1.0	20
99	Nonlinear dynamics of the six-pole rotor-AMB system under two different control configurations. Nonlinear Dynamics, 2020, 101, 2299-2323.	2.7	20
100	Analysis of Non-Linear Vibrations of Single-Layered Euler-Bernoulli Beams using Wavelets. International Journal of Aerospace and Lightweight Structures (IJALS), 2011, 01, 203.	0.1	20
101	Stochastic Analysis of Nonlinear Cancer Disease Model through Virotherapy and Computational Methods. Mathematics, 2022, 10, 368.	1.1	20
102	How to predict stick-slip chaos in. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 330, 371-376.	0.9	19
103	2-dof non-linear dynamics of a rotor suspended in the magneto-hydrodynamic field in the case of soft and rigid magnetic materials. International Journal of Non-Linear Mechanics, 2010, 45, 919-930.	1.4	19
104	Low-Speed Voltage-Input Tracking Control of a DC-Motor Numerically Modelled by a Dynamical System with Stick-Slip Friction. Differential Equations and Dynamical Systems, 2013, 21, 3-13.	0.5	19
105	Chaotic dynamics of flexible beams driven by external white noise. Mechanical Systems and Signal Processing, 2016, 79, 225-253.	4.4	19
106	Influence of the fixation region of a pressâ€"fit hip endoprosthesis on the stressâ€"strain state of the â€œboneâ€"implantâ€•system. Computers in Biology and Medicine, 2017, 84, 195-204.	3.9	19
107	Power Law Kernel Analysis of MHD Maxwell Fluid with Ramped Boundary Conditions: Transport Phenomena Solutions Based on Special Functions. Fractal and Fractional, 2021, 5, 248.	1.6	19
108	Coexistence of infinitely many patterns and their control in heterogeneous coupled neurons through a multistable memristive synapse. Chaos, 2022, 32, .	1.0	19

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109	Bifurcations and chaos of a particular van der Pol-Duffing oscillator. Journal of Sound and Vibration, 1989, 132, 89-100.	2.1	18
110	On the non-classical mathematical models of coupled problems of thermo-elasticity for multi-layer shallow shells with initial imperfections. International Journal of Non-Linear Mechanics, 2015, 74, 51-72.	1.4	18
111	Contact interaction of two rectangular plates made from different materials with an account of physical nonlinearity. Nonlinear Dynamics, 2018, 91, 1191-1211.	2.7	18
112	Complex dynamics from heterogeneous coupling and electromagnetic effect on two neurons: Application in images encryption. Chaos, Solitons and Fractals, 2021, 153, 111577.	2.5	18
113	Phase portrait, multi-stability, sensitivity and chaotic analysis of Gardnerâ€™s equation with their wave turbulence and solitons solutions. Results in Physics, 2022, 32, 104981.	2.0	18
114	Nonlinear Stability and Linear Instability of Double-Diffusive Convection in a Rotating with LTNE Effects and Symmetric Properties: Brinkmann-Forchheimer Model. Symmetry, 2022, 14, 565.	1.1	18
115	A Study of Continuous Dependence and Symmetric Properties of Double Diffusive Convection: Forchheimer Model. Symmetry, 2022, 14, 682.	1.1	18
116	Asymptotic Approaches to Strongly Non-linear Dynamical Systems. Systems Analysis Modelling Simulation, 2003, 43, 255-268.	0.1	17
117	Modeling, numerical analysis and application of triple physical pendulum with rigid limiters of motion. Archive of Applied Mechanics, 2005, 74, 746-753.	1.2	17
118	Homogenization of Quasi-Periodic Structures. Journal of Vibration and Acoustics, Transactions of the ASME, 2006, 128, 532-534.	1.0	17
119	Investigation of the stressâ€strain state of the laminated shallow shells by Râ€functions method combined with splineâ€approximation. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2011, 91, 458-467.	0.9	17
120	Ordinary Differential Equations and Mechanical Systems. , 2014, , .		17
121	Decomposition of governing equations in the analysis of resonant response of a nonlinear and non-ideal vibrating system. Nonlinear Dynamics, 2015, 82, 299-309.	2.7	17
122	Properties of impact events in the model of forced impacting oscillator: Experimental and numerical investigations. International Journal of Non-Linear Mechanics, 2019, 113, 55-61.	1.4	17
123	A meshfree approach for analysis and computational modeling of non-linear SchrÃ¶dinger equation. Computational and Applied Mathematics, 2020, 39, 1.	1.0	17
124	On the average continuous representation of an elastic discrete medium. Journal of Sound and Vibration, 2003, 264, 1187-1194.	2.1	16
125	Buckling analysis of discretely stringer-stiffened cylindrical shells. International Journal of Mechanical Sciences, 2006, 48, 1505-1515.	3.6	16
126	TANGENS HYPERBOLICUS APPROXIMATIONS OF THE SPATIAL MODEL OF FRICTION COUPLED WITH ROLLING RESISTANCE. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2905-2917.	0.7	16

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127	Wear Processes in a Mechanical Friction Clutch: Theoretical, Numerical, and Experimental Studies. Mathematical Problems in Engineering, 2015, 2015, 1-28.	0.6	16
128	Mathematical modelling, numerical simulations and experimental verification of bifurcation dynamics of a pendulum driven by a dc motor. European Journal of Physics, 2015, 36, 055028.	0.3	16
129	Nonlinear dynamics and contact interactions of the structures composed of beam-beam and beam-closed cylindrical shell members. Chaos, Solitons and Fractals, 2016, 91, 622-638.	2.5	16
130	Stationary and Transient Resonant Response of a Spring Pendulum. Procedia IUTAM, 2016, 19, 201-208.	1.2	16
131	Mathematical modelling of physically/geometrically non-linear micro-shells with account of coupling of temperature and deformation fields. Chaos, Solitons and Fractals, 2017, 104, 635-654.	2.5	16
132	On the active damping of vibrations using electromagnetic spring. Mechanics Based Design of Structures and Machines, 2021, 49, 1131-1144.	3.4	16
133	Nonlinear oscillations of coupled pendulums subjected to an external magnetic stimulus. Mechanical Systems and Signal Processing, 2021, 154, 107560.	4.4	16
134	Breakdown of a Nonlinear Stochastic Nipah Virus Epidemic Models through Efficient Numerical Methods. Entropy, 2021, 23, 1588.	1.1	16
135	Control Performance, Stability Conditions, and Bifurcation Analysis of the Twelve-Pole Active Magnetic Bearings System. Applied Sciences (Switzerland), 2021, 11, 10839.	1.3	16
136	Numerical Study of Natural Convection of Power Law Fluid in a Square Cavity Fitted with a Uniformly Heated T-Fin. Mathematics, 2022, 10, 342.	1.1	16
137	Double Diffusive Magneto-Free-Convection Flow of Oldroyd-B Fluid over a Vertical Plate with Heat and Mass Flux. Symmetry, 2022, 14, 209.	1.1	16
138	Numerical analysis of the oscillations of human vocal cords. Nonlinear Dynamics, 1991, 2, 35-52.	2.7	15
139	FREE VIBRATIONS OF DOUBLY CURVED IN-PLANE NON-HOMOGENEOUS SHELLS. Journal of Sound and Vibration, 1999, 225, 701-722.	2.1	15
140	Continuous models for chain of inertially linked masses. European Journal of Mechanics, A/Solids, 2005, 24, 532-536.	2.1	15
141	Analytical prediction of chaos in rotated Froude pendulum. Nonlinear Dynamics, 2006, 47, 3-24.	2.7	15
142	Stability, bifurcation and chaos of closed flexible cylindrical shells. International Journal of Mechanical Sciences, 2008, 50, 247-274.	3.6	15
143	CHAOS CAUSED BY HYSTERESIS AND SATURATION PHENOMENON IN 2-DOF VIBRATIONS OF THE ROTOR SUPPORTED BY THE MAGNETO-HYDRODYNAMIC BEARING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2801-2823.	0.7	15
144	Noisy contact interactions of multi-layer mechanical structures coupled by boundary conditions. Journal of Sound and Vibration, 2016, 369, 77-86.	2.1	15

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145	Mathematical models and nonlinear dynamics of a linear electromagnetic motor. Nonlinear Dynamics, 2018, 94, 377-396.	2.7	15
146	Non-linear dynamics of size-dependent Eulerâ€“Bernoulli beams with topologically optimized microstructure and subjected to temperature field. International Journal of Non-Linear Mechanics, 2018, 104, 75-86.	1.4	15
147	Modelling and experimental validation of 1-degree-of-freedom impacting oscillator. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2019, 233, 418-430.	0.7	15
148	Review of the Methods of Transition from Partial to Ordinary Differential Equations: From Macro- to Nano-structural Dynamics. Archives of Computational Methods in Engineering, 2021, 28, 4781-4813.	6.0	15
149	Mittag-Leffler form solutions of natural convection flow of second grade fluid with exponentially variable temperature and mass diffusion using Prabhakar fractional derivative. Case Studies in Thermal Engineering, 2022, 34, 102018.	2.8	15
150	Numerical investigations of the constant and periodic motions of the human vocal cords including stability and bifurcation phenomena. Dynamical Systems, 1990, 5, 11-28.	0.7	14
151	Chaotic Zones in Triple Pendulum Dynamics Observed Experimentally and Numerically. Applied Mechanics and Materials, 0, 9, 1-17.	0.2	14
152	MODELING AND ANALYTICAL/NUMERICAL ANALYSIS OF WEAR PROCESSES IN A MECHANICAL FRICTION CLUTCH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2861-2869.	0.7	14
153	Bifurcational Dynamics of a Two-Dimensional Stick-Slip System. Differential Equations and Dynamical Systems, 2012, 20, 301-322.	0.5	14
154	Quantifying non-linear dynamics of mass-springs in series oscillators via asymptotic approach. Mechanical Systems and Signal Processing, 2017, 89, 149-158.	4.4	14
155	Cartilage Stiffness Effect on Foot Biomechanics of Chinese Bound Foot: A Finite Element Analysis. Frontiers in Physiology, 2018, 9, 1434.	1.3	14
156	Complexity of resonances exhibited by a nonlinear micromechanical gyroscope: an analytical study. Nonlinear Dynamics, 2019, 97, 1819-1836.	2.7	14
157	Establishing New Criteria for Oscillation of Odd-Order Nonlinear Differential Equations. Mathematics, 2020, 8, 937.	1.1	14
158	Chaotic motion in a nonlinear oscillator with friction. Journal of Mechanical Science and Technology, 1988, 2, 104-109.	0.1	13
159	A route to chaos in a nonlinear oscillator with delay. Acta Mechanica, 1989, 77, 111-120.	1.1	13
160	Three Routes to Chaos in Simple Sinusoidally Driven Oscillators. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 1991, 71, 71-79.	0.9	13
161	Stick-Slip Chaotic Oscillations in a Quasi-Autonomous Mechanical System. International Journal of Nonlinear Sciences and Numerical Simulation, 2003, 4, .	0.4	13
162	Chaotic vibrations of spherical and conical axially symmetric shells. Archive of Applied Mechanics, 2005, 74, 338-358.	1.2	13

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163	QUANTIFYING SMOOTH AND NONSMOOTH REGULAR AND CHAOTIC DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2041-2055.	0.7	13
164	CHAOTIC VIBRATIONS OF CLOSED CYLINDRICAL SHELLS IN A TEMPERATURE FIELD. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2008, 18, 1515-1529.	0.7	13
165	ON THE WAVELET TRANSFORM APPLICATION TO A STUDY OF CHAOTIC VIBRATIONS OF THE INFINITE LENGTH FLEXIBLE PANELS DRIVEN LONGITUDINALLY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 3347-3371.	0.7	13
166	Sensitivity analysis in design of constructions made of functionally graded materials. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 19-28.	1.1	13
167	Large amplitude free vibration of orthotropic shallow shells of complex shapes with variable thickness. Latin American Journal of Solids and Structures, 2013, 10, 149-162.	0.6	13
168	On the general theory of chaotic dynamics of flexible curvilinear Eulerâ€“Bernoulli beams. Nonlinear Dynamics, 2015, 79, 11-29.	2.7	13
169	Spatial double physical pendulum with axial excitation: computer simulation and experimental set-up. International Journal of Dynamics and Control, 2015, 3, 1-8.	1.5	13
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