Jan Awrejcewicz

List of Publications by Citations

639 papers	4,841 citations	31 h-index	42 g-index
777 ext. papers	5,918 ext. citations	2.4 avg, IF	6.45 L-index

#	Paper	IF	Citations
639	Analysis of Dynamic Systems With Various Friction Laws. *Applied Mechanics Reviews*, **2005**, 58, 389	8.6	105
638	Improved Continuous Models for Discrete Media. *Mathematical Problems in Engineering*, **2010**, 2010, 1-35	1.1	82
637	Bifurcation and Chaos in Nonsmooth Mechanical Systems. *World Scientific Series on Nonlinear Science, Series A*, **2003**,	3.3	62
636	Asymptotic Approaches in Nonlinear Dynamics. *Springer Series in Synergetics*, **1998**,	0.4	54
635	New Trends in Asymptotic Approaches: Summation and Interpolation Methods. *Applied Mechanics Reviews*, **2001**, 54, 69-92	8.6	53
634	MELNIKOV'S METHOD AND STICKSLIP CHAOTIC OSCILLATIONS IN VERY WEAKLY FORCED MECHANICAL SYSTEMS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **1999**, 09, 505-518	2	49
633	Chaotic dynamics of size dependent Timoshenko beams with functionally graded properties along their thickness. *Mechanical Systems and Signal Processing*, **2017**, 93, 415-430	7.8	48
632	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	2	48
631	Nonclassical Thermoelastic Problems in Nonlinear Dynamics of Shells. *Scientific Computation*, **2003**,	0.1	48
630	Smooth and Nonsmooth High Dimensional Chaos and the Melnikov-Type Methods. *World Scientific Series on Nonlinear Science, Series A*, **2007**,	3.3	47
629	Routes to chaos in continuous mechanical systems. Part 1: Mathematical models and solution methods. *Chaos, Solitons and Fractals*, **2012**, 45, 687-708	9.3	46
628	Routes to chaos in continuous mechanical systems. Part 3: The Lyapunov exponents, hyper, hyper-hyper and spatialtemporal chaos. *Chaos, Solitons and Fractals*, **2012**, 45, 721-736	9.3	43
627	Asymptotic approaches in mechanics: New parameters and procedures. *Applied Mechanics Reviews*, **2003**, 56, 87-110	8.6	43
626	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	2	41
625	Transient friction-induced vibrations in a 2-DOF model of brakes. *Journal of Sound and Vibration*, **2015**, 344, 297-312	3.9	39
624	Bifurcations of a Thin Plate-Strip Excited Transversally and Axially. *Nonlinear Dynamics*, **2003**, 32, 187-209	3	39
623	Asymptotical Mechanics of Thin-Walled Structures. *Foundations in Engineering Mechanics*, **2004**,	0	39

622	Chaotic dynamics of the size-dependent non-linear micro-beam model. *Communications in Nonlinear Science and Numerical Simulation*, **2017**, 50, 16-28	3.7	38
621	Approximate modelling of resulting dry friction forces and rolling resistance for elliptic contact shape. *European Journal of Mechanics, A/Solids*, **2013**, 42, 358-375	3.7	37
620	Analysis of complex parametric vibrations of plates and shells using Bubnov-Galerkin approach. *Archive of Applied Mechanics*, **2003**, 73, 495-504	2.2	37
619	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	2.8	36
618	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	2	35
617	Bifurcation and Chaos in Coupled Oscillators **1991**,		35
616	A New Approach in the Study of Oscillation Criteria of Even-Order Neutral Differential Equations. *Mathematics*, **2020**, 8, 197	2.3	34
615	Investigating geometrically nonlinear vibrations of laminated shallow shells with layers of variable thickness via the R-functions theory. *Composite Structures*, **2015**, 125, 575-585	5.3	33
614	Chaotic dynamics of flexible beams with piezoelectric and temperature phenomena. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2013**, 377, 2058-2061	2.3	33
613	Mathematical model of a three-layer micro- and nano-beams based on the hypotheses of the GrigolyukChulkov and the modified couple stress theory. *International Journal of Solids and Structures*, **2017**, 117, 39-50	3.1	32
612	Analysis of the Nonlinear Dynamics of the Timoshenko Flexible Beams Using Wavelets. *Journal of Computational and Nonlinear Dynamics*, **2012**, 7,	1.4	32
611	Stick-slip chaos detection in coupled oscillators with friction. *International Journal of Solids and Structures*, **2005**, 42, 5669-5682	3.1	32
610	Asymptotic Analysis of Resonances in Nonlinear Vibrations of the 3-dof Pendulum. *Differential Equations and Dynamical Systems*, **2013**, 21, 123-140	0.8	31
609	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	2	31
608	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	3.7	30
607	Asymptotic analysis of kinematically excited dynamical systems near resonances. *Nonlinear Dynamics*, **2012**, 68, 459-469	5	30
606	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	2.8	29
605	Application and experimental validation of new computational models of friction forces and rolling resistance. *Acta Mechanica*, **2015**, 226, 2831-2848	2.1	29

604	Chaos in simple mechanical systems with friction. *Journal of Sound and Vibration*, **1986**, 109, 178-180	3.9	29
603	CONTROLLING SYSTEMS WITH IMPACTS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **1999**, 09, 547-553	2	28
602	Quantifying Chaos by Various Computational Methods. Part 1: Simple Systems. *Entropy*, **2018**, 20,	2.8	27
601	Chaos prediction in the duffing-type system with friction using Melnikov's function. *Nonlinear Analysis: Real World Applications*, **2006**, 7, 12-24	2.1	27
600	On continuous approximation of discontinuous systems. *Nonlinear Analysis: Theory, Methods & Applications*, **2005**, 62, 1317-1331	1.3	27
599	Stability analysis and Lyapunov exponents of a multi-body mechanical system with rigid unilateral constraints. *Nonlinear Analysis: Theory, Methods & Applications*, **2005**, 63, e909-e918	1.3	27
598	Bifurcation portrait of the human vocal cord oscillations. *Journal of Sound and Vibration*, **1990**, 136, 151-156	3.9	27
597	Routes to chaos in continuous mechanical systems: Part 2. Modelling transitions from regular to chaotic dynamics. *Chaos, Solitons and Fractals*, **2012**, 45, 709-720	9.3	26
596	Experimental and numerical investigation of chaotic regions in the triple physical pendulum. *Nonlinear Dynamics*, **2007**, 50, 755-766	5	26
595	Estimation of Chaotic and Regular (StickSlip and SlipSlip) Oscillations Exhibited by Coupled Oscillators with Dry Friction. *Nonlinear Dynamics*, **2005**, 42, 383-394	5	26
594	Bifurcation and Chaos in Simple Dynamical Systems **1989**,		26
593	**2014**,		26
592	Chaotic dynamics of flexible Euler-Bernoulli beams. *Chaos*, **2013**, 23, 043130	3.3	25
591	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	2	25
590	Modelling of hysteresis using MasingBouc-Wen framework and search of conditions for the chaotic responses. *Communications in Nonlinear Science and Numerical Simulation*, **2008**, 13, 939-958	3.7	25
589	Feigenbaum Scenario Exhibited by Thin Plate Dynamics. *Nonlinear Dynamics*, **2001**, 24, 373-398	5	25
588	Construction of Periodic Solutions to Partial Differential Equations with Non-Linear Boundary Conditions.. *International Journal of Nonlinear Sciences and Numerical Simulation*, **2000**, 1,	1.8	25
587	Chaos in Structural Mechanics. *Understanding Complex Systems*, **2008**,	0.4	25

586   Coupled oscillators in identification of nonlinear damping of a real parametric pendulum. *Mechanical Systems and Signal Processing*, **2018**, 98, 91-107   7.8   24

585   Dynamics Investigation of Three Coupled Rods with a Horizontal Barrier. *Meccanica*, **2003**, 38, 687-698   2.1   24

584   Deterministic Chaos in One-Dimensional Continuous Systems. *World Scientific Series on Nonlinear Science, Series A*, **2016**,   3.3   24

583   Size-dependent parameter cancels chaotic vibrations of flexible shallow nano-shells. *Journal of Sound and Vibration*, **2019**, 446, 374-386   3.9   23

582   A direct numerical method for quantifying regular and chaotic orbits. *Chaos, Solitons and Fractals*, **2004**, 19, 503-507   9.3   23

581   An artificial small perturbation parameter and nonlinear plate vibrations. *Journal of Sound and Vibration*, **2005**, 283, 561-571   3.9   23

580   SPATIO-TEMPORAL CHAOS AND SOLITONS EXHIBITED BY VON KRMN MODEL. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2002**, 12, 1465-1513   2   23

579   Nonlinear Dynamics of Continuous Elastic Systems **2004**,   23

578   Prototype, control system architecture and controlling of the hexapod legs with nonlinear stick-slip vibrations. *Mechatronics*, **2016**, 37, 63-78   3   22

577   Application of Hnon method in numerical estimation of the stickslip transitions existing in Filippov-type discontinuous dynamical systems with dry friction. *Nonlinear Dynamics*, **2013**, 73, 723-736   5   22

576   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   1.1   21

575   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   5.7   21

574   Nonlinear coupled problems in dynamics of shells. *International Journal of Engineering Science*, **2003**, 41, 587-607   5.7   21

573   Nonlinear deformations of spherical panels subjected to transversal load action. *Computer Methods in Applied Mechanics and Engineering*, **2005**, 194, 3108-3126   5.7   21

572   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   2   20

571   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   1.1   20

570   THE PISTON CONNECTING ROD CRANKSHAFT SYSTEM AS A TRIPLE PHYSICAL PENDULUM WITH IMPACTS. *International Journal of Bifurcation and Chaos in Applied Sciences and Engineering*, **2005**, 15, 2207-2226   2   20

569   Analysis of Non-Linear Vibrations of Single-Layered Euler-Bernoulli Beams using Wavelets. *International Journal of Aerospace and Lightweight Structures (IJALS)*, **2011**, 01, 203   20

568	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	2.8	20
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566	Continuous models for 2D discrete media valid for higher-frequency domain. *Computers and Structures*, **2008**, 86, 140-144	4.5	19
565	Nonlinear vibration and characteristics of flexible plate-strips with non-symmetric boundary conditions. *Communications in Nonlinear Science and Numerical Simulation*, **2006**, 11, 95-124	3.7	19
564	Complex Parametric Vibrations of Flexible Rectangular Plates. *Meccanica*, **2004**, 39, 221-244	2.1	19
563	Stability of the Size-Dependent and Functionally Graded Curvilinear Timoshenko Beams. *Journal of Computational and Nonlinear Dynamics*, **2017**, 12,	1.4	17
562	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	2.8	17
561	The vibrational motion of a spring pendulum in a fluid flow. *Results in Physics*, **2020**, 19, 103465	3.7	17
560	MODELING AND ANALYSIS OF THERMAL PROCESSES IN MECHANICAL FRICTION CLUTCH ▯ NUMERICAL AND EXPERIMENTAL INVESTIGATIONS. *International Journal of Structural Stability and Dynamics*, **2013**, 13, 1340004	1.9	16
559	Asymptotical behaviour of a system with damping and high power-form non-linearity. *Journal of Sound and Vibration*, **2003**, 267, 1169-1174	3.9	16
558	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	2.3	16
557	Bifurcations and chaos of a particular van der Pol-Duffing oscillator. *Journal of Sound and Vibration*, **1989**, 132, 89-100	3.9	16
556	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	1.9	15
555	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	2.8	15
554	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	7	15
553	An experiment with swinging up a double pendulum using feedback control. *Journal of Computer and Systems Sciences International*, **2012**, 51, 176-182	1	15
552	Numerical evaluation of bone remodelling and adaptation considering different hip prosthesis designs. *Clinical Biomechanics*, **2017**, 50, 122-129	2.2	15
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549	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	3.7	15
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547	Decomposition of governing equations in the analysis of resonant response of a nonlinear and non-ideal vibrating system. *Nonlinear Dynamics*, **2015**, 82, 299-309	5	14
546	Finite Element Analysis of Impact for Helmeted and Non-helmeted Head. *Journal of Medical and Biological Engineering*, **2018**, 38, 587-595	2.2	14
545	On the contact interaction between two rectangular plates. *Nonlinear Dynamics*, **2016**, 85, 2729-2748	5	14
544	Stationary and Transient Resonant Response of a Spring Pendulum. *Procedia IUTAM*, **2016**, 19, 201-208		14
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538	FREE VIBRATIONS OF DOUBLY CURVED IN-PLANE NON-HOMOGENEOUS SHELLS. *Journal of Sound and Vibration*, **1999**, 225, 701-722	3.9	14
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535	Exact solutions for thermomagetized unsteady non-singularized jeffrey fluid: Effects of ramped velocity, concentration with newtonian heating. *Results in Physics*, **2021**, 26, 104367	3.7	14
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533	Chaotic vibrations of flexible shallow axially symmetric shells. *Nonlinear Dynamics*, **2018**, 91, 2271-2291	5	13

532	Investigation of the stress-strain state of the laminated shallow shells by R-functions method combined with spline-approximation. *ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik*, **2011**, 91, 458-467	1	13
531	Chaotic Zones in Triple Pendulum Dynamics Observed Experimentally and Numerically. *Applied Mechanics and Materials*, **2007**, 9, 1-17	0.3	13
530	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	9.3	13
529	Second-order Emden–Fowler neutral differential equations: A new precise criterion for oscillation. *Applied Mathematics Letters*, **2021**, 118, 107172	3.5	13
528	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	0.8	12
527	On the general theory of chaotic dynamics of flexible curvilinear Euler–Bernoulli beams. *Nonlinear Dynamics*, **2015**, 79, 11-29	5	12
526	Noisy contact interactions of multi-layer mechanical structures coupled by boundary conditions. *Journal of Sound and Vibration*, **2016**, 369, 77-86	3.9	12
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520	Asymptotic Approaches to Strongly Non-linear Dynamical Systems. *Systems Analysis Modelling Simulation*, **2003**, 43, 255-268		12
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517	Dark and bright soliton solutions and computational modeling of nonlinear regularized long wave model. *Nonlinear Dynamics*, **2021**, 104, 661-682	5	12
516	Non-linear dynamics of size-dependent Euler–Bernoulli beams with topologically optimized microstructure and subjected to temperature field. *International Journal of Non-Linear Mechanics*, **2018**, 104, 75-86	2.8	12
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511	Quantifying non-linear dynamics of mass-springs in series oscillators via asymptotic approach. *Mechanical Systems and Signal Processing*, **2017**, 89, 149-158	7.8	11
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505	Modeling, numerical analysis and application of triple physical pendulum with rigid limiters of motion. *Archive of Applied Mechanics*, **2005**, 74, 746-753	2.2	11
504	Mathematical Modelling and Simulation of the Bifurcational Wobblestone Dynamics. *Discontinuity, Nonlinearity, and Complexity*, **2014**, 3, 123-132	1.8	11
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485	Rolling resistance modelling in the Celtic stone dynamics. *Multibody System Dynamics*, **2019**, 45, 155-167	2.8	10
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