

Jan Awrejcewicz

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.

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	Lower Limb Rehabilitation Exoskeleton with a Back Support [Mechanical Design. <i>Springer Proceedings in Mathematics and Statistics</i> , 2022 , 205-218	0.2	
638	Numerical Study of Natural Convection of Power Law Fluid in a Square Cavity Fitted with a Uniformly Heated T-Fin. <i>Mathematics</i> , 2022 , 10, 342	2.3	2
637	A Qualitative Study on Second-Order Nonlinear Fractional Differential Evolution Equations with Generalized ABC Operator. <i>Symmetry</i> , 2022 , 14, 207	2.7	3
636	Fractional Modeling of Viscous Fluid over a Moveable Inclined Plate Subject to Exponential Heating with Singular and Non-Singular Kernels. <i>Mathematical and Computational Applications</i> , 2022 , 27, 8	1	3
635	Numerical analysis of a second-grade fuzzy hybrid nanofluid flow and heat transfer over a permeable stretching/shrinking sheet.. <i>Scientific Reports</i> , 2022 , 12, 1631	4.9	7
634	Integral Resonant Controller to Suppress the Nonlinear Oscillations of a Two-Degree-of-Freedom Rotor Active Magnetic Bearing System. <i>Processes</i> , 2022 , 10, 271	2.9	2
633	Stochastic Analysis of Nonlinear Cancer Disease Model through Virotherapy and Computational Methods. <i>Mathematics</i> , 2022 , 10, 368	2.3	1
632	Double Diffusive Magneto-Free-Convection Flow of Oldroyd-B Fluid over a Vertical Plate with Heat and Mass Flux. <i>Symmetry</i> , 2022 , 14, 209	2.7	7
631	On the stability of the equilibrium of the double pendulum with follower force: Some new results. <i>Journal of Sound and Vibration</i> , 2022 , 523, 116699	3.9	0
630	Quantifying periodic, multi-periodic, hidden and unstable regimes of a magnetic pendulum via semi-analytical, numerical and experimental methods. <i>Journal of Sound and Vibration</i> , 2022 , 524, 116710	3.9	0
629	Mathematical modelling, numerical and experimental analysis of one-degree-of-freedom oscillator with Duffing-type stiffness. <i>International Journal of Non-Linear Mechanics</i> , 2022 , 138, 103859	2.8	0
628	Nonlinear Dynamics of Flexible Meshed Cylindrical Panels in the White Noise Field. <i>Springer Proceedings in Mathematics and Statistics</i> , 2022 , 29-36	0.2	
627	Modelling and Control of a Lower Limb Exoskeleton Driven by Linear Actuators. <i>Springer Proceedings in Mathematics and Statistics</i> , 2022 , 119-131	0.2	
626	Mathematical Approach to Assess a Human Gait. <i>Springer Proceedings in Mathematics and Statistics</i> , 2022 , 79-93	0.2	
625	Dynamical analysis of coronavirus disease with crowding effect, and vaccination: a study of third strain.. <i>Nonlinear Dynamics</i> , 2022 , 1-20	5	0
624	Analysing regular nonlinear vibrations of nano/micro plates based on the nonlocal theory and combination of reduced order modelling and multiple scale method. <i>Mechanical Systems and Signal Processing</i> , 2022 , 163, 108132	7.8	5
623	Dynamics analysis and control of a pendulum driven by a DC motor via a slider-crank mechanism. <i>Mechanical Systems and Signal Processing</i> , 2022 , 166, 108415	7.8	0

622	A new discontinuous impact model with finite collision duration. <i>Mechanical Systems and Signal Processing</i> , 2022 , 166, 108417	7.8	1
621	Magnetic and Electromagnetic Springs Forces: Determination and Usage in Damping Vibrations 2022 , 115-124		
620	Nonlinear Vibration of Functionally Graded Shallow Shells Resting on Elastic Foundations 2022 , 385-394		
619	Optimal design of the vascular stent ring in order to maximise radial stiffness. <i>Archive of Applied Mechanics</i> , 2022 , 92, 667-678	2.2	0
618	A Variety of Nabla Hardy Type Inequality on Time Scales. <i>Mathematics</i> , 2022 , 10, 722	2.3	1
617	Equivalent Electronic Circuit of a System of Oscillators Connected with Periodically Variable Stiffness. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2024	2.6	0
616	Some new wave profiles and conservation laws in a Pre-compressed one-dimensional granular crystal by Lie group analysis. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	0
615	1/3 Order Subharmonic Resonance Control of a Mass-Damper-Spring Model via Cubic-Position Negative-Velocity Feedback. <i>Symmetry</i> , 2022 , 14, 685	2.7	1
614	Nonlinear Stability and Linear Instability of Double-Diffusive Convection in a Rotating with LTNE Effects and Symmetric Properties: Brinkmann-Forchheimer Model. <i>Symmetry</i> , 2022 , 14, 565	2.7	2
613	Adaptive Nonsingular Terminal Sliding Mode Control for Performance Improvement of Perturbed Nonlinear Systems. <i>Mathematics</i> , 2022 , 10, 1064	2.3	2
612	Symmetric and Non-Oscillatory Characteristics of the Neutral Differential Equations Solutions Related to p-Laplacian Operators. <i>Symmetry</i> , 2022 , 14, 566	2.7	6
611	A Study of Continuous Dependence and Symmetric Properties of Double Diffusive Convection: Forchheimer Model. <i>Symmetry</i> , 2022 , 14, 682	2.7	2
610	2D and 3D Visualization for the Static Bifurcations and Nonlinear Oscillations of a Self-Excited System with Time-Delayed Controller. <i>Symmetry</i> , 2022 , 14, 621	2.7	1
609	Strain gradient bistability of bimorph piezoelectric curved beam interacting with a curved electrode. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022 , 44, 1	2	0
608	Mittag-Leffler form solutions of natural convection flow of second grade fluid with exponentially variable temperature and mass diffusion using Prabhakar fractional derivative. <i>Case Studies in Thermal Engineering</i> , 2022 , 102018	5.6	3
607	Natural Convection Water/Glycerin-CNT Fractionalized Nanofluid Flow in a Channel with Isothermal and Ramped Conditions.. <i>Nanomaterials</i> , 2022 , 12,	5.4	1
606	Mathematical modeling of nonlinear thermodynamics of nanoplates. <i>Chaos, Solitons and Fractals</i> , 2022 , 158, 112027	9.3	0
605	Hamiltonian energy computation and complex behavior of a small heterogeneous network of three neurons: circuit implementation. <i>Nonlinear Dynamics</i> , 2022 , 107, 2867-2886	5	4

604	Heat and Flow Control in Cavity with Cold Circular Cylinder Placed in Non-Newtonian Fluid by Performing Finite Element Simulations. <i>Coatings</i> , 2022 , 12, 16	2.9	3
603	Topological Optimization of Multilayer Structural Elements of MEMS/NEMS Resonators with an Adhesive Layer Subjected to Mechanical Loads. <i>Advanced Structured Materials</i> , 2022 , 155-166	0.6	0
602	Third-Order Superharmonic Resonance Analysis and Control in a Nonlinear Dynamical System. <i>Mathematics</i> , 2022 , 10, 1282	2.3	
601	Finite-Time Stability Analysis of Linear Differential Systems with Pure Delay. <i>Mathematics</i> , 2022 , 10, 1359	2.3	1
600	ALIPPF-Controller to Stabilize the Unstable Motion and Eliminate the Non-Linear Oscillations of the Rotor Electro-Magnetic Suspension System. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3902	2.6	1
599	New optical solitons of fractional nonlinear Schrodinger equation with the oscillating nonlinear coefficient: A comparative study. <i>Results in Physics</i> , 2022 , 105471	3.7	1
598	Complex dynamics of coupled neurons through a memristive synapse: extreme multistability and its control with selection of the desired state. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022 , 1-1	3.5	1
597	Dynamic analysis of functionally graded sandwich shells resting on elastic foundations. <i>Acta Mechanica</i> , 2022 , 233, 1895	2.1	
596	Coexistence of infinitely many patterns and their control in heterogeneous coupled neurons through a multistable memristive synapse. <i>Chaos</i> , 2022 , 32, 053114	3.3	0
595	Novel Multi Criteria Decision Making Approach for Interactive Aggregation Operators of q-Rung Orthopair Fuzzy Soft Set. <i>IEEE Access</i> , 2022 , 1-1	3.5	3
594	Quantifying chaotic dynamics of nanobeams with clearance. <i>International Journal of Non-Linear Mechanics</i> , 2022 , 104094	2.8	
593	Thermal and concentration diffusion impacts on MHD Maxwell fluid: A generalized Fourier's and Fick's perspective. <i>Case Studies in Thermal Engineering</i> , 2022 , 35, 102103	5.6	0
592	New Results of the Time-Space Fractional Derivatives of Korteweg-De Vries Equations via Novel Analytic Method. <i>Symmetry</i> , 2021 , 13, 2296	2.7	1
591	New Fractional Dynamic Inequalities via Conformable Delta Derivative on Arbitrary Time Scales. <i>Symmetry</i> , 2021 , 13, 2049	2.7	1
590	On the Performance of a Nonlinear Position-Velocity Controller to Stabilize Rotor-Active Magnetic-Bearings System. <i>Symmetry</i> , 2021 , 13, 2069	2.7	2
589	Nanostructural Members in Various Fields: A Literature Review. <i>Advanced Structured Materials</i> , 2021 , 1-23	0.6	
588	Lyapunov Exponents and Methods of Their Analysis. <i>Advanced Structured Materials</i> , 2021 , 79-91	0.6	
587	Reliability of Chaotic Vibrations of Euler-Bernoulli Beams with Clearance. <i>Advanced Structured Materials</i> , 2021 , 93-112	0.6	

586	Analysis of Simple Nonlinear Dynamical Systems. <i>Advanced Structured Materials</i> , 2021 , 113-129	0.6	
585	Mathematical Models of Micro- and Nano-cylindrical Panels in Temperature Field. <i>Advanced Structured Materials</i> , 2021 , 131-195	0.6	
584	Mathematical Models of Functionally Graded Beams in Temperature Field. <i>Advanced Structured Materials</i> , 2021 , 197-294	0.6	
583	Thermoelastic Vibrations of Timoshenko Microbeams (Modified Couple Stress Theory). <i>Advanced Structured Materials</i> , 2021 , 295-332	0.6	0
582	Vibrations of Size-Dependent Beams Under Topologic Optimization and Temperature Field. <i>Advanced Structured Materials</i> , 2021 , 333-402	0.6	0
581	Breakdown of a Nonlinear Stochastic Nipah Virus Epidemic Models through Efficient Numerical Methods.. <i>Entropy</i> , 2021 , 23,	2.8	0
580	Heat and Mass Transfer Impact on Differential Type Nanofluid with Carbon Nanotubes: A Study of Fractional Order System. <i>Fractal and Fractional</i> , 2021 , 5, 231	3	3
579	Steffensen-Type Inequalities with Weighted Function via (\square_a) -Nabla-Conformable Integral on Time Scales. <i>Mathematics</i> , 2021 , 9, 3046	2.3	0
578	On Soliton Solutions of Perturbed Boussinesq and KdV-Caudery-Dodd-Gibbon Equations. <i>Coatings</i> , 2021 , 11, 1429	2.9	1
577	Mathematical modeling of planar physically nonlinear inhomogeneous plates with rectangular cuts in the three-dimensional formulation. <i>Acta Mechanica</i> , 2021 , 232, 4933	2.1	1
576	Control Performance, Stability Conditions, and Bifurcation Analysis of the Twelve-Pole Active Magnetic Bearings System. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 10839	2.6	4
575	Novel Fractional Dynamic Hardy-Hilbert-Type Inequalities on Time Scales with Applications. <i>Mathematics</i> , 2021 , 9, 2964	2.3	2
574	Special functions-based solutions of unsteady convective flow of a MHD Maxwell fluid for ramped wall temperature and velocity with concentration. <i>Advances in Difference Equations</i> , 2021 , 2021,	3.6	2
573	New Oscillation Results of Even-Order Emden-Bowler Neutral Differential Equations. <i>Symmetry</i> , 2021 , 13, 2177	2.7	2
572	Modeling, Simulation, and Analysis of a Variable-Length Pendulum Water Pump. <i>Energies</i> , 2021 , 14, 8064	3.1	0
571	Complex dynamics from heterogeneous coupling and electromagnetic effect on two neurons: Application in images encryption. <i>Chaos, Solitons and Fractals</i> , 2021 , 153, 111577	9.3	2
570	Power Law Kernel Analysis of MHD Maxwell Fluid with Ramped Boundary Conditions: Transport Phenomena Solutions Based on Special Functions. <i>Fractal and Fractional</i> , 2021 , 5, 248	3	8
569	Phase portrait, multi-stability, sensitivity and chaotic analysis of Gardner equation with their wave turbulence and solitons solutions. <i>Results in Physics</i> , 2021 , 32, 104981	3.7	1

568	Biomechanical Analysis of Different Foot Morphology During Standing on a Dynamic Support Surface. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021 , 211-217	0.2	
567	Experimental Dynamical Analysis of a Mechatronic Analogy of the Human Circulatory System. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021 , 173-185	0.2	
566	. <i>IEEE Access</i> , 2021 , 9, 153012-153026	3.5	2
565	New Criteria for Oscillation of Half-Linear Differential Equations with p-Laplacian-like Operators. <i>Mathematics</i> , 2021 , 9, 2584	2.3	4
564	A Variety of New Traveling Wave Packets and Conservation Laws to the Nonlinear Low-Pass Electrical Transmission Lines via Lie Analysis. <i>Fractal and Fractional</i> , 2021 , 5, 170	3	2
563	On Some New Weighted Steffensen-Type Inequalities on Time Scales. <i>Mathematics</i> , 2021 , 9, 2670	2.3	7
562	Effect of Magnetic Field with Parabolic Motion on Fractional Second Grade Fluid. <i>Fractal and Fractional</i> , 2021 , 5, 163	3	4
561	Fractional Propagation of Short Light Pulses in Monomode Optical Fibers: Comparison of Beta Derivative and Truncated M- Fractional Derivative. <i>Journal of Computational and Nonlinear Dynamics</i> , 2021 ,	1.4	2
560	Influence of Body Tattoo on Thermal ImageA Case Report. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 209-214	0.4	2
559	Modelling of Frictional Contacts in 3D Dynamics of a Rigid Body. <i>Springer Proceedings in Physics</i> , 2021 , 3-12	0.2	1
558	Size-Dependent Theories of Beams, Plates and Shells. <i>Advanced Structured Materials</i> , 2021 , 25-78	0.6	3
557	Dark and bright soliton solutions and computational modeling of nonlinear regularized long wave model. <i>Nonlinear Dynamics</i> , 2021 , 104, 661-682	5	12
556	Chaotic vibrations of size-dependent flexible rectangular plates. <i>Chaos</i> , 2021 , 31, 043119	3.3	1
555	Nonlinear dynamics of heterogeneous shells Part 1. Statics and dynamics of heterogeneous variable stiffness shells. <i>International Journal of Non-Linear Mechanics</i> , 2021 , 130, 103669	2.8	4
554	More Effective Results for Testing Oscillation of Non-Canonical Neutral Delay Differential Equations. <i>Mathematics</i> , 2021 , 9, 1114	2.3	7
553	Double mode model of size-dependent chaotic vibrations of nanoplates based on the nonlocal elasticity theory. <i>Nonlinear Dynamics</i> , 2021 , 104, 3425	5	3
552	Nonlinear oscillations of coupled pendulums subjected to an external magnetic stimulus. <i>Mechanical Systems and Signal Processing</i> , 2021 , 154, 107560	7.8	4
551	Mathematical modeling of physically nonlinear 3D beams and plates made of multimodulus materials. <i>Acta Mechanica</i> , 2021 , 232, 3441-3469	2.1	2


550	Parametric vibrations of graphene sheets based on the double mode model and the nonlocal elasticity theory. <i>Nonlinear Dynamics</i> , 2021 , 105, 2173-2193	5	2
549	New Trends and Recent Advances In An Introduction. <i>World Scientific Series on Nonlinear Science, Series B</i> , 2021 , 1-12	0.3	
548	Principal component analysis in the linear theory of vibrations: Continuous mechanical systems driven by different kinds of external noise. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021 , 235, 48-62	1.3	3
547	Resonance study of spring pendulum based on asymptotic solutions with polynomial approximation in quadratic means. <i>Meccanica</i> , 2021 , 56, 963-980	2.1	5
546	Modeling and dynamics analysis of a forced two-degree-of-freedom mechanical oscillator with magnetic springs. <i>Mechanical Systems and Signal Processing</i> , 2021 , 148, 107138	7.8	4
545	Mathematical Modelling and Numerical Analysis of Size-Dependent Structural Members in Temperature Fields. <i>Advanced Structured Materials</i> , 2021 ,	0.6	1
544	Theoretical and numerical analysis of regular one-side oscillations in a single pendulum system driven by a magnetic field. <i>Mechanical Systems and Signal Processing</i> , 2021 , 150, 107229	7.8	8
543	Multi-parametric evolution of conditions leading to cancer invasion in biological systems. <i>Applied Mathematical Modelling</i> , 2021 , 90, 46-60	4.5	1
542	Nonlinear vibration of a lumped system with springs-in-series. <i>Meccanica</i> , 2021 , 56, 753-767	2.1	2
541	Nonlinear dynamics of heterogeneous shells. Part 2. Chaotic dynamics of variable thickness shells. <i>International Journal of Non-Linear Mechanics</i> , 2021 , 129, 103660	2.8	0
540	Estimating the region of attraction based on a polynomial lyapunov function. <i>Applied Mathematical Modelling</i> , 2021 , 90, 1143-1152	4.5	2
539	Comparison of femur strain under different loading scenarios: Experimental testing. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021 , 235, 17-27	1.7	0
538	Could Thermal Imaging Supplement Surface Electromyography Measurements for Skeletal Muscles?. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-10	5.2	4
537	Application of the R-functions in free vibration analysis of FGM plates and shallow shells with temperature dependent properties. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2021 , 101, e202000080	1	1
536	Study of composite fractional relaxation differential equation using fractional operators with and without singular kernels and special functions. <i>Advances in Difference Equations</i> , 2021 , 2021,	3.6	5
535	Dynamics of Coupled Nonlinear Oscillators with Mistuning. <i>Mechanisms and Machine Science</i> , 2021 , 445-451		
534	Adaptive Tracking PID and FOPID Speed Control of an Elastically Attached Load Driven by a DC Motor at Almost Step Disturbance of Loading Torque and Parametric Excitation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 679	2.6	2
533	On the chaotic and hyper-chaotic dynamics of nanobeams with low shear stiffness. <i>Chaos</i> , 2021 , 31, 023107	10.7	1

532	Exact solutions for thermomagnetized unsteady non-singularized Jeffrey fluid: Effects of ramped velocity, concentration with Newtonian heating. <i>Results in Physics</i> , 2021 , 26, 104367	3.7	14
531	New Oscillation Criteria for Neutral Delay Differential Equations of Fourth-Order. <i>Symmetry</i> , 2021 , 13, 1277	2.7	2
530	Second-order Emden-Fowler neutral differential equations: A new precise criterion for oscillation. <i>Applied Mathematics Letters</i> , 2021 , 118, 107172	3.5	13
529	Near-resonant dynamics, period doubling and chaos of a 3-DOF vibro-impact system. <i>Nonlinear Dynamics</i> , 2021 , 106, 81-103	5	3
528	Rub-Impact Force Induces Periodic, Quasiperiodic, and Chaotic Motions of a Controlled Asymmetric Rotor System. <i>Shock and Vibration</i> , 2021 , 2021, 1-27	1.1	4
527	Nonlinear Dynamics and Motion Bifurcations of the Rotor Active Magnetic Bearings System with a New Control Scheme and Rub-Impact Force. <i>Symmetry</i> , 2021 , 13, 1502	2.7	7
526	A Variety of Dynamic Steffensen-Type Inequalities on a General Time Scale. <i>Symmetry</i> , 2021 , 13, 1738	2.7	8
525	Influence of the Motion of a Spring Pendulum on Energy-Harvesting Devices. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8658	2.6	8
524	Exact Symmetric Solutions of MHD Casson Fluid Using Chemically Reactive Flow with Generalized Boundary Conditions. <i>Energies</i> , 2021 , 14, 6243	3.1	2
523	On 3D and 1D mathematical modeling of physically nonlinear beams. <i>International Journal of Non-Linear Mechanics</i> , 2021 , 134, 103734	2.8	1
522	Reflection at non-free boundary of a micropolar piezoelectric half-space. <i>Forces in Mechanics</i> , 2021 , 3, 100019	1.5	1
521	Thermophysical Investigation of Oldroyd-B Fluid with Functional Effects of Permeability: Memory Effect Study Using Non-Singular Kernel Derivative Approach. <i>Fractal and Fractional</i> , 2021 , 5, 124	3	12
520	Criteria for the Oscillation of Solutions to Linear Second-Order Delay Differential Equation with a Damping Term. <i>Axioms</i> , 2021 , 10, 246	1.6	0
519	Magneto-free-convection flow of a rate type fluid over an inclined plate with heat and mass flux. <i>Case Studies in Thermal Engineering</i> , 2021 , 27, 101249	5.6	3
518	Multistability and dynamic behavior of non-linear wave solutions for analytical kink periodic and quasi-periodic wave structures in plasma physics. <i>Results in Physics</i> , 2021 , 29, 104735	3.7	3
517	A Lyapunov-Based Optimal Integral Finite-Time Tracking Control Approach for Asymmetric Nonholonomic Robotic Systems. <i>Symmetry</i> , 2021 , 13, 2367	2.7	1
516	Functional Effects of Permeability on Oldroyd-B Fluid under Magnetization: A Comparison of Slipping and Non-Slipping Solutions. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11477	2.6	3
515	Development of a finite-element model for bench testing of road fence rack. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 786, 012034	0.4	

514	Establishing New Criteria for Oscillation of Odd-Order Nonlinear Differential Equations. <i>Mathematics</i> , 2020 , 8, 937	2.3	7
513	A comparative study of the fractional oscillators. <i>AEJ - Alexandria Engineering Journal</i> , 2020 , 59, 2649-2676	2.6	3
512	A validation procedure to identify joint friction, reductor self-locking and gear backlash parameters. <i>Archive of Applied Mechanics</i> , 2020 , 90, 1625-1641	2.2	3
511	A New Approach in the Study of Oscillation Criteria of Even-Order Neutral Differential Equations. <i>Mathematics</i> , 2020 , 8, 197	2.3	34
510	A meshfree approach for analysis and computational modeling of non-linear Schrödinger equation. <i>Computational and Applied Mathematics</i> , 2020 , 39, 1	2.4	10
509	On the mathematical modeling of symmetric/asymmetric multi-layer orthotropic shells. <i>International Journal of Non-Linear Mechanics</i> , 2020 , 120, 103425	2.8	1
508	On the Bolotin's reduced beam model versus various boundary conditions. <i>Mechanics Research Communications</i> , 2020 , 105, 103505	2.2	
507	Ritz Method in Vibration Analysis for Embedded Single-Layered Graphene Sheets Subjected to In-Plane Magnetic Field. <i>Symmetry</i> , 2020 , 12, 515	2.7	2
506	Elastic and Thermoelastic Problems in Nonlinear Dynamics of Structural Members. <i>Scientific Computation</i> , 2020 ,	0.1	7
505	Decreasing Shear Stresses of the Solder Joints for Mechanical and Thermal Loads by Topological Optimization. <i>Materials</i> , 2020 , 13,	3.5	3
504	Nonlinear Vibrations of Embedded Nanoplates Under In-Plane Magnetic Field Based on Nonlocal Elasticity Theory. <i>Journal of Computational and Nonlinear Dynamics</i> , 2020 , 15,	1.4	3
503	Scenarios of Transition from Periodic to Chaotic Shell Vibrations. <i>Scientific Computation</i> , 2020 , 439-450	0.1	
502	Chaotic Dynamics of Flexible Closed Cylindrical Nano-Shells Under Local Load. <i>Scientific Computation</i> , 2020 , 479-493	0.1	
501	Chaotic Vibrations of Flexible Shallow Axially Symmetric Shells vs. Different Boundary Conditions. <i>Scientific Computation</i> , 2020 , 521-549	0.1	
500	Mathematical Models of Chaotic Vibrations of Closed Cylindrical Shells with Circle Cross Section. <i>Scientific Computation</i> , 2020 , 451-478	0.1	
499	Unsolved Problems in Nonlinear Dynamics of Thin Structural Members. <i>Scientific Computation</i> , 2020 , 573-586	0.1	
498	External and Internal Resonances in a Mass-Spring-Damper System with 3-dof 2020 , 169-178		
497	Coupled Thermoelasticity and Transonic Gas Flow. <i>Scientific Computation</i> , 2020 , 19-119	0.1	

496	Numerical Investigations of the Errors of the Bubnov-Galerkin Method. <i>Scientific Computation</i> , 2020 , 175-189	0.1	
495	Theory with Physical Nonlinearities and Coupling. <i>Scientific Computation</i> , 2020 , 233-244	0.1	
494	Theoretical study of the blood flow in arteries in the presence of magnetic particles and under periodic body acceleration. <i>Chaos, Solitons and Fractals</i> , 2020 , 140, 110204	9.3	2
493	Chaotic Vibrations of Two Euler-Bernoulli Beams With a Small Clearance. <i>Scientific Computation</i> , 2020 , 551-571	0.1	
492	Lower Extremity Muscle Morphology and Plantar Loading During Squatting with Different Heel Heights. <i>Journal of Medical Imaging and Health Informatics</i> , 2020 , 10, 1210-1215	1.2	1
491	Parametric Vibrations of Functionally Graded Sandwich Plates with Complex Forms 2020 , 69-77		1
490	Analysis of the Internal Load the Ankle Joint Module as the Basic Structural Assembly of the Lower Limb Rehabilitation Exoskeleton. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 106-117	0.4	
489	Nonlinear Problems of Hybrid-Form Equations. <i>Scientific Computation</i> , 2020 , 245-366	0.1	
488	Contact Interaction of Two Rectangular Plates Made from Different Materials with an Account of Physical Non-Linearity. <i>Scientific Computation</i> , 2020 , 495-520	0.1	
487	Dynamics of Thin Elasto-Plastic Shells. <i>Scientific Computation</i> , 2020 , 367-413	0.1	
486	Estimation of the Errors of the Bubnov-Galerkin Method. <i>Scientific Computation</i> , 2020 , 121-173	0.1	
485	Mathematical Model of Cylindrical/Spherical Shell Vibrations. <i>Scientific Computation</i> , 2020 , 415-438	0.1	
484	Coupled Nonlinear Thermoelastic Problems. <i>Scientific Computation</i> , 2020 , 191-232	0.1	
483	Modelling and Analysis of Bifurcation Dynamics of Two Coupled Pendulums with a Magnetic Forcing. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2020 , 213-223	0.3	4
482	Dynamical response of a pendulum driven horizontally by a DC motor with a slider-crank mechanism. <i>Nonlinear Dynamics</i> , 2020 , 99, 1923-1935	5	6
481	The vibrational motion of a spring pendulum in a fluid flow. <i>Results in Physics</i> , 2020 , 19, 103465	3.7	17
480	Refinement of the Maxwell formula for a composite reinforced by circular cross-section fibres. Part II: using Padé approximants. <i>Acta Mechanica</i> , 2020 , 231, 5145-5157	2.1	
479	Stability and Boundedness of the Solutions of Multi-Parameter Dynamical Systems with Circulatory Forces. <i>Symmetry</i> , 2020 , 12, 1210	2.7	4

478	Vibrations and buckling of orthotropic small-scale plates with complex shape based on modified couple stress theory. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2020 , 100, e202000009	1	0
477	Stability Improvement of Flexible Shallow Shells Using Neutron Radiation. <i>Materials</i> , 2020 , 13,	3.5	1
476	Responses of a two degrees-of-freedom system with uncertain parameters in the vicinity of resonance 1:1. <i>Nonlinear Dynamics</i> , 2020 , 101, 85-106	5	1
475	Reflectivity of Cholesteric Liquid Crystals with an Anisotropic Defect Layer Inside. <i>Photonics</i> , 2020 , 7, 58	2.2	1
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