

Oleg Gendelman

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.

183
papers

4,795
citations

38
h-index

63
g-index

193
ext. papers

5,457
ext. citations

3.7
avg, IF

6.19
L-index

#	Paper	IF	Citations
183	Approximation of potential function in the problem of forced escape. <i>Journal of Sound and Vibration</i> , 2022 , 526, 116765	3.9	
182	Effect of asymmetric cooling of sessile droplets on orientation of the freezing tip.. <i>Journal of Colloid and Interface Science</i> , 2022 , 620, 179-186	9.3	1
181	Resonance and energy transfer in forced vibro-impact systems with linear compliance. <i>International Journal of Non-Linear Mechanics</i> , 2022 , 104104	2.8	
180	Kapitza resistance at a domain boundary in linear and nonlinear chains.. <i>Physical Review E</i> , 2021 , 104, 054119	2.4	0
179	Analytic exploration of safe basins in a benchmark problem of forced escape. <i>Nonlinear Dynamics</i> , 2021 , 106, 1573	5	0
178	On the escape of a resonantly excited couple of particles from a potential well. <i>Nonlinear Dynamics</i> , 2021 , 104, 91-102	5	0
177	Kapitza thermal resistance in linear and nonlinear chain models: Isotopic defect. <i>Physical Review E</i> , 2021 , 103, 052113	2.4	2
176	Escape of a forced-damped particle from weakly nonlinear truncated potential well. <i>Nonlinear Dynamics</i> , 2021 , 103, 63-78	5	4
175	Effect of Finite Vessel Stiffness on Transition from Two-Dimensional Liquid Sloshing to Swirling: Reduced-Order Modeling. <i>Advanced Structured Materials</i> , 2021 , 243-261	0.6	
174	Modal synchronization of coupled bistable van der Pol oscillators. <i>Chaos, Solitons and Fractals</i> , 2021 , 143, 110555	9.3	2
173	Applicability and Limitations of Simplified Elastic Shell Theories for Vibration Modelling of Double-Walled Carbon Nanotubes. <i>Journal of Carbon Research</i> , 2021 , 7, 61	3.3	0
172	Breather arrest in a chain of damped oscillators with Hertzian contact. <i>Wave Motion</i> , 2021 , 106, 102779	1.8	1
171	Extreme intermodal energy transfers through vibro-impacts for highly effective and rapid blast mitigation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 103, 106012	3.7	1
170	Giant amplification of small perturbations in frictional amorphous solids. <i>Physical Review E</i> , 2020 , 101, 062902	2.4	3
169	Kapitza resistance in basic chain models with isolated defects. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126220	2.3	4
168	Energy transmission by impact in a system of two discrete oscillators. <i>Nonlinear Dynamics</i> , 2020 , 100, 135-145	5	2
167	Cherenkov-Like Surface Thermal Waves Emerging from Self-Propulsion of a Liquid Marble. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 695-699	3.4	5

166	Weakly Nonlinear Liquid Sloshing: Modelling and Exploration of Response Regimes 2020 , 187-195		
165	Stability of compact breathers in translationally-invariant nonlinear chains with flat dispersion bands. <i>Chaos, Solitons and Fractals</i> , 2020 , 132, 109526	9.3	1
164	Nucleation and propagation of excitation fronts in self-excited systems. <i>Physica D: Nonlinear Phenomena</i> , 2020 , 401, 132176	3.3	5
163	Edge states and frequency response in nonlinear forced-damped model of valve spring. <i>Nonlinear Dynamics</i> , 2020 , 99, 661-678	5	
162	Rapid non-resonant intermodal targeted energy transfer (IMTET) caused by vibro-impact nonlinearity. <i>Nonlinear Dynamics</i> , 2020 , 101, 2087-2106	5	4
161	Noise amplification in frictional systems: Oscillatory instabilities. <i>Physical Review E</i> , 2019 , 100, 042901	2.4	8
160	Oscillatory Instabilities in Frictional Granular Matter. <i>Physical Review Letters</i> , 2019 , 123, 098003	7.4	15
159	Basic mechanisms of escape of a harmonically forced classical particle from a potential well. <i>Nonlinear Dynamics</i> , 2019 , 98, 2775-2792	5	8
158	Universal scaling laws for shear induced dilation in frictional granular media. <i>Granular Matter</i> , 2019 , 21, 1	2.6	5
157	Study of the displacement of floating diamagnetic bodies by a magnetic field. <i>Surface Innovations</i> , 2019 , 7, 194-202	1.9	7
156	Escape dynamics of a forced-damped classical particle in an infinite-range potential well. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2019 , 101, e201800298	1	5
155	Breather arrest, localization, and acoustic non-reciprocity in dissipative nonlinear lattices. <i>Journal of the Acoustical Society of America</i> , 2019 , 146, 826	2.2	15
154	Dynamics of a hybrid vibro-impact nonlinear energy sink. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2019 , 101, e201800341	1	3
153	Shockwaves and Kinks in Exothermic Nonlinear Chains. <i>Advanced Structured Materials</i> , 2019 , 333-366	0.6	
152	Mixed global dynamics of forced vibro-impact oscillator with Coulomb friction. <i>Chaos</i> , 2019 , 29, 113116	3.3	7
151	Response regimes in equivalent mechanical model of moderately nonlinear liquid sloshing. <i>Nonlinear Dynamics</i> , 2018 , 92, 1517-1538	5	9
150	Nonreciprocity in the dynamics of coupled oscillators with nonlinearity, asymmetry, and scale hierarchy. <i>Physical Review E</i> , 2018 , 97, 012219	2.4	35
149	Toward an Understanding of Magnetic Displacement of Floating Diamagnetic Bodies, I: Experimental Findings. <i>Langmuir</i> , 2018 , 34, 6388-6395	4	17

148	Escape of a harmonically forced particle from an infinite-range potential well: a transient resonance. <i>Nonlinear Dynamics</i> , 2018 , 93, 79-88	5	18
147	Kinks in chains with on-site bistable nondegenerate potential: Beyond traveling waves. <i>Physical Review E</i> , 2018 , 98, 012220	2.4	2
146	Transient dynamics in strongly nonlinear systems: optimization of initial conditions on the resonant manifold. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	3
145	Introduction to a topical issue Nonlinear energy transfer in dynamical and acoustical Systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	8
144	Propagation of transition fronts in nonlinear chains with non-degenerate on-site potentials. <i>Chaos</i> , 2018 , 28, 023104	3.3	6
143	Acoustic diode: Wave non-reciprocity in nonlinearly coupled waveguides. <i>Wave Motion</i> , 2018 , 83, 49-66	1.8	25
142	Localization in Finite Asymmetric Vibro-Impact Chains. <i>SIAM Journal on Applied Dynamical Systems</i> , 2018 , 17, 1961-1988	2.8	1
141	Tuned pendulum as nonlinear energy sink for broad energy range. <i>JVC/Journal of Vibration and Control</i> , 2017 , 23, 373-388	2	25
140	Energy Exchange and Localization in Essentially Nonlinear Oscillatory Systems: Canonical Formalism. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2017 , 84,	2.7	13
139	Instability of a Curved Pipe Flow With a Sudden Expansion. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017 , 139,	2.1	3
138	Propagation of transition front in bi-stable nondegenerate chains: Model dependence and universality. <i>Journal of the Mechanics and Physics of Solids</i> , 2017 , 104, 144-156	5	7
137	Response regimes in equivalent mechanical model of strongly nonlinear liquid sloshing. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 94, 146-159	2.8	16
136	Vibration mitigation in partially liquid-filled vessel using passive energy absorbers. <i>Journal of Sound and Vibration</i> , 2017 , 406, 51-73	3.9	12
135	Analytical, experimental and finite element analysis of elliptical cross-section helical spring with small helix angle under static load. <i>International Journal of Mechanical Sciences</i> , 2017 , 130, 476-486	5.5	10
134	Compact localized states and flat-band generators in one dimension. <i>Physical Review B</i> , 2017 , 95,	3.3	70
133	Effect of an internal nonlinear rotational dissipative element on vortex shedding and vortex-induced vibration of a sprung circular cylinder. <i>Journal of Fluid Mechanics</i> , 2017 , 828, 196-235	3.7	25
132	Flat bands and compactons in mechanical lattices. <i>Physical Review E</i> , 2017 , 96, 052208	2.4	7
131	Internal Resonances and Dynamic Responses in Equivalent Mechanical Model of Partially Liquid-Filled Vessel. <i>Procedia Engineering</i> , 2017 , 199, 3440-3443		1

130	Heat conduction in diatomic chains with correlated disorder. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 145-152	2.3	1
129	Heat conduction in a chain of colliding particles with a stiff repulsive potential. <i>Physical Review E</i> , 2016 , 94, 052137	2.4	4
128	Accelerating oscillatory fronts in a nonlinear sonic vacuum with strong nonlocal effects. <i>Physical Review E</i> , 2016 , 93, 032216	2.4	8
127	Internal resonances and dynamic responses in equivalent mechanical model of partially liquid-filled vessel. <i>Journal of Sound and Vibration</i> , 2016 , 379, 191-212	3.9	16
126	Discrete Breathers in Forced Chains of Oscillators with Cubic Nonlinearities. <i>Procedia IUTAM</i> , 2016 , 19, 236-243		2
125	Nonlinear energy sink with combined nonlinearities: Enhanced mitigation of vibrations and amplitude locking phenomenon. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016 , 230, 21-33	1.3	16
124	Flow in a Curved Pipe With a Sudden Expansion. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2016 , 138,	2.1	6
123	Normal heat conductivity in two-dimensional scalar lattices. <i>Europhysics Letters</i> , 2016 , 113, 24003	1.6	10
122	Emergent interparticle interactions in thermal amorphous solids. <i>Physical Review E</i> , 2016 , 94, 051001	2.4	7
121	Discrete breathers in an array of self-excited oscillators: Exact solutions and stability. <i>Chaos</i> , 2016 , 26, 103112	3.3	8
120	Forced System with Vibro-impact Energy Sink: Chaotic Strongly Modulated Responses. <i>Procedia IUTAM</i> , 2016 , 19, 53-64		13
119	Nonlinear dynamics of hidden modes in a system with internal symmetry. <i>Journal of Sound and Vibration</i> , 2016 , 377, 185-215	3.9	5
118	Capture into slow-invariant-manifold in the fluid-structure dynamics of a sprung cylinder with a nonlinear rotator. <i>Journal of Fluids and Structures</i> , 2016 , 63, 155-173	3.1	20
117	Gendelman et al. Reply. <i>Physical Review Letters</i> , 2016 , 117, 159802	7.4	1
116	Localization in finite vibroimpact chains: Discrete breathers and multibreathers. <i>Physical Review E</i> , 2016 , 94, 032204	2.4	7
115	Heat conduction in a chain of dissociating particles: Effect of dimensionality. <i>Physical Review E</i> , 2015 , 91, 032127	2.4	4
114	Boundary for Complete Set of Attractors for Forced Damped Essentially Nonlinear Systems. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2015 , 82,	2.7	2
113	Dynamics of forced system with vibro-impact energy sink. <i>Journal of Sound and Vibration</i> , 2015 , 358, 301-314	3.9	80

112	Dynamics and stability of a discrete breather in a harmonically excited chain with vibro-impact on-site potential. <i>Physica D: Nonlinear Phenomena</i> , 2015 , 292-293, 8-28	3.3	12
111	Mode complexity in a harmonically forced string with a local spring-damper and transitions from vibrations to waves. <i>Journal of Sound and Vibration</i> , 2015 , 334, 282-295	3.9	13
110	A floating self-propelling liquid marble containing aqueous ethanol solutions. <i>RSC Advances</i> , 2015 , 5, 101006-101012	3.7	58
109	Elastic properties of liquid marbles. <i>Colloid and Polymer Science</i> , 2015 , 293, 2157-2164	2.4	37
108	Elastic Properties of Liquid Surfaces Coated with Colloidal Particles. <i>Advances in Condensed Matter Physics</i> , 2015 , 2015, 1-6	1	10
107	Spreading plastic failure as a mechanism for the shear modulus reduction in amorphous solids. <i>Europhysics Letters</i> , 2015 , 110, 48001	1.6	5
106	Shear Transformation Zones: State determined or protocol dependent?. <i>Europhysics Letters</i> , 2015 , 109, 16002	1.6	23
105	On the effect of microalloying on the mechanical properties of metallic glasses. <i>Acta Materialia</i> , 2014 , 63, 209-215	8.4	7
104	Mechanical control of heat conductivity in molecular chains. <i>Physical Review E</i> , 2014 , 89, 012134	2.4	1
103	Normal heat conductivity in chains capable of dissociation. <i>Europhysics Letters</i> , 2014 , 106, 34004	1.6	19
102	Low voltage reversible electrowetting exploiting lubricated polymer honeycomb substrates. <i>Applied Physics Letters</i> , 2014 , 104, 171601	3.4	31
101	Effect of 1:3 resonance on the steady-state dynamics of a forced strongly nonlinear oscillator with a linear light attachment. <i>Archive of Applied Mechanics</i> , 2014 , 84, 1189-1203	2.2	12
100	Front propagation in a bistable system: how the energy is released. <i>Physical Review E</i> , 2014 , 89, 050901	2.4	9
99	Dynamical behavior of a mechanical system including Saint-Venant component coupled to a non-linear energy sink. <i>International Journal of Non-Linear Mechanics</i> , 2014 , 63, 10-18	2.8	20
98	Hydrophilization and hydrophobic recovery in polymers obtained by casting of polymer solutions on water surface. <i>Journal of Colloid and Interface Science</i> , 2014 , 435, 192-7	9.3	11
97	Elasticity and plasticity in stiff and flexible oligomeric glasses. <i>Physical Review E</i> , 2014 , 90, 042315	2.4	1
96	A generalized electrowetting equation: Its derivation and consequences. <i>Chemical Physics Letters</i> , 2014 , 599, 139-141	2.5	4
95	Submerged (under-liquid) floating of light objects. <i>Langmuir</i> , 2013 , 29, 10700-4	4	5

94	Nonlinear Resonances Leading to Strong Pulse Attenuation in Granular Dimer Chains. <i>Journal of Nonlinear Science</i> , 2013 , 23, 363-392	2.8	38
93	Exact solutions for discrete breathers in a forced-damped chain. <i>Physical Review E</i> , 2013 , 87, 062911	2.4	21
92	Dynamic responses and mitigation of limit cycle oscillations in Van der Pol-Duffing oscillator with nonlinear energy sink. <i>Journal of Sound and Vibration</i> , 2013 , 332, 5489-5507	3.9	26
91	Reduced-order model for laminar vortex-induced vibration of a rigid circular cylinder with an internal nonlinear absorber. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2013 , 18, 1916-1930	3.7	37
90	Dynamics of self-excited oscillators with neutral delay coupling. <i>Nonlinear Dynamics</i> , 2013 , 72, 683-694	5	15
89	Analytic treatment of a system with a vibro-impact nonlinear energy sink. <i>Journal of Sound and Vibration</i> , 2012 , 331, 4599-4608	3.9	95
88	Composite non-stick droplets and their actuation with electric field. <i>Applied Physics Letters</i> , 2012 , 100, 151601	3.4	61
87	Superhydrophobicity of lotus leaves versus birds wings: different physical mechanisms leading to similar phenomena. <i>Langmuir</i> , 2012 , 28, 14992-7	4	46
86	Alternation of regular and chaotic dynamics in a simple two-degree-of-freedom system with nonlinear inertial coupling. <i>Chaos</i> , 2012 , 22, 013118	3.3	41
85	Resonance captures and targeted energy transfers in an inertially-coupled rotational nonlinear energy sink. <i>Nonlinear Dynamics</i> , 2012 , 69, 1693-1704	5	105
84	Response regimes in linear oscillator with 2DOF nonlinear energy sink under periodic forcing. <i>Nonlinear Dynamics</i> , 2012 , 69, 1889-1902	5	13
83	Dynamics of an Eccentric Rotational Nonlinear Energy Sink. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012 , 79,	2.7	76
82	Nonstationary heat conduction in one-dimensional models with substrate potential. <i>Physical Review E</i> , 2012 , 85, 011105	2.4	17
81	Tractable Models of Solid Mechanics. <i>Foundations in Engineering Mechanics</i> , 2011 ,	0	31
80	Response regimes in forced system with non-linear energy sink: quasi-periodic and random forcing. <i>Nonlinear Dynamics</i> , 2011 , 64, 177-195	5	24
79	Targeted energy transfer in mechanical systems by means of non-smooth nonlinear energy sink. <i>Acta Mechanica</i> , 2011 , 221, 175-200	2.1	86
78	Targeted energy transfer in systems with external and self-excitation. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2011 , 225, 2007-2043	1.3	46
77	Relativistic Wetting Effects for Sessile Drops. <i>Journal of Adhesion Science and Technology</i> , 2011 , 25, 1403-1410		

76	Janus droplets: liquid marbles coated with dielectric/semiconductor particles. <i>Langmuir</i> , 2011 , 27, 7-10	4	95
75	Enhanced passive targeted energy transfer in strongly nonlinear mechanical oscillators. <i>Journal of Sound and Vibration</i> , 2011 , 330, 1-8	3.9	61
74	Discrete Finite Systems. <i>Foundations in Engineering Mechanics</i> , 2011 , 13-165	0	
73	Infinite Discrete Systems. <i>Foundations in Engineering Mechanics</i> , 2011 , 167-236	0	
72	Nonstationary heat conduction in one-dimensional chains with conserved momentum. <i>Physical Review E</i> , 2010 , 81, 020103	2.4	25
71	Asymptotic Analysis of Passive Nonlinear Suppression of Aeroelastic Instabilities of a Rigid Wing in Subsonic Flow. <i>SIAM Journal on Applied Mathematics</i> , 2010 , 70, 1655-1677	1.8	63
70	On interaction of vibrating beam with essentially nonlinear absorber. <i>Meccanica</i> , 2010 , 45, 355-365	2.1	15
69	Bifurcations of attractors in forced system with nonlinear energy sink: the effect of mass asymmetry. <i>Nonlinear Dynamics</i> , 2010 , 59, 711-731	5	15
68	On the mechanism of patterning in rapidly evaporated polymer solutions: is temperature-gradient-driven Marangoni instability responsible for the large-scale patterning?. <i>Journal of Colloid and Interface Science</i> , 2010 , 343, 602-7	9.3	33
67	Interaction of nonlinear energy sink with a two degrees of freedom linear system: Internal resonance. <i>Journal of Sound and Vibration</i> , 2010 , 329, 1836-1852	3.9	35
66	Bifurcations of self-excitation regimes in a Van der Pol oscillator with a nonlinear energy sink. <i>Physica D: Nonlinear Phenomena</i> , 2010 , 239, 220-229	3.3	35
65	On the applicability of the equipartition theorem. <i>Thermal Science</i> , 2010 , 14, 855-858	1.2	2
64	Targeted Energy Transfer in Systems with Periodic Excitations. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2010 , 53-128	0.6	0
63	Forced oscillations of beam with essentially nonlinear absorber. <i>Strength of Materials</i> , 2009 , 41, 310-317	0.6	4
62	Interaction of elastic system with snap-through vibration absorber. <i>International Journal of Non-Linear Mechanics</i> , 2009 , 44, 81-89	2.8	19
61	Vibration absorption in systems with a nonlinear energy sink: Nonlinear damping. <i>Journal of Sound and Vibration</i> , 2009 , 324, 916-939	3.9	134
60	Efficiency of targeted energy transfers in coupled nonlinear oscillators associated with 1:1 resonance captures: Part II, analytical study. <i>Journal of Sound and Vibration</i> , 2009 , 325, 297-320	3.9	68
59	Oscillatory models of vibro-impact type for essentially non-linear systems. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2008 , 222, 2007-2043	1.3	11

58	Discrete breathers in vibroimpact chains: analytic solutions. <i>Physical Review E</i> , 2008 , 78, 026609	2.4	19
57	A Portrait of Copper Processed by Equal Channel Angular Pressing. <i>Materials Transactions</i> , 2008 , 49, 31-37	1.3	39
56	Impulsive periodic and quasi-periodic orbits of coupled oscillators with essential stiffness nonlinearity. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2008 , 13, 959-978	3.7	22
55	Nonlinear normal modes in homogeneous system with time delays. <i>Nonlinear Dynamics</i> , 2008 , 52, 367-376		4
54	Essentially nonlinear vibration absorber in a parametrically excited system. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2008 , 88, 573-596	1	5
53	Strongly modulated response in forced 2DOF oscillatory system with essential mass and potential asymmetry. <i>Physica D: Nonlinear Phenomena</i> , 2008 , 237, 1719-1733	3.3	131
52	Efficiency of targeted energy transfers in coupled nonlinear oscillators associated with 1:1 resonance captures: Part I. <i>Journal of Sound and Vibration</i> , 2008 , 311, 1228-1248	3.9	74
51	Dynamics of a strongly nonlinear vibration absorber coupled to a harmonically excited two-degree-of-freedom system. <i>Journal of Sound and Vibration</i> , 2008 , 312, 234-256	3.9	84
50	Response regimes of linear oscillator coupled to nonlinear energy sink with harmonic forcing and frequency detuning. <i>Journal of Sound and Vibration</i> , 2008 , 315, 746-765	3.9	70
49	Targeted energy transfer in systems with non-polynomial nonlinearity. <i>Journal of Sound and Vibration</i> , 2008 , 315, 732-745	3.9	89
48	Self-Assembly in Evaporated Polymer Solutions: Patterning on Two Scales. <i>Israel Journal of Chemistry</i> , 2007 , 47, 319-328	3.4	9
47	Formation of Films on Water Droplets Floating on a Polymer Solution Surface. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 702-709	2.6	24
46	Response regimes of integrable damped strongly nonlinear oscillator under impact periodic forcing. <i>Chaos, Solitons and Fractals</i> , 2007 , 32, 405-414	9.3	7
45	Effect of supramolecular structure on polymer nanofibre elasticity. <i>Nature Nanotechnology</i> , 2007 , 2, 59-62	28.7	305
44	Robustness of nonlinear targeted energy transfer in coupled oscillators to changes of initial conditions. <i>Nonlinear Dynamics</i> , 2007 , 47, 377-387	5	19
43	Complex dynamics and targeted energy transfer in linear oscillators coupled to multi-degree-of-freedom essentially nonlinear attachments. <i>Nonlinear Dynamics</i> , 2007 , 48, 285-318	5	39
42	Attractors of harmonically forced linear oscillator with attached nonlinear energy sink I: Description of response regimes. <i>Nonlinear Dynamics</i> , 2007 , 51, 31-46	5	102
41	Attractors of harmonically forced linear oscillator with attached nonlinear energy sink. II: Optimization of a nonlinear vibration absorber. <i>Nonlinear Dynamics</i> , 2007 , 51, 47-57	5	85

40	Quasiperiodic forced vibrations of a beam interacting with a nonlinear spring. <i>Acta Mechanica</i> , 2007 , 192, 17-35	2.1	3
39	Quasi-Periodic Response Regimes of Linear Oscillator Coupled to Nonlinear Energy Sink Under Periodic Forcing. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2007 , 74, 325-331	2.7	61
38	Response Regimes of Linear Oscillator Coupled to Nonlinear Energy Sink Under Periodic Forcing: Account of Detuning 2007 , 1591		4
37	The Carnot engine based on the small thermodynamic system: Its efficiency and the ergodic hypothesis. <i>American Journal of Physics</i> , 2007 , 75, 911-915	0.7	7
36	Modeling of inelastic impacts with the help of smooth-functions. <i>Chaos, Solitons and Fractals</i> , 2006 , 28, 522-526	9.3	17
35	DEGENERATE BIFURCATION SCENARIOS IN THE DYNAMICS OF COUPLED OSCILLATORS WITH SYMMETRIC NONLINEARITIES. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2006 , 16, 169-178	2	2
34	Stability of an evaporating thin polymer film. <i>International Communications in Heat and Mass Transfer</i> , 2006 , 33, 564-570	5.8	3
33	Quasiperiodic energy pumping in coupled oscillators under periodic forcing. <i>Journal of Sound and Vibration</i> , 2006 , 294, 651-662	3.9	101
32	Self-assembly in evaporated polymer solutions: influence of the solution concentration. <i>Journal of Colloid and Interface Science</i> , 2006 , 297, 534-40	9.3	49
31	Grain size distribution and heat conductivity of copper processed by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 434, 88-94	5.3	31
30	Mechanisms of mesoscopic patterning in evaporated polymer films deposited on tilted and vertical substrates. <i>Journal of Materials Science</i> , 2006 , 41, 455-461	4.3	6
29	Dynamics of coupled linear and essentially nonlinear oscillators with substantially different masses. <i>Journal of Sound and Vibration</i> , 2005 , 286, 1-19	3.9	57
28	Dynamics of linear oscillator coupled to strongly nonlinear attachment with multiple states of equilibrium. <i>Chaos, Solitons and Fractals</i> , 2005 , 24, 501-509	9.3	63
27	Mesoscopic and submicroscopic patterning in thin polymer films: Impact of the solvent. <i>Materials Letters</i> , 2005 , 59, 2461-2464	3.3	38
26	Mesoscopic Patterning in Thin Polymer Films Formed under the Fast Dip-Coating Process. <i>Macromolecular Materials and Engineering</i> , 2005 , 290, 114-121	3.9	52
25	Self-assembled honeycomb polycarbonate films deposited on polymer piezoelectric substrates and their applications. <i>Polymers for Advanced Technologies</i> , 2005 , 16, 299-304	3.2	38
24	Heat conduction in a one-dimensional chain of hard disks with substrate potential. <i>Physical Review Letters</i> , 2004 , 92, 074301	7.4	30
23	Isolated Resonance Captures and Resonance Capture Cascades Leading to Single- or Multi-Mode Passive Energy Pumping in Damped Coupled Oscillators. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2004 , 126, 235-244	1.6	52

22	Bifurcations of Nonlinear Normal Modes of Linear Oscillator with Strongly Nonlinear Damped Attachment. <i>Nonlinear Dynamics</i> , 2004 , 37, 115-128	5	105
21	Method of Complex Amplitudes: Harmonically Excited Oscillator With Strong Cubic Nonlinearity 2003 , 2355		2
20	A Degenerate Bifurcation Structure in the Dynamics of Coupled Oscillators with Essential Stiffness Nonlinearities. <i>Nonlinear Dynamics</i> , 2003 , 33, 1-10	5	23
19	Dynamic interaction of a semi-infinite linear chain of coupled oscillators with a strongly nonlinear end attachment. <i>Physica D: Nonlinear Phenomena</i> , 2003 , 178, 1-18	3.3	30
18	Heat conduction in one-dimensional lattices with on-site potential. <i>Physical Review E</i> , 2003 , 67, 041205	2.4	68
17	Solitonic mechanism of structural transition in polymer/clay nanocomposites. <i>Journal of Chemical Physics</i> , 2003 , 119, 1066-1069	3.9	10
16	Transition of Energy to a Nonlinear Localized Mode in a Highly Asymmetric System of Two Oscillators. <i>Nonlinear Dynamics</i> , 2001 , 25, 237-253	5	182
15	Simple "kink" model of melt intercalation in polymer-clay nanocomposites. <i>Physical Review Letters</i> , 2001 , 86, 5073-5	7.4	33
14	Reflection of short rectangular pulses in the ideal string attached to strongly nonlinear oscillator. <i>Chaos, Solitons and Fractals</i> , 2000 , 11, 2473-2477	9.3	7
13	Transitions from localization to nonlocalization in strongly nonlinear damped oscillators. <i>Chaos, Solitons and Fractals</i> , 2000 , 11, 1535-1542	9.3	27
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