

Oded Gottlieb

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72
papers

1,173
citations

19
h-index

32
g-index

84
ext. papers

1,310
ext. citations

3.1
avg, IF

4.49
L-index

#	Paper	IF	Citations
72	Nonlinear damping in a micromechanical oscillator. <i>Nonlinear Dynamics</i> , 2012 , 67, 859-883	5	172
71	Chaotic rotation of triaxial ellipsoids in simple shear flow. <i>Journal of Fluid Mechanics</i> , 1997 , 340, 83-100	3.7	65
70	Continuum model of dispersion caused by an inherent material characteristic length. <i>Journal of Applied Physics</i> , 1995 , 77, 4054-4063	2.5	63
69	Nonlinear dynamics of a noncontacting atomic force microscope cantilever actuated by a piezoelectric layer. <i>Journal of Applied Physics</i> , 2002 , 91, 4701-4709	2.5	60
68	Nonlinear dynamics of temporally excited falling liquid films. <i>Physics of Fluids</i> , 2002 , 14, 2622-2636	4.4	47
67	Performance of an AuPd micromechanical resonator as a temperature sensor. <i>Applied Physics Letters</i> , 2010 , 96, 203105	3.4	40
66	Nonlinear oscillations, bifurcations and chaos in a multi-point mooring system with a geometric nonlinearity. <i>Applied Ocean Research</i> , 1992 , 14, 241-257	3.4	35
65	Nonlinear dynamic behavior of a microbeam array subject to parametric actuation at low, medium and large DC-voltages. <i>Nonlinear Dynamics</i> , 2012 , 67, 1-36	5	34
64	Subcritical and supercritical bifurcations of the first- and second-order Benney equations. <i>Journal of Engineering Mathematics</i> , 2004 , 50, 121-140	1.2	33
63	Spectral element methods for nonlinear spatio-temporal dynamics of an Euler-Bernoulli beam. <i>Computational Mechanics</i> , 1996 , 19, 136-151	4	33
62	Nonlinear dynamics, stability and control of the scan process in noncontacting atomic force microscopy. <i>Nonlinear Dynamics</i> , 2008 , 54, 93-122	5	32
61	Nonlinear dynamics of a microelectromechanical mirror in an optical resonance cavity. <i>Nonlinear Dynamics</i> , 2012 , 69, 1589-1610	5	31
60	Non-linear model-based estimation of quadratic and cubic damping mechanisms governing the dynamics of a chaotic spherical pendulum. <i>JVC/Journal of Vibration and Control</i> , 2012 , 18, 536-547	2	27
59	Time resolved measurements of vortex-induced vibrations of a tethered sphere in uniform flow. <i>Physics of Fluids</i> , 2010 , 22, 087101	4.4	27
58	Internal resonance based sensing in non-contact atomic force microscopy. <i>Applied Physics Letters</i> , 2012 , 101, 053106	3.4	25
57	Dynamics of a Rotating System With a Nonlinear Eddy-Current Damper. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1998 , 120, 848-853	1.6	25
56	Subharmonic resonance of Venice gates in waves. Part 2. Sinusoidally modulated incident waves. <i>Journal of Fluid Mechanics</i> , 1997 , 349, 327-359	3.7	24

55	Coupling and tuning of modal frequencies in direct current biased microelectromechanical systems arrays. <i>Applied Physics Letters</i> , 2015 , 107, 063104	3.4	23
54	Nonlinear multimode dynamics and internal resonances of the scan process in noncontacting atomic force microscopy. <i>Journal of Applied Physics</i> , 2012 , 112, 074314	2.5	21
53	Asymptotic analysis of a noncontact AFM microcantilever sensor with external feedback control. <i>Nonlinear Dynamics</i> , 2015 , 79, 2675-2698	5	19
52	Newtonian glass fiber drawing: Chaotic variation of the cross-sectional radius. <i>Physics of Fluids</i> , 1999 , 11, 3201-3208	4.4	18
51	STABILITY AND BIFURCATIONS OF PARAMETRICALLY EXCITED THIN LIQUID FILMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2004 , 14, 4117-4141	2	17
50	Bifurcations and loss of orbital stability in nonlinear viscoelastic beam arrays subject to parametric actuation. <i>Journal of Sound and Vibration</i> , 2010 , 329, 3835-3855	3.9	16
49	NUMERICAL SOLUTIONS OF FORCED VIBRATION AND WHIRLING OF A NON-LINEAR STRING USING THE THEORY OF A COSSERAT POINT. <i>Journal of Sound and Vibration</i> , 1996 , 197, 85-101	3.9	16
48	Drag-induced instabilities and chaos in mooring systems. <i>Ocean Engineering</i> , 1993 , 20, 569-599	3.9	16
47	Weighted-residual integral boundary-layer model of temporally excited falling liquid films. <i>European Journal of Mechanics, B/Fluids</i> , 2009 , 28, 37-60	2.4	15
46	INTERNAL RESONANCES IN WHIRLING STRINGS INVOLVING LONGITUDINAL DYNAMICS AND MATERIAL NON-LINEARITIES. <i>Journal of Sound and Vibration</i> , 2000 , 236, 683-703	3.9	15
45	Top-down silicon microcantilever with coupled bottom-up silicon nanowire for enhanced mass resolution. <i>Nanotechnology</i> , 2015 , 26, 145502	3.4	14
44	INTERNAL RESONANCES AND BIFURCATIONS OF AN ARRAY BELOW THE FIRST PULL-IN INSTABILITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2010 , 20, 605-618	2	14
43	Nonlinear dynamics of a coupled surge-heave small-body ocean mooring system. <i>Ocean Engineering</i> , 1997 , 24, 479-495	3.9	13
42	Parameter Identification of Nonlinear Ocean Mooring Systems Using the Hilbert Transform. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 1996 , 118, 29-36	1.5	13
41	Analysis of Bifurcated Superstructure of Nonlinear Ocean System. <i>Journal of Engineering Mechanics - ASCE</i> , 1997 , 123, 1180-1187	2.4	12
40	Application of a Hilbert Transform-Based Algorithm for Parameter Estimation of a Nonlinear Ocean System Roll Model. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 1997 , 119, 239-243	1.5	12
39	Nonlinear Vibration of a Rotating System With an Electromagnetic Damper and a Cubic Restoring Force. <i>JVC/Journal of Vibration and Control</i> , 1998 , 4, 131-144	2	12
38	Spectral element methods for nonlinear temporal dynamical systems. <i>Computational Mechanics</i> , 1996 , 18, 302-313	4	12

37	Numerical analysis of a weighted-residual integral boundary-layer model for nonlinear dynamics of falling liquid films. <i>European Journal of Mechanics, B/Fluids</i> , 2009 , 28, 1-36	2.4	11
36	Local and Global Bifurcation Analyses of a Spatial Cable Elastica. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1999 , 66, 352-360	2.7	10
35	Global Bifurcations of Nonlinear Thermoelastic Microbeams Subject to Electrodynamic Actuation 2005 , 117-126		9
34	Asymptotic model-based estimation of a wake oscillator for a tethered sphere in uniform flow. <i>Journal of Fluids and Structures</i> , 2015 , 54, 361-389	3.1	7
33	Bifurcations of a Nonlinear Small-Body Ocean-Mooring System Excited by Finite-Amplitude Waves. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 1997 , 119, 234-238	1.5	7
32	Bifurcations and Routes to Chaos in Wave-Structure Interaction Systems. <i>Journal of Guidance, Control, and Dynamics</i> , 1992 , 15, 832-839	2.1	7
31	Self-excited chaotic dynamics of a nonlinear thermo-visco-elastic system that is subject to laser irradiation. <i>Applied Physics Letters</i> , 2012 , 101, 133507	3.4	6
30	Fluid-structure interaction of a rolling restrained body of revolution at high angles of attack. <i>Physics of Fluids</i> , 2017 , 29, 037106	4.4	5
29	Nonlinear dynamics and internal resonances of a planar multi-tethered spherical aerostat in modulated flow. <i>Meccanica</i> , 2016 , 51, 2689-2712	2.1	5
28	Nonlinear multi-element interactions in an elastically coupled microcantilever array subject to electrodynamic excitation. <i>Nonlinear Dynamics</i> , 2019 , 98, 3067-3094	5	4
27	The influence of the parasitic current on the nonlinear electrical response of capacitively sensed cantilever resonators. <i>Journal of Applied Physics</i> , 2015 , 117, 154502	2.5	4
26	Nonlinear Dynamics and Stability of a Machine Tool Traveling Joint. <i>Nonlinear Dynamics</i> , 1997 , 13, 373-394	3.4	4
25	Experimental investigation of response stability and transition behaviour of a nonlinear ocean structural system. <i>Ocean Engineering</i> , 1998 , 25, 323-343	3.9	4
24	Nonlinear Dynamics of a Taut String with Material Nonlinearities. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2001 , 123, 53-60	1.6	4
23	Application of reconstitution multiple scale asymptotics for a two-to-one internal resonance in Magnetic Resonance Force Microscopy. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 94, 174-199	2.8	3
22	Fluid-Structure Interaction of an Elastically Mounted Slender Body at High Incidence. <i>AIAA Journal</i> , 2015 , 53, 1309-1318	2.1	3
21	Nonlinear fluid-structure interaction of an elastic panel in an acoustically excited two-dimensional inviscid compressible fluid. <i>Physics of Fluids</i> , 2013 , 25, 076104	4.4	3
20	Parametric Excitation of a Microbeam-String With Asymmetric Electrodes: Multimode Dynamics and the Effect of Nonlinear Damping. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2017 , 139,	1.6	2

19	Nonlinear Bifurcation Structure of Panels Subject to Periodic Acoustic Fluid-Structure Interaction. <i>AIAA Journal</i> , 2012 , 50, 1979-1992	2.1	2
18	The Influence of Nonlinear Air Drag on Microbeam Response for Noncontact Atomic Force Microscopy 2007 , 975		2
17	Numerical Analysis of a Three Element Microbeam Array Subject to Electrodynamical Parametric Excitation 2008 ,		2
16	Local and global bifurcations in magnetic resonance force microscopy. <i>Nonlinear Dynamics</i> , 2020 , 99, 201-225	5	2
15	Global bifurcations and homoclinic chaos in nonlinear panel optomechanical resonators under combined thermal and radiation stresses. <i>Nonlinear Dynamics</i> , 2021 , 103, 3371-3405	5	2
14	Stabilization of a multi-tethered lighter-than-air rigid-body sphere undergoing vortex-induced vibrations in uniform flow. <i>Nonlinear Dynamics</i> , 2018 , 93, 1353-1369	5	1
13	Non-linear stability of a perturbed OrrSommerfeld solution for the wake of a stationary cylinder at low Reynolds numbers. <i>International Journal of Non-Linear Mechanics</i> , 2013 , 57, 176-182	2.8	1
12	Nonlinear Dynamics and Bifurcations of a Spherical Multi-tethered Lighter-Than-Air System in Uniform and Modulated Flow. <i>Procedia Engineering</i> , 2017 , 199, 717-722		1
11	Nonlinear dynamics and stability of a microcantilever for Magnetic Resonance Force Microscopy. <i>Nonlinear Theory and Its Applications IEICE</i> , 2013 , 4, 272-283	0.6	1
10	Nonlinear Dynamics and Internal Resonances of a Ship With a Rectangular Cross-Section in Head Seas. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2009 , 131,	1.5	1
9	Nonlinear Model Based Estimation of Rigid-Body Motion Via an Indirect Measurement of an Elastic Appendage. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2010 , 132,	1.6	1
8	Self-excited oscillations of a string on an elastic foundation subject to a nonlinear feed-forward force. <i>International Journal of Mechanical Sciences</i> , 2010 , 52, 1535-1545	5.5	1
7	Nonlinear Model Based Estimation of Rigid-Body Motion Via an Indirect Measurement of an Elastic Appendage 2007 ,		1
6	Bifurcations of a weighted-residual integral boundary-layer model for nonlinear dynamics of falling liquid films. <i>Journal of Physics: Conference Series</i> , 2007 , 64, 012007	0.3	1
5	Modeling and analysis of smart localized structural elements for nonlinear vibration control of a taut string 2002 , 4693, 407		1
4	Self-excited dynamics of an elastically restrained slender rigid body in uniform compressible laminar flow. <i>Nonlinear Dynamics</i> , 2016 , 86, 2207-2230	5	1
3	Nonlinear Dynamics and Control of the Scan Process in Noncontacting Atomic Force Microscopy 2005 , 571		
2	Nonlinear fluid-structure interaction of a restrained slender body of revolution at high angles of attack 2019 , 729-734		

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Nonlinear Dynamics and Orbital Instabilities of a Magnetic Resonance Force Microscope Operating in Ultra-High Vacuum. *IEICE Proceeding Series*, **2014**, 1, 360-362