Angelo Luongo

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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.

152 papers	3,719 citations	37 h-index	53 g-index
159 ext. papers	4,132 ext. citations	3.4 avg, IF	5.99 L-index

#	Paper	IF	Citations
152	Planar non-linear free vibrations of an elastic cable. *International Journal of Non-Linear Mechanics*, **1984**, 19, 39-52	2.8	156
151	Comparison of whole-body PET/CT and PET/MRI in breast cancer patients: lesion detection and quantitation of 18F-deoxyglucose uptake in lesions and in normal organ tissues. *European Journal of Radiology*, **2014**, 83, 289-96	4.7	103
150	Evaluation of Quantitative PET/MR Enterography Biomarkers for Discrimination of Inflammatory Strictures from Fibrotic Strictures in Crohn Disease. *Radiology*, **2016**, 278, 792-800	20.5	93
149	Analytical and numerical approaches to nonlinear galloping of internally resonant suspended cables. *Journal of Sound and Vibration*, **2008**, 315, 375-393	3.9	92
148	NON-LINEAR GALLOPING OF SAGGED CABLES IN 1:2 INTERNAL RESONANCE. *Journal of Sound and Vibration*, **1998**, 214, 915-940	3.9	83
147	Comparison of CE-FDG-PET/CT with CE-FDG-PET/MR in the evaluation of osseous metastases in breast cancer patients. *British Journal of Cancer*, **2015**, 112, 1452-60	8.7	80
146	Plane bias extension test for a continuum with two inextensible families of fibers: A variational treatment with Lagrange multipliers and a perturbation solution. *International Journal of Solids and Structures*, **2016**, 81, 1-12	3.1	79
145	On the effect of twist angle on nonlinear galloping of suspended cables. *Computers and Structures*, **2009**, 87, 1003-1014	4.5	76
144	Linear instability mechanisms for coupled translational galloping. *Journal of Sound and Vibration*, **2005**, 288, 1027-1047	3.9	76
143	Linear and non-linear interactions between static and dynamic bifurcations of damped planar beams. *International Journal of Non-Linear Mechanics*, **2007**, 42, 88-98	2.8	72
142	A complete dynamic approach to the Generalized Beam Theory cross-section analysis including extension and shear modes. *Mathematics and Mechanics of Solids*, **2014**, 19, 900-924	2.3	71
141	Dynamic analysis of externally excited NES-controlled systems via a mixed Multiple Scale/Harmonic Balance algorithm. *Nonlinear Dynamics*, **2012**, 70, 2049-2061	5	68
140	On Nonlinear Dynamics of Planar Shear Indeformable Beams. *Journal of Applied Mechanics, Transactions ASME*, **1986**, 53, 619-624	2.7	68
139	Aeroelastic instability analysis of NES-controlled systems via a mixed multiple scale/harmonic balance method. *JVC/Journal of Vibration and Control*, **2014**, 20, 1985-1998	2	62
138	Parametric, external and self-excitation of a tower under turbulent wind flow. *Journal of Sound and Vibration*, **2011**, 330, 3057-3069	3.9	60
137	Dynamic instability of inclined cables under combined wind flow and support motion. *Nonlinear Dynamics*, **2012**, 67, 71-87	5	57
136	A new approach for thin-walled member analysis in the framework of GBT. *Thin-Walled Structures*, **2011**, 49, 1404-1414	4.7	57

135	A linear curved-beam model for the analysis of galloping in suspended cables. *Journal of Mechanics of Materials and Structures*, **2007**, 2, 675-694	1.2	55
134	INVARIANT REPRESENTATION OF PROPAGATION PROPERTIES FOR BI-COUPLED PERIODIC STRUCTURES. *Journal of Sound and Vibration*, **2002**, 257, 869-886	3.9	54
133	A direct approach for the evaluation of the conventional modes within the GBT formulation. *Thin-Walled Structures*, **2014**, 74, 133-145	4.7	52
132	Multiple Timescales Analysis for 1:2 and 1:3 Resonant Hopf Bifurcations. *Nonlinear Dynamics*, **2003**, 34, 269-291	5	52
131	Nonlinear energy sink to control vibrations of an internally nonresonant elastic string. *Meccanica*, **2015**, 50, 781-794	2.1	51
130	Nonlinear energy sink to control elastic strings: the internal resonance case. *Nonlinear Dynamics*, **2015**, 81, 425-435	5	45
129	Dynamics of the pendulum with periodically varying length. *Physica D: Nonlinear Phenomena*, **2009**, 238, 1589-1597	3.3	45
128	Postcritical Behavior of Cables Undergoing Two Simultaneous Galloping Modes. *Meccanica*, **1998**, 33, 229-242	2.1	45
127	A Continuous Approach to the Aeroelastic Stability of Suspended Cables in 1 : 2 Internal Resonance. *JVC/Journal of Vibration and Control*, **2008**, 14, 135-157	2	45
126	Vibration reduction in piecewise bi-coupled periodic structures. *Journal of Sound and Vibration*, **2003**, 268, 601-615	3.9	45
125	Mode localization by structural imperfections in one-dimensional continuous systems. *Journal of Sound and Vibration*, **1992**, 155, 249-271	3.9	45
124	**2013**,		44
123	Flexural-torsional bifurcations of a cantilever beam under potential and circulatory forces I: Non-linear model and stability analysis. *International Journal of Non-Linear Mechanics*, **2006**, 41, 586-594	2.8	41
122	Asymmetric interactive buckling of thin-walled columns with initial imperfections. *Thin-Walled Structures*, **1987**, 5, 365-382	4.7	41
121	Perturbation Methods for Bifurcation Analysis from Multiple Nonresonant Complex Eigenvalues. *Nonlinear Dynamics*, **1997**, 14, 193-210	5	40
120	Bifurcation Equations Through Multiple-Scales Analysis for a Continuous Model of a Planar Beam. *Nonlinear Dynamics*, **2005**, 41, 171-190	5	40
119	Eigensolutions sensitivity for nonsymmetric matrices with repeated eigenvalues. *AIAA Journal*, **1993**, 31, 1321-1328	2.1	39
118	On the amplitude modulation and localization phenomena in interactive buckling problems. *International Journal of Solids and Structures*, **1991**, 27, 1943-1954	3.1	39

117	Monofrequent oscillations of a non-linear model of a suspended cable. *Journal of Sound and Vibration*, **1982**, 82, 247-259	3.9	39
116	Linear stability of piezoelectric-controlled discrete mechanical systems under nonconservative positional forces. *Meccanica*, **2015**, 50, 825-839	2.1	38
115	Double zero bifurcation of non-linear viscoelastic beams under conservative and non-conservative loads. *International Journal of Non-Linear Mechanics*, **2013**, 55, 128-139	2.8	37
114	Bifurcation and stability of a two-tower system under wind-induced parametric, external and self-excitation. *Journal of Sound and Vibration*, **2012**, 331, 365-383	3.9	36
113	One to one resonant double Hopf bifurcation in aeroelastic oscillators with tuned mass dampers. *Journal of Sound and Vibration*, **2003**, 262, 201-217	3.9	36
112	A shear-shear torsional beam model for nonlinear aeroelastic analysis of tower buildings. *Zeitschrift Fur Angewandte Mathematik Und Physik*, **2015**, 66, 1895-1913	1.6	35
111	Simple and double Hopf bifurcations in aeroelastic oscillators with tuned mass dampers. *Journal of the Franklin Institute*, **2001**, 338, 187-201	4	35
110	A non-linear model for the dynamics of open cross-section thin-walled beams-Part I: formulation. *International Journal of Non-Linear Mechanics*, **2003**, 38, 1067-1081	2.8	33
109	PET/MR in invasive ductal breast cancer: correlation between imaging markers and histological phenotype. *British Journal of Cancer*, **2017**, 116, 893-902	8.7	32
108	Real wave vectors for dynamic analysis of periodic structures. *Journal of Sound and Vibration*, **2005**, 279, 309-325	3.9	32
107	Equivalent nonlinear beam model for the 3-D analysis of shear-type buildings: Application to aeroelastic instability. *International Journal of Non-Linear Mechanics*, **2016**, 80, 52-65	2.8	31
106	On the effect of the local overall interaction on the postbuckling of uniformly compressed channels. *Thin-Walled Structures*, **1985**, 3, 293-321	4.7	31
105	On the destabilizing effect of damping on discrete and continuous circulatory systems. *Journal of Sound and Vibration*, **2014**, 333, 6723-6741	3.9	30
104	A perturbation method for evaluating nonlinear normal modes of a piecewise linear two-degrees-of-freedom system. *Nonlinear Dynamics*, **2008**, 54, 379-393	5	30
103	Eigensolutions of perturbed nearly defective matrices. *Journal of Sound and Vibration*, **1995**, 185, 377-395	3.9	30
102	Three-dimensional vibrations of tethered satellite systems. *Journal of Guidance, Control, and Dynamics*, **1991**, 14, 312-320	2.1	30
101	MULTIPLE SCALE ANALYSIS FOR DIVERGENCE-HOPF BIFURCATION OF IMPERFECT SYMMETRIC SYSTEMS. *Journal of Sound and Vibration*, **1998**, 218, 527-539	3.9	29
100	Multiscale analysis of defective multiple-Hopf bifurcations. *Computers and Structures*, **2004**, 82, 2705-2722	4.5	29

99	On the Reconstitution Problem in the Multiple Time-Scale Method. *Nonlinear Dynamics*, **1999**, 19, 135-158	3	29
98	Multiple interaction and localization phenomena in the postbuckling of compressed thin-walled members. *AIAA Journal*, **1988**, 26, 1395-1402	2.1	29
97	Divergence, Hopf and double-zero bifurcations of a nonlinear planar beam. *Computers and Structures*, **2006**, 84, 1596-1605	4.5	28
96	A damage constitutive model for sliding friction coupled to wear. *Continuum Mechanics and Thermodynamics*, **2013**, 25, 503-522	3.5	27
95	Free vibrations and sensitivity analysis of a defective two degree-of-freedom system. *AIAA Journal*, **1995**, 33, 120-127	2.1	25
94	Non-linear Free Periodic Oscillations Of A Tethered Satellite System. *Journal of Sound and Vibration* , **1994**, 175, 299-315	3.9	24
93	Equivalent Timoshenko linear beam model for the static and dynamic analysis of tower buildings. *Applied Mathematical Modelling*, **2019**, 71, 77-95	4.5	23
92	A non-linear one-dimensional model of cross-deformable tubular beam. *International Journal of Non-Linear Mechanics*, **2014**, 66, 33-42	2.8	20
91	A non-linear model for the dynamics of open cross-section thin-walled beams: Part II: forced motion. *International Journal of Non-Linear Mechanics*, **2003**, 38, 1083-1094	2.8	20
90	Nonlinear Tuned Mass Damper for self-excited oscillations. *Wind and Structures, an International Journal*, **2004**, 7, 251-264		20
89	Nonlinear hysteretic damping effects on the post-critical behaviour of the visco-elastic Beck's beam. *Mathematics and Mechanics of Solids*, **2017**, 22, 1347-1365	2.3	19
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85	Sensitivities and Linear Stability Analysis Around a Double-Zero Eigenvalue. *AIAA Journal*, **2000**, 38, 702-710	2.1	18
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83	Hard loss of stability of Ziegler's column with nonlinear damping. *Meccanica*, **2016**, 51, 2647-2663	2.1	18
82	On the failure of the "similar Piezoelectric Control" in preventing loss of stability by nonconservative positional forces. *Zeitschrift Fur Angewandte Mathematik Und Physik*, **2015**, 66, 1949-1968	1.6	17

81	A paradigmatic minimal system to explain the Ziegler paradox. *Continuum Mechanics and Thermodynamics*, **2015**, 27, 211-222	3.5	17
80	On the Proper Form of the Amplitude Modulation Equations for Resonant Systems. *Nonlinear Dynamics*, **2002**, 27, 237-254	5	17
79	Multiple-Timescale Analysis for Bifurcation from a Multiple-Zero Eigenvalue. *AIAA Journal*, **2003**, 41, 1143-1150	2.1	17
78	A revisitation of the paradox of discontinuous trajectory for a mass particle moving on a taut string. *Nonlinear Dynamics*, **2016**, 86, 2245-2260	5	17
77	Shear-shear-torsional homogenous beam models for nonlinear periodic beam-like structures. *Engineering Structures*, **2019**, 184, 115-133	4.7	16
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75	Vibrational stabilization of the upright statically unstable position of a double pendulum. *Journal of Sound and Vibration*, **2012**, 331, 457-469	3.9	16
74	A paradigmatic system to study the transition from zero/Hopf to double-zero/Hopf bifurcation. *Nonlinear Dynamics*, **2012**, 70, 111-124	5	16
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72	Flexural–torsional bifurcations of a cantilever beam under potential and circulatory forces II. Post-critical analysis. *International Journal of Non-Linear Mechanics*, **2006**, 41, 595-604	2.8	16
71	Perturbation methods for nonlinear autonomous discrete-time dynamical systems. *Nonlinear Dynamics*, **1996**, 10, 317-331	5	16
70	Nonlinear aeroelastic behavior of a base-isolated beam under steady wind flow. *International Journal of Non-Linear Mechanics*, **2020**, 119, 103340	2.8	16
69	On the use of the multiple scale method in solving difficult bifurcation problems. *Mathematics and Mechanics of Solids*, **2017**, 22, 988-1004	2.3	15
68	Nonlinear Generalized Beam Theory for open thin-walled members. *Mathematics and Mechanics of Solids*, **2017**, 22, 1907-1921	2.3	13
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66	Can a semi-simple eigenvalue admit fractional sensitivities?. *Applied Mathematics and Computation*, **2015**, 255, 165-178	2.7	11
65	The Brazier effect for elastic pipe beams with foam cores. *Thin-Walled Structures*, **2018**, 124, 72-80	4.7	11
64	Non-resonant non-planar free motions of inextensional non-compact beams. *Journal of Sound and Vibration*, **1989**, 134, 73-86	3.9	11

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62	Free and forced linear dynamics of a homogeneous model for beam-like structures. *Meccanica*, **2020**, 55, 907-925	2.1	10
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60	Piezoelectric control of Hopf bifurcations: A non-linear discrete case study. *International Journal of Non-Linear Mechanics*, **2016**, 80, 160-169	2.8	9
59	Stabilization via parametric excitation of multi-dof statically unstable systems. *Communications in Nonlinear Science and Numerical Simulation*, **2014**, 19, 3913-3926	3.7	9
58	Linear Stability Analysis of Multiparameter Dynamical Systems via a Numerical-Perturbation Approach. *AIAA Journal*, **2011**, 49, 2047-2056	2.1	9
57	Weakly nonlinear dynamics of taut strings traveled by a single moving force. *Meccanica*, **2017**, 52, 3087-3099	2.1	8
56	Dynamics of taut strings traveled by train of forces. *Continuum Mechanics and Thermodynamics*, **2016**, 28, 603-616	3.5	8
55	On the perturbation analysis of interactive buckling in nearly symmetric structures. *International Journal of Solids and Structures*, **1992**, 29, 721-733	3.1	8
54	Nonlinear Aeroelastic in-Plane Behavior of Suspension Bridges under Steady Wind Flow. *Applied Sciences (Switzerland)*, **2020**, 10, 1689	2.6	7
53	Improving the linear stability of the Beck?s beam by added dashpots. *International Journal of Mechanical Sciences*, **2016**, 110, 151-159	5.5	7
52	Statics of Shallow Inclined Elastic Cables under General Vertical Loads: A Perturbation Approach. *Mathematics*, **2018**, 6, 24	2.3	7
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50	Solution to the problem of Nicolai. *Journal of Sound and Vibration*, **2014**, 333, 1932-1944	3.9	7
49	Effects of damping on the stability of the compressed Nicolai beam. *Mathematics and Mechanics of Complex Systems*, **2015**, 3, 1-26	3.2	7
48	Controlling the Limit-Cycle of the Ziegler Column via a Tuned Piezoelectric Damper. *Mathematical Problems in Engineering*, **2015**, 2015, 1-9	1.1	7
47	A GBT Model for the Analysis of Composite Steel–Concrete Beams with Partial Shear Interaction. *Structures*, **2015**, 4, 27-37	3.4	7
46	Nonlinear viscoelastic analysis of a cylindrical balloon squeezed between two rigid moving plates. *International Journal of Solids and Structures*, **2013**, 50, 2213-2223	3.1	7

45	Dynamic Analysis of Linear and Nonlinear Oscillations of a Beam Under Axial and Transversal Random Poisson Pulses. *Nonlinear Dynamics*, **2004**, 36, 421-435	5	7
44	Interactive buckling of an elastically restrained truss structure. *Thin-Walled Structures*, **1994**, 19, 197-210	4.7	7
43	Multimodal galloping of dense spectra structures. *Journal of Wind Engineering and Industrial Aerodynamics*, **1993**, 48, 163-174	3.7	7
42	Shear Performance Assessment of Timber Log-House Walls under In-Plane Lateral Loads via Numerical and Analytical Modelling. *Buildings*, **2018**, 8, 99	3.2	7
41	A novel straightforward dynamic approach for the evaluation of extensional modes within GBT cross-section analysis. *Thin-Walled Structures*, **2017**, 114, 52-69	4.7	6
40	Nonstationary nonplanar free motions of an orbiting string with multiple internal resonances. *Meccanica*, **1996**, 31, 363-381	2.1	6
39	On large-amplitude vibrations of cables. *Journal of Sound and Vibration*, **1987**, 116, 573-575	3.9	6
38	Perturbation method for the dynamic analysis of a bistable oscillator under slow harmonic excitation. *Smart Structures and Systems*, **2016**, 18, 183-196		6
37	Buckling of tower buildings on elastic foundation under compressive tip forces and self-weight. *Continuum Mechanics and Thermodynamics*, **2020**, 1	3.5	6
36	A Continuum Approach to the Nonlinear In-Plane Galloping of Shallow Flexible Cables. *Advances in Mathematical Physics*, **2019**, 2019, 1-12	1.1	5
35	Dynamics of taut strings undergoing large changes of tension caused by a force-driven traveling mass. *Journal of Sound and Vibration*, **2019**, 458, 320-333	3.9	5
34	Dry galloping in inclined cables: linear stability analysis. *Procedia Engineering*, **2017**, 199, 3164-3169		5
33	Static and dynamic consistent perturbation analysis for nonlinear inextensible planar frames. *Computers and Structures*, **2013**, 123, 79-92	4.5	5
32	Nonlinear interaction between self- and parametrically excited wind-induced vibrations. *Nonlinear Dynamics*, **2021**, 103, 79-101	5	5
31	On the effect of mechanical non-linearities on vortex-induced lock-in vibrations. *Mathematics and Mechanics of Solids*, **2017**, 22, 1922-1935	2.3	4
30	Static Perturbation Analysis of Inclined Shallow Elastic Cables under general 3D-loads. *Curved and Layered Structures*, **2016**, 5, 250-259	1.9	4
29	Static and Dynamic Responses of Micro-Structured Beams. *Applied Sciences (Switzerland)*, **2020**, 10, 6836	2.6	4
28	Qualitative analysis of classes of motion for multiresonant systems I. An algebraic method. *Acta Mechanica*, **2005**, 174, 91-107	2.1	4

27	Bifurcations and stability of amplitude modulated planar oscillations of an orbiting string with internal resonances. *Nonlinear Dynamics*, **1996**, 9, 305-325	5	4
26	Linear and Nonlinear Damping Effects on the Stability of the Ziegler Column. *Springer Proceedings in Physics*, **2015**, 335-352	0.2	3
25	Nonlinear elastic analysis of steel planar frames under fire loads. *Computers and Structures*, **2015**, 150, 23-33	4.5	3
24	Qualitative analysis of classes of motion for multiresonant systems II. A geometrical method. *Acta Mechanica*, **2005**, 174, 109-124	2.1	3
23	Modeling the linear dynamics of continuous viscoelastic systems on their infinite-dimensional central subspace. *Mathematics and Mechanics of Complex Systems*, **2020**, 8, 127-151	3.2	3
22	On the effect of damping on the stabilization of mechanical systems via parametric excitation. *Zeitschrift Fur Angewandte Mathematik Und Physik*, **2016**, 67, 1	1.6	3
21	Shear and flexural factors for static analysis of homogenized beam models of planar frames. *Engineering Structures*, **2021**, 228, 111440	4.7	3
20	On the nonlinear effects of the mean wind force on the galloping onset in shallow cables. *Nonlinear Dynamics*, **2021**, 103, 3127-3148	5	3
19	Flexural-Torsional Flutter and Buckling of Braced Foil Beams under a Follower Force. *Mathematical Problems in Engineering*, **2017**, 2017, 1-10	1.1	2
18	Postcritical behavior of a discrete Nicolai column. *Nonlinear Dynamics*, **2016**, 86, 2231-2243	5	2
17	Semi-analytical approaches for the nonlinear dynamics of a taut string subject to a moving load. *Nonlinear Dynamics*, **2019**, 98, 2463-2474	5	2
16	Invariant subspace reduction for linear dynamic analysis of finite-dimensional viscoelastic structures. *Meccanica*, **2017**, 52, 3061-3085	2.1	2
15	Advances in stability, bifurcations and nonlinear vibrations in mechanical systems. *Nonlinear Dynamics*, **2021**, 103, 2993-2995	5	2
14	A Minimal GBT Model for Distortional-Twist Elastic Analysis of Box-Girder Bridges. *Applied Sciences (Switzerland)*, **2021**, 11, 2501	2.6	2
13	Nonlinear Dynamics of an Internally Resonant Base-Isolated Beam under Turbulent Wind Flow. *Applied Sciences (Switzerland)*, **2021**, 11, 3213	2.6	2
12	Static Response of Double-Layered Pipes via a Perturbation Approach. *Applied Sciences (Switzerland)*, **2021**, 11, 886	2.6	2
11	On the Use of the Multiple Scale Harmonic Balance Method for Nonlinear Energy Sinks Controlled Systems. *Springer Proceedings in Physics*, **2015**, 235-260	0.2	1
10	Nonlinear dynamics, identification and monitoring of structures: a special issue dedicated to the memory of Francesco Benedettini. *Meccanica*, **2016**, 51, 2535-2540	2.1	1

9	Nonlinear dynamics of a base-isolated beam under turbulent wind flow. *Nonlinear Dynamics*,1	5	1
8	Dynamic response to transverse loading of a single-layered tubular beam via a perturbation approach. *International Journal of Non-Linear Mechanics*, **2021**, 137, 103822	2.8	1
7	A paradigmatic system for non-classic interactive buckling. *International Journal of Non-Linear Mechanics*, **2021**, 134, 103735	2.8	1
6	Discussion of Free Vibration of Parabolic Cables by Anestis S. Veletsos and George R. Darbre (February, 1983). *Journal of Structural Engineering*, **1984**, 110, 1430-1431	3	0
5	Stick-slip and wear phenomena at the contact interface between an elastic beam and a rigid substrate. *Mathematics and Mechanics of Solids*, **2021**, 26, 843-860	2.3	0
4	Statics, Dynamics, Buckling and Aeroelastic Stability of Planar Cellular Beams **2021**, 143-165		
3	Solution to the Problem of a Mass Traveling on a Taut String via Integral Equation. *Advances in Mathematical Physics*, **2019**, 2019, 1-9	1.1	
2	Preface to the special issue NODYCON 2019 *Nonlinear Dynamics*, **2019**, 98, 2427-2434	5	
1	Dynamics and Stability: From an Ancillary to a Leading Role in the History of AIMETA **2022**, 179-193		