Ilinca Stanciulescu

List of Publications by Year
in descending order

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52	864	516561 16	526166 27
papers	citations	h-index	g-index

52	52	52	711
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Simulation of tyreâ€“pavement interaction for predicting contact stresses at static and various rolling conditions. International Journal of Pavement Engineering, 2012, 13, 310-321.	2.2	110
2	Effect of Surface Friction on Tireâ€“Pavement Contact Stresses during Vehicle Maneuvering. Journal of Engineering Mechanics - ASCE, 2014, 140, .	1.6	67
3	Nonlinear elastic buckling and postbuckling analysis of cylindrical panels. Finite Elements in Analysis and Design, 2015, 96, 41-50.	1.7	61
4	A robust composite time integration scheme for snap-through problems. Computational Mechanics, 2015, 55, 1041-1056.	2.2	45
5	A lower bound on snap-through instability of curved beams under thermomechanical loads. International Journal of Non-Linear Mechanics, 2012, 47, 561-575.	1.4	34
6	Engineering biologically extensible hydrogels using photolithographic printing. Acta Biomaterialia, 2018, 75, 52-62.	4.1	31
7	Equilibria and stability boundaries of shallow arches under static loading in a thermal environment. International Journal of Non-Linear Mechanics, 2013, 51, 132-144.	1.4	30
8	Nonlinear normal modes of a shallow arch with elastic constraints for two-to-one internal resonances. Nonlinear Dynamics, 2016, 83, 1577-1600.	2.7	29
9	A numerical investigation of snap-through in a shallow arch-like model. Journal of Sound and Vibration, 2013, 332, 2532-2548.	2.1	26
10	Characterizing dynamic transitions associated with snap-through of clamped shallow arches. Journal of Sound and Vibration, 2013, 332, 5837-5855.	2.1	24
11	Multiscale homogenization method for the prediction of elastic properties of fiber-reinforced composites. International Journal of Solids and Structures, 2020, 203, 249-263.	1.3	24
12	Bioinspired Engineering of Poly(ethylene glycol) Hydrogels and Natural Protein Fibers for Layered Heart Valve Constructs. ACS Applied Materials & Interfaces, 2017, 9, 16524-16535.	4.0	23
13	Can complex systems really be simulated?. Applied Mathematics and Computation, 2014, 227, 199-211.	1.4	20
14	Non-linear stability and remote unconnected equilibria of shallow arches with asymmetric geometric imperfections. International Journal of Non-Linear Mechanics, 2015, 77, 1-11.	1.4	18
15	Relationship between Euler buckling and unstable equilibria of buckled beams. International Journal of Non-Linear Mechanics, 2017, 95, 151-161.	1.4	18
16	A GPUâ€based preconditioned Newtonâ€Krylov solver for flexible multibody dynamics. International Journal for Numerical Methods in Engineering, 2015, 102, 1585-1604.	1.5	17
17	An algorithm for incorporation of frictional sliding conditions within a steady state rolling framework. Communications in Numerical Methods in Engineering, 2005, 22, 301-318.	1.3	16
18	Numerical investigation of the influence of pattern topology on the mechanical behavior of PEGDA hydrogels. Acta Biomaterialia, 2017, 49, 247-259.	4.1	15

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19	Fully coupled thermo-mechanical cohesive zone model with thermal softening: Application to nanocomposites. International Journal of Solids and Structures, 2020, 188-189, 1-11.	1.3	15
20	Inverse computation of cohesive fracture properties from displacement fields. Inverse Problems in Science and Engineering, 2010, 18, 1103-1128.	1.2	14
21	A co-simulation environment for high-fidelity virtual prototyping of vehicle systems. International Journal of Vehicle Systems Modelling and Testing, 2012, 7, 54.	0.1	14
22	Numerical pathologies in snap-through simulations. Engineering Structures, 2012, 34, 495-504.	2.6	14
23	Numerical simulation of fibrous biomaterials with randomly distributed fiber network structure. Biomechanics and Modeling in Mechanobiology, 2016, 15, 817-830.	1.4	14
24	Modeling and vibratory characteristics of a mass-carrying cable system with multiple pulley supports in span range. Applied Mathematical Modelling, 2017, 49, 59-68.	2.2	13
25	Vibration and Large Deflection of Cantilevered Elastica Compressed by Angled Cable. AIAA Journal, 2006, 44, 1468-1476.	1.5	12
26	Nonlinear Buckling and Postbuckling of Shallow Arches With Vertical Elastic Supports. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	1.1	12
27	Slender Solar Sail Booms: Finite Element Analysis. Journal of Spacecraft and Rockets, 2007, 44, 528-537.	1.3	11
28	Efficient Parallel Simulation of Large Flexible Body Systems With Multiple Contacts. Journal of Computational and Nonlinear Dynamics, 2013, 8, .	0.7	11
29	The Running-in Micro-Mechanism and Efficient Work Conditions of Cu-Based Friction Material against 65Mn Steel. Experimental Techniques, 2019, 43, 667-676.	0.9	11
30	Shear-lag analysis of capped carbon nanotube reinforced composites with interface damage. Composite Structures, 2020, 242, 112107.	3.1	10
31	On Snap-Through Buckling. , 2011, , .		9
32	A Co-Simulation Framework for Full Vehicle Analysis. , 0, , .		8
33	Computational modeling of the arterial wall based on layer-specific histological data. Biomechanics and Modeling in Mechanobiology, 2016, 15, 1479-1494.	1.4	8
34	Systematic construction of higher order bases for the finite element analysis of multiscale elliptic problems. Mechanics Research Communications, 2013, 52, 11-18.	1.0	7
35	Inconsistent Stability of Newmark's Method in Structural Dynamics Applications. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	0.7	7
36	Fast approximations of dynamic stability boundaries of slender curved structures. International Journal of Non-Linear Mechanics, 2017, 95, 47-58.	1.4	7

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37	Monolithic and Staggered Strategies Using Solid-Shell Formulations for Nonlinear Coupled Thermoelasticity. Journal of Engineering Mechanics - ASCE, 2019, 145, .	1.6	7
38	On the interaction of frictional formulations with bifurcation phenomena in hyperelastic steady state rolling calculations. International Journal of Solids and Structures, 2006, 43, 2959-2988.	1.3	6
39	Direct calculation of critical points in parameter sensitive systems. Computers and Structures, 2013, 117, 34-47.	2.4	6
40	Efficient analysis of shear wall-frame structural systems. Engineering Computations, 2019, 36, 2084-2110.	0.7	6
41	Analytical and numerical studies on the slope inertia-based Timoshenko beam. Journal of Sound and Vibration, 2020, 473, 115227.	2.1	6
42	An energyâ€“momentum conserving scheme for geometrically exact shells with drilling DOFs. Computational Mechanics, 2021, 67, 341-364.	2.2	6
43	A Parallel GPU Implementation of the Absolute Nodal Coordinate Formulation With a Frictional/Contact Model for the Simulation of Large Flexible Body Systems. , 2011, , .		5
44	Through-bolt push out effects on the behavior of hybrid masonry systems. Engineering Structures, 2015, 97, 47-53.	2.6	5
45	A note on the volumetric-deviatoric split on the anisotropic constitutive model for fiber-reinforced materials. Biomedical Engineering International, 2019, 1, 16-24.	0.5	3
46	Boundaries of Snap-Through Buckling of Curved Beams. , 2011, , .		2
47	Systematic Calibration of Model Parameters Based on Large-Scale Experiments on Hybrid Masonry Walls. Journal of Structural Engineering, 2016, 142, .	1.7	2
48	A general condition for the existence of unconnected equilibria for symmetric arches. International Journal of Non-Linear Mechanics, 2018, 99, 144-153.	1.4	2
49	Experimental investigation of friction disc temperature field under cooling fluid. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 3377-3388.	1.1	2
50	Computational modeling of surface phenomena in soft-wet materials. International Journal of Solids and Structures, 2009, 46, 1334-1344.	1.3	1
51	Stability Analysis of Curved Panels. Conference Proceedings of the Society for Experimental Mechanics, 2016, , 259-266.	0.3	0
52	On Euler Buckling and Snap-Through. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 171-174.	0.3	0