

Loc Vu-Quoc

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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.

80
papers

4,407
citations

29
h-index

66
g-index

84
ext. papers

4,838
ext. citations

3.4
avg, IF

5.39
L-index

#	Paper	IF	Citations
80	A three-dimensional finite-strain rod model. part II: Computational aspects. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1986 , 58, 79-116	5.7	836
79	On the dynamics in space of rods undergoing large motions [A geometrically exact approach. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1988 , 66, 125-161	5.7	457
78	On the Dynamics of Flexible Beams Under Large Overall Motions[The Plane Case: Part I. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1986 , 53, 849-854	2.7	312
77	A Geometrically-exact rod model incorporating shear and torsion-warping deformation. <i>International Journal of Solids and Structures</i> , 1991 , 27, 371-393	3.1	230
76	Optimal solid shells for non-linear analyses of multilayer composites. I. Statics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003 , 192, 975-1016	5.7	202
75	Finite Difference Calculus Invariant Structure of a Class of Algorithms for the Nonlinear Klein-Gordon Equation. <i>SIAM Journal on Numerical Analysis</i> , 1995 , 32, 1839-1875	2.4	179
74	The role of non-linear theories in transient dynamic analysis of flexible structures. <i>Journal of Sound and Vibration</i> , 1987 , 119, 487-508	3.9	156
73	On the Dynamics of Flexible Beams Under Large Overall Motions[The Plane Case: Part II. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1986 , 53, 855-863	2.7	135
72	A 3-D discrete-element method for dry granular flows of ellipsoidal particles. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 187, 483-528	5.7	128
71	A Normal Force-Displacement Model for Contacting Spheres Accounting for Plastic Deformation: Force-Driven Formulation. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2000 , 67, 363-371	2.7	121
70	An elastoplastic contact force-displacement model in the normal direction: displacement-driven version. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1999 , 455, 4013-4044	2.4	113
69	Modeling the dependence of the coefficient of restitution on the impact velocity in elasto-plastic collisions. <i>International Journal of Impact Engineering</i> , 2002 , 27, 317-341	4	111
68	An accurate and efficient tangential force-displacement model for elastic frictional contact in particle-flow simulations. <i>Mechanics of Materials</i> , 1999 , 31, 235-269	3.3	93
67	Normal and tangential force-displacement relations for frictional elasto-plastic contact of spheres. <i>International Journal of Solids and Structures</i> , 2001 , 38, 6455-6489	3.1	91
66	A rational formulation of thermal circuit models for electrothermal simulation. I. Finite element method [power electronic systems]. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1996 , 43, 721-732		78
65	Optimal solid shells for non-linear analyses of multilayer composites. II. Dynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003 , 192, 1017-1059	5.7	65
64	Dynamics of sliding geometrically-exact beams: large angle maneuver and parametric resonance. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1995 , 120, 65-118	5.7	54

63	Optimal solid shell element for large deformable composite structures with piezoelectric layers and active vibration control. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 64, 1981-2013	2.4	52
62	Dynamics of earth-orbiting flexible satellites with multibody components. <i>Journal of Guidance, Control, and Dynamics</i> , 1987 , 10, 549-558	2.1	51
61	Efficient and accurate multilayer solid-shell element: non-linear materials at finite strain. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 63, 2124-2170	2.4	49
60	An accurate tangential force-displacement model for granular-flow simulations: Contacting spheres with plastic deformation, force-driven formulation. <i>Journal of Computational Physics</i> , 2004 , 196, 298-326	4.1	44
59	Simulation of chute flow of soybeans using an improved tangential force-displacement model. <i>Mechanics of Materials</i> , 2000 , 32, 115-129	3.3	43
58	Invariant-conserving finite difference algorithms for the nonlinear Klein-Gordon equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1993 , 107, 341-391	5.7	41
57	Geometrically-exact sandwich shells: The static case. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 189, 167-203	5.7	39
56	Efficient Hybrid-EAS solid element for accurate stress prediction in thick laminated beams, plates, and shells. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013 , 253, 337-355	5.7	38
55	Geometrically exact sandwich shells: The dynamic case. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001 , 190, 2825-2873	5.7	35
54	An accurate elasto-plastic frictional tangential force-displacement model for granular-flow simulations: Displacement-driven formulation. <i>Journal of Computational Physics</i> , 2007 , 225, 730-752	4.1	33
53	A rational formulation of thermal circuit models for electrothermal simulation. II. Model reduction techniques [power electronic systems]. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1996 , 43, 733-744		30
52	A class of simple and efficient degenerated shell elements. Analysis of global spurious-mode filtering. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1989 , 74, 117-175	5.7	29
51	Efficient and Accurate Collision Detection for Granular Flow Simulation. <i>Graphical Models</i> , 1998 , 60, 403-422		28
50	A static hysteresis model for power ferrites. <i>IEEE Transactions on Power Electronics</i> , 2002 , 17, 453-460	7.2	27
49	A computational procedure for interaction of high-speed vehicles on flexible structures without assuming known vehicle nominal motion. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1989 , 76, 207-244	5.7	26
48	SOYBEAN IMPACTS: EXPERIMENTS AND DYNAMIC SIMULATIONS. <i>Transactions of the American Society of Agricultural Engineers</i> , 1997 , 40, 789-794		25
47	Efficient evaluation of the flexibility of tapered I-beams accounting for shear deformations. <i>International Journal for Numerical Methods in Engineering</i> , 1992 , 33, 553-566	2.4	23
46	A method to extract the mechanical properties of particles in collision based on a new elasto-plastic normal force-displacement model. <i>Mechanics of Materials</i> , 2002 , 34, 779-794	3.3	22

45	A 9-node co-rotational quadrilateral shell element. <i>Computational Mechanics</i> , 2008 , 42, 873-884	4	21
44	Analysis of Power Magnetic Components With Nonlinear Static Hysteresis: Proper Orthogonal Decomposition and Model Reduction. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 1888-1897	2	20
43	Galerkin Projection for Geometrically Exact Sandwich Beams Allowing for Ply Drop-off. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1995 , 62, 479-488	2.7	20
42	Multiple-time-scale analysis of nonlinear modes in ferroelectric LiNbO ₃ . <i>Physical Review B</i> , 2010 , 81,	3.3	18
41	An efficient co-rotational formulation for curved triangular shell element. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 72, 1029-1062	2.4	18
40	Multilayer shells: Geometrically-exact formulation of equations of motion. <i>International Journal of Solids and Structures</i> , 2000 , 37, 6705-6737	3.1	17
39	On the numerical modeling of sliding beams: A comparison of different approaches. <i>Journal of Sound and Vibration</i> , 2017 , 408, 270-290	3.9	15
38	Dynamic Formulation for Geometrically Exact Sandwich Beams and One-Dimensional Plates. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1995 , 62, 756-763	2.7	15
37	Formulation of a Basic Building Block Model for Interaction of High Speed Vehicles on Flexible Structures. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1989 , 56, 451-458	2.7	15
36	Dynamics of geometrically-exact sandwich beams/1-D plates: computational aspects. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1997 , 146, 135-172	5.7	14
35	A perturbation method for dynamic analyses using under-integrated shell elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1990 , 79, 129-172	5.7	14
34	A four-node corotational quadrilateral elastoplastic shell element using vectorial rotational variables. <i>International Journal for Numerical Methods in Engineering</i> , 2013 , 95, 181-211	2.4	13
33	On the vein-stiffening membrane structure of a dragonfly hind wing. <i>Journal of Zhejiang University: Science A</i> , 2009 , 10, 72-81	2.1	12
32	Singularity analysis and fracture energy-release rate for composites: Piecewise homogeneous-anisotropic materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 195, 5162-5197	5.7	12
31	On a highly robust spurious-mode filtering method for uniformly reduced-integrated shell elements. <i>International Journal for Numerical Methods in Engineering</i> , 1992 , 34, 209-220	2.4	12
30	A stabilized co-rotational curved quadrilateral composite shell element. <i>International Journal for Numerical Methods in Engineering</i> , 2011 , 86, 975-999	2.4	11
29	Dynamic formulation for geometrically-exact sandwich shells. <i>International Journal of Solids and Structures</i> , 1997 , 34, 2517-2548	3.1	11
28	. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2004 , 23, 1209-1219	2.5	11

27	General Multilayer Geometrically-Exact Beams/1-D Plates with Deformable Layer Thickness: Equations of Motion. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2000 , 80, 113-135	1	11
26	A nine-node corotational curved quadrilateral shell element for smooth, folded, and multishell structures. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 116, 570-600	2.4	10
25	A behavioral model for frequency-dependent hysteresis in power ferrites. <i>IEEE Transactions on Magnetics</i> , 2004 , 40, 1784-1790	2	10
24	Analysis of power magnetic components with nonlinear static hysteresis: finite-element formulation. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2243-2256	2	9
23	General sliding-beam formulation: A non-material description for analysis of sliding structures and axially moving beams. <i>Journal of Sound and Vibration</i> , 2020 , 480, 115341	3.9	8
22	Accurate phenomenological models for all four phases of BaTiO ₃ via semi-infinite optimization. <i>Ferroelectrics</i> , 1995 , 163, 29-57	0.6	8
21	Multilayer beams: A geometrically exact formulation. <i>Journal of Nonlinear Science</i> , 1996 , 6, 239-270	2.8	8
20	High-Speed Vehicle Models Based on a New Concept of Vehicle/Structure Interaction Component: Part I Formulation. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1993 , 115, 140-147	1.6	8
19	A 6-node co-rotational triangular elasto-plastic shell element. <i>Computational Mechanics</i> , 2015 , 55, 837-859	4.1	7
18	Finite element analysis of advanced multilayer capacitors. <i>International Journal for Numerical Methods in Engineering</i> , 2003 , 58, 397-461	2.4	7
17	On the physical meaning of the dynamical equations governing geometrically-exact multilayer shells. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2005 , 194, 2363-2384	5.7	7
16	Dynamics of geometrically exact sandwich structures. <i>International Journal of Mechanical Sciences</i> , 1998 , 40, 421-441	5.5	6
15	New predictor/corrector algorithms with improved energy balance for a recent formulation of dynamic vehicle/structure interaction. <i>International Journal for Numerical Methods in Engineering</i> , 1991 , 32, 223-253	2.4	6
14	A generalized Characteristic-Based Split projection method for Navier-Stokes with real fluids. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 124, 1045-1058	4.9	5
13	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2004 , 40, 1100-1105	3.7	4
12	A Generalized Unit System for Concise Electromagnetic Formulation and Accurate Numerical Solutions. <i>Journal of Computational Physics</i> , 2002 , 181, 407-429	4.1	4
11	High-Speed Vehicle Models Based on a New Concept of Vehicle/Structure Interaction Component: Part II Algorithmic Treatment and Results for Multispan Guideways. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1993 , 115, 148-155	1.6	4
10	A co-rotational triangular finite element for large deformation analysis of smooth, folded and multi-shells. <i>Acta Mechanica</i> , 2021 , 232, 1515-1542	2.1	4

9	A 4-Node Co-Rotational Quadrilateral Composite Shell Element. <i>International Journal of Structural Stability and Dynamics</i> , 2016 , 16, 1550053	1.9	3
8	Thermal behavior of a dynamic domain-wall motion model for hysteresis in power ferrites. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 140-143	2	3
7	. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 1994 , 1, 196-212	2.3	3
6	Automatic node resequencing with constraints. <i>Computers and Structures</i> , 1984 , 18, 55-69	4.5	3
5	Effective parameters for toroidal cores based on nonlinear magnetization. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2432-2435	2	2
4	Unintended impact of author impact factor. <i>Physics Today</i> , 2006 , 59, 16-16	0.9	1
3	Semi-infinite optimization formulation to obtain accurate phenomenological models for all phases of ferroelectric-ferroelastic crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1996 , 43, 176-190	3.2	1
2	Publish-or-Perish Postscripts. <i>Physics Today</i> , 2005 , 58, 14-14	0.9	
1	Nonlinear numerical dissipative elastodynamics of an optimal solid shell element 2003 , 678-682		