

Cheng Liu

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,020
citations

567281

15
h-index

610901

24
g-index

26
all docs

26
docs citations

26
times ranked

413
citing authors

#	ARTICLE	IF	CITATIONS
1	A new model for dry and lubricated cylindrical joints with clearance in spatial flexible multibody systems. <i>Nonlinear Dynamics</i> , 2011, 64, 25-47.	5.2	180
2	Dynamics of a large scale rigid-flexible multibody system composed of composite laminated plates. <i>Multibody System Dynamics</i> , 2011, 26, 283-305.	2.7	134
3	ElastoHydroDynamic lubricated cylindrical joints for rigid-flexible multibody dynamics. <i>Computers and Structures</i> , 2013, 114-115, 106-120.	4.4	124
4	Dynamics and control of a spatial rigid-flexible multibody system with multiple cylindrical clearance joints. <i>Mechanism and Machine Theory</i> , 2012, 52, 106-129.	4.5	104
5	New spatial curved beam and cylindrical shell elements of gradient-deficient Absolute Nodal Coordinate Formulation. <i>Nonlinear Dynamics</i> , 2012, 70, 1903-1918.	5.2	72
6	Dynamic analysis of membrane systems undergoing overall motions, large deformations and wrinkles via thin shell elements of ANCF. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 258, 81-95.	6.6	71
7	Nonlinear static and dynamic analysis of hyper-elastic thin shells via the absolute nodal coordinate formulation. <i>Nonlinear Dynamics</i> , 2016, 85, 949-971.	5.2	37
8	Dynamics of a Deployable Mesh Reflector of Satellite Antenna: Form-Finding and Modal Analysis. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	1.2	36
9	Dynamics of a Deployable Mesh Reflector of Satellite Antenna: Parallel Computation and Deployment Simulation1. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	1.2	33
10	Model order reduction for dynamic simulation of a flexible multibody system via absolute nodal coordinate formulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 324, 573-594.	6.6	30
11	Simple formulations of imposing moments and evaluating joint reaction forces for rigid-flexible multibody systems. <i>Nonlinear Dynamics</i> , 2012, 69, 127-147.	5.2	27
12	An efficient model reduction method for buckling analyses of thin shells based on IGA. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 309, 243-268.	6.6	26
13	Three new triangular shell elements of ANCF represented by BÄzier triangles. <i>Multibody System Dynamics</i> , 2015, 35, 321-351.	2.7	24
14	Geometrically exact thin-walled beam including warping formulated on the special Euclidean group S^3 . <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 369, 113062.	6.6	21
15	Viscoelastic analysis of bistable composite shells via absolute nodal coordinate formulation. <i>Composite Structures</i> , 2020, 248, 112537.	5.8	19
16	Dynamic computation of 2D segment-to-segment frictionless contact for a flexible multibody system subject to large deformation. <i>Mechanism and Machine Theory</i> , 2019, 140, 350-376.	4.5	14
17	Component-level proper orthogonal decomposition for flexible multibody systems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 361, 112690.	6.6	13
18	Dynamic computation of a tether-net system capturing a space target via discrete elastic rods and an energy-conserving integrator. <i>Acta Astronautica</i> , 2021, 186, 118-134.	3.2	12

#	ARTICLE	IF	CITATIONS
19	Computational dynamics of soft machines. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 516-528.	3.4	11
20	Dynamic computation of 2D segment-to-segment frictional contact for a flexible multibody system subject to large deformations. Mechanism and Machine Theory, 2021, 158, 104197.	4.5	10
21	Analysis of elasto-plastic thin-shell structures using layered plastic modeling and absolute nodal coordinate formulation. Nonlinear Dynamics, 2021, 105, 2899-2920.	5.2	7
22	Soft Machines: Challenges to Computational Dynamics. Procedia IUTAM, 2017, 20, 10-17.	1.2	6
23	Dynamic Analysis of Spatial Truss Structures Including Sliding Joint Based on the Geometrically Exact Beam Theory and Isogeometric Analysis. Applied Sciences (Switzerland), 2020, 10, 1231.	2.5	5
24	Geometrically exact shell with drilling rotations formulated on the special Euclidean group $SE(3)$. International Journal for Numerical Methods in Engineering, 2021, 122, 4886-4921.	2.8	2
25	Continuum damage dynamics of a large-scale flexible multibody system comprised of composite beams. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 0, , 146441932110631.	0.8	2