Marko K Matikainen

List of Publications by Year
in descending order

24	535	686830 13	676716 22
papers	citations	h-index	g-index

24	24	24	245
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A geometrically exact beam element based onÂtheÂabsolute nodal coordinate formulation. Multibody System Dynamics, 2008, 20, 359-384.	1.7	104
2	Analysis of Stress and Strain in the Absolute Nodal Coordinate Formulation. Mechanics Based Design of Structures and Machines, 2006, 34, 409-430.	3.4	50
3	Development of Elastic Forces for a Large Deformation Plate Element Based on the Absolute Nodal Coordinate Formulation. Journal of Computational and Nonlinear Dynamics, 2006, 1, 103-108.	0.7	47
4	Comparison of the absolute nodal coordinate and geometrically exact formulations for beams. Multibody System Dynamics, 2014, 32, 67-85.	1.7	47
5	Higher-order beam elements based on the absolute nodal coordinate formulation for three-dimensional elasticity. Nonlinear Dynamics, 2017, 88, 1075-1091.	2.7	38
6	A study of moderately thick quadrilateral plate elements based on the absolute nodal coordinate formulation. Multibody System Dynamics, 2014, 31, 309-338.	1.7	36
7	A finite element for soft tissue deformation based on the absolute nodal coordinate formulation. Acta Mechanica, 2020, 231, 1519-1538.	1.1	26
8	Inertia forces and shape integrals in the floating frame of reference formulation. Nonlinear Dynamics, 2017, 88, 1953-1968.	2.7	22
9	Experimental validation of flexible multibody dynamics beam formulations. Multibody System Dynamics, 2015, 34, 373-389.	1.7	21
10	A Fibre-Reinforced Poroviscoelastic Model Accurately Describes the Biomechanical Behaviour of the Rat Achilles Tendon. PLoS ONE, 2015, 10, e0126869.	1.1	20
11	Dynamic analysis of rotating shafts using the absolute nodal coordinate formulation. Journal of Sound and Vibration, 2019, 453, 214-236.	2.1	19
12	Usability of finite elements based on the absolute nodal coordinate formulation for deformation analysis of the Achilles tendon. International Journal of Non-Linear Mechanics, 2021, 129, 103662.	1.4	18
13	A study of contact methods in the application of large deformation dynamics in self-contact beam. Nonlinear Dynamics, 2021, 103, 581-616.	2.7	18
14	Estimating the Characteristic Curve of a Directional Control Valve in a Combined Multibody and Hydraulic System Using an Augmented Discrete Extended Kalman Filter. Sensors, 2021, 21, 5029.	2.1	14
15	Performance review of locking alleviation methods for continuum ANCF beam elements. Nonlinear Dynamics, 2022, 109, 531-546.	2.7	12
16	Analysis of high-order quadrilateral plate elements based on the absolute nodal coordinate formulation for three-dimensional elasticity. Advances in Mechanical Engineering, 2017, 9, 168781401770506.	0.8	11
17	Inclusion of Transverse Shear Deformation in a Beam Element Based on the Absolute Nodal Coordinate Formulation. Journal of Computational and Nonlinear Dynamics, 2009, 4, .	0.7	8
18	An Overview of Higher-Order Beam Elements Based on the Absolute Nodal Coordinate Formulation. Journal of Computational and Nonlinear Dynamics, 2022, 17, .	0.7	7

#	Article	IF	Citations
19	A Planar Beam Finite-Element Formulation With Individually Interpolated Shear Deformation. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	5
20	Comparison of numerical and computational aspects between two constraint-based contact methods in the description of wheel/rail contacts. Multibody System Dynamics, 2022, 54, 303-344.	1.7	4
21	Cone complementarity approach for dynamic analysis of multiple pendulums. Advances in Mechanical Engineering, 2019, 11, 168781401985674.	0.8	2
22	Procedure for non-smooth contact for planar flexible beams with cone complementarity problem. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2021, 235, 179-196.	0.5	2
23	Analysis of electromechanical systems based on the absolute nodal coordinate formulation. Acta Mechanica, 2022, 233, 1019-1030.	1.1	2
24	Numerical analysis of the magnetic shape memory effect based on the absolute nodal coordinate formulation. Acta Mechanica, 0, , 1.	1.1	2