

Tod A Laursen

List of Publications by Year in descending order

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43
papers

3,682
citations

257101

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360668

35
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46
all docs

46
docs citations

46
times ranked

2450
citing authors

#	ARTICLE	IF	CITATIONS
1	A Strong Form Meshfree Collocation Method: Engineering Applications Including Frictional Contact. , 2022, , 257-265.		0
2	A strong form meshfree collocation method for frictional contact on a rigid obstacle. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112597.	3.4	18
3	Toward robust and accurate contact solvers for large deformation applications: a remapping/adaptivity framework for mortar-based methods. Computational Mechanics, 2014, 54, 53-70.	2.2	3
4	Mortar contact formulations for deformableâ€“deformable contact: Past contributions and new extensions for enriched and embedded interface formulations. Computer Methods in Applied Mechanics and Engineering, 2012, 205-208, 3-15.	3.4	52
5	A Nitsche embedded mesh method. Computational Mechanics, 2012, 49, 243-257.	2.2	68
6	A new method for simulating rigid body motion in incompressible twoâ€“phase flow. International Journal for Numerical Methods in Fluids, 2011, 67, 713-732.	0.9	21
7	New Applications of Mortar Methodology to Extended and Embedded Finite Element Formulations. , 2011, , 1-8.		0
8	On methods for stabilizing constraints over enriched interfaces in elasticity. International Journal for Numerical Methods in Engineering, 2009, 78, 1009-1036.	1.5	58
9	A mortar-finite element approach to lubricated contact problems. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 3656-3669.	3.4	26
10	Compensation of overlay errors due to mask bending and non-flatness for EUV masks. Proceedings of SPIE, 2009, , .	0.8	6
11	The Melosh Competition. Finite Elements in Analysis and Design, 2008, 44, 227.	1.7	0
12	Frictional contact mechanics methods for soft materials: Application to tracking breast cancers. Journal of Biomechanics, 2008, 41, 69-77.	0.9	20
13	A segment-to-segment mortar contact method for quadratic elements and large deformations. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 555-566.	3.4	110
14	A large deformation mortar formulation of self contact with finite sliding. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 756-772.	3.4	36
15	Slender Solar Sail Booms: Finite Element Analysis. Journal of Spacecraft and Rockets, 2007, 44, 528-537.	1.3	11
16	New Developments in Surface-to-Surface Discretization Strategies for Analysis of Interface Mechanics. Computational Methods in Applied Sciences (Springer), 2007, , 67-86.	0.1	0
17	Emerging Spatial and Temporal Discretization Methods in Contact and Impact Mechanics. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2007, , 1-37.	0.3	0
18	A contact searching algorithm including bounding volume trees applied to finite sliding mortar formulations. Computational Mechanics, 2007, 41, 189-205.	2.2	56

#	ARTICLE	IF	CITATIONS
19	On the interaction of frictional formulations with bifurcation phenomena in hyperelastic steady state rolling calculations. <i>International Journal of Solids and Structures</i> , 2006, 43, 2959-2988.	1.3	6
20	Determination of the Poisson's ratio of the cell: recovery properties of chondrocytes after release from complete micropipette aspiration. <i>Journal of Biomechanics</i> , 2006, 39, 78-87.	0.9	207
21	Response to Dr. Schachar. <i>Journal of Biomechanics</i> , 2006, 39, 2344-2345.	0.9	3
22	A mortared finite element method for frictional contact on arbitrary interfaces. <i>Computational Mechanics</i> , 2006, 39, 223-235.	2.2	63
23	Finite Element Modeling Predictions of Region-specific Cell-matrix Mechanics in the Meniscus. <i>Biomechanics and Modeling in Mechanobiology</i> , 2006, 5, 140-149.	1.4	43
24	Two dimensional mortar contact methods for large deformation frictional sliding. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 62, 1183-1225.	1.5	163
25	An algorithm for incorporation of frictional sliding conditions within a steady state rolling framework. <i>Communications in Numerical Methods in Engineering</i> , 2005, 22, 301-318.	1.3	16
26	Large Deformation Finite Element Analysis of Micropipette Aspiration to Determine the Mechanical Properties of the Chondrocyte. <i>Annals of Biomedical Engineering</i> , 2005, 33, 494-501.	1.3	96
27	Finite element tree crown hydrodynamics model (FETCH) using porous media flow within branching elements: A new representation of tree hydrodynamics. <i>Water Resources Research</i> , 2005, 41, .	1.7	123
28	Optimally staggered finned circular and elliptic tubes in forced convection. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 1347-1359.	2.5	79
29	A mortar segment-to-segment contact method for large deformation solid mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 601-629.	3.4	285
30	A mortar segment-to-segment frictional contact method for large deformations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 4891-4913.	3.4	189
31	Computational Contact and Impact Mechanics. , 2003, , .		176
32	The Micromechanical Environment of Intervertebral Disc Cells Determined by a Finite Deformation, Anisotropic, and Biphasic Finite Element Model. <i>Journal of Biomechanical Engineering</i> , 2003, 125, 1-11.	0.6	97
33	Improved implicit integrators for transient impact problems?geometric admissibility within the conserving framework. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 53, 245-274.	1.5	89
34	A 3D contact smoothing method using Gregory patches. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 54, 1161-1194.	1.5	106
35	Multiphasic models of cell mechanics. , 2001, , 84-102.		8
36	The Melosh Competition. <i>Finite Elements in Analysis and Design</i> , 2001, 37, 821-823.	1.7	0

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37	Optimization study and heat transfer comparison of staggered circular and elliptic tubes in forced convection. <i>International Journal of Heat and Mass Transfer</i> , 2001, 44, 3953-3961.	2.5	96
38	An algorithm for the matrix-free solution of quasistatic frictional contact problems. <i>International Journal for Numerical Methods in Engineering</i> , 1999, 44, 1205-1226.	1.5	22
39	A generalized object-oriented approach to solving ordinary and partial differential equations using finite elements. <i>Finite Elements in Analysis and Design</i> , 1996, 22, 93-107.	1.7	14
40	A continuum-based finite element formulation for the implicit solution of multibody, large deformation-frictional contact problems. <i>International Journal for Numerical Methods in Engineering</i> , 1993, 36, 3451-3485.	1.5	306
41	Algorithmic symmetrization of coulomb frictional problems using augmented lagrangians. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1993, 108, 133-146.	3.4	96
42	A study of the mechanics of microindentation using finite elements. <i>Journal of Materials Research</i> , 1992, 7, 618-626.	1.2	203
43	An augmented lagrangian treatment of contact problems involving friction. <i>Computers and Structures</i> , 1992, 42, 97-116.	2.4	711