

Ragnar Larsson

List of Publications by Year in descending order

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84
papers

1,680
citations

331538

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39
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85
all docs

85
docs citations

85
times ranked

1151
citing authors

#	ARTICLE	IF	CITATIONS
1	A micromechanically based model for dynamic damage evolution in unidirectional composites. International Journal of Solids and Structures, 2022, 238, 111368.	1.3	3
2	A preform deformation and resin flow coupled model including the cure kinetics and chemo-rheology for the VARTM process. International Journal of Material Forming, 2021, 14, 421-434.	0.9	4
3	Validation of the ductile fracture modeling of CGI at quasi-static loading conditions. International Journal of Damage Mechanics, 2021, 30, 1400-1422.	2.4	0
4	Gradient-enhanced damage growth modeling of ductile fracture. International Journal for Numerical Methods in Engineering, 2021, 122, 5676-5691.	1.5	1
5	A shell model for resin flow and preform deformation in thin-walled composite manufacturing processes. International Journal of Material Forming, 2020, 13, 923-937.	0.9	8
6	A thermomechanically motivated approach for identification of flow stress properties in metal cutting. International Journal of Advanced Manufacturing Technology, 2020, 111, 1055-1068.	1.5	1
7	A micromechanically based model for strain rate effects in unidirectional composites. Mechanics of Materials, 2020, 148, 103491.	1.7	5
8	Expanding Puck and Schürmann Inter Fiber Fracture Criterion for Fiber Reinforced Thermoplastic 3D-Printed Composite Materials. Materials, 2020, 13, 1653.	1.3	13
9	A ductile fracture model based on continuum thermodynamics and damage. Mechanics of Materials, 2019, 139, 103197.	1.7	3
10	A Mechanics Based Surface Image Interpretation Method for Multifunctional Nanocomposites. Nanomaterials, 2019, 9, 1578.	1.9	3
11	Modeling and Experimental Validation of the VARTM Process for Thin-Walled Preforms. Polymers, 2019, 11, 2003.	2.0	5
12	Homogenized free surface flow in porous media for wet-out processing. International Journal for Numerical Methods in Engineering, 2018, 115, 445-461.	1.5	3
13	An element subscale refinement for representation of the progressive fracture based on the phantom node approach. Computers and Structures, 2018, 196, 134-145.	2.4	3
14	Damage growth and strain localization in compressive loaded fiber reinforced composites. Mechanics of Materials, 2018, 127, 77-90.	1.7	17
15	XFEM-based element subscale refinement for detailed representation of crack propagation in large-scale analyses. International Journal for Numerical Methods in Engineering, 2017, 110, 549-572.	1.5	4
16	Holistic modeling of composites manufacturing using poromechanics. Advanced Manufacturing: Polymer and Composites Science, 2016, 2, 14-26.	0.2	2
17	Mesh objective continuum damage models for ductile fracture. International Journal for Numerical Methods in Engineering, 2016, 106, 840-860.	1.5	18
18	MESH OBJECTIVE DAMAGE MODELING OF DUCTILE FRACTURE AT VISCO-PLASTIC CONTINUUM RESPONSE. , 2016, , .		0

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19	Experimental assessment of dual-scale resin flow-deformation in composites processing. Composites Part A: Applied Science and Manufacturing, 2015, 76, 215-223.	3.8	8
20	Rate Sensitive Continuum Damage Models and Mesh Dependence in Finite Element Analyses. Scientific World Journal, The, 2014, 2014, 1-8.	0.8	9
21	A FE based machining simulation methodology accounting for cast iron microstructure. Finite Elements in Analysis and Design, 2014, 80, 1-10.	1.7	46
22	A stress-resultant shell theory based on multiscale homogenization. Computer Methods in Applied Mechanics and Engineering, 2013, 263, 1-11.	3.4	11
23	Dynamic crack propagation in elastoplastic thin-walled structures: Modelling and validation. International Journal for Numerical Methods in Engineering, 2013, 96, 63-86.	1.5	18
24	Hypo- and hyper-inelasticity applied to modeling of compacted graphite iron machining simulations. European Journal of Mechanics, A/Solids, 2013, 37, 57-68.	2.1	14
25	Modeling of coupled dual-scale flow-deformation processes in composites manufacturing. Composites Part A: Applied Science and Manufacturing, 2013, 46, 108-116.	3.8	18
26	Continuum-molecular modelling of graphene. Computational Materials Science, 2012, 53, 37-43.	1.4	12
27	Free surface flow and preform deformation in composites manufacturing based on porous media theory. European Journal of Mechanics, A/Solids, 2012, 31, 1-12.	2.1	15
28	Modeling of Distortion during Casting and Machining of Aluminum Engine Blocks With Cast-in Gray Iron Liners. Materials Performance and Characterization, 2012, 1, 104-132.	0.2	0
29	Atomistic continuum modeling of graphene membranes. Computational Materials Science, 2011, 50, 1744-1753.	1.4	18
30	Dynamic fracture modeling in shell structures based on XFEM. International Journal for Numerical Methods in Engineering, 2011, 86, 499-527.	1.5	43
31	Anisotropic and tension-compression asymmetric model for composites consolidation. Composites Part A: Applied Science and Manufacturing, 2010, 41, 284-294.	3.8	3
32	Two phase continuum modelling of composites consolidation. Plastics, Rubber and Composites, 2009, 38, 93-97.	0.9	3
33	A micropolar theory for the finite elasticity of open-cell cellular solids. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 843-865.	1.0	27
34	Computational modelling of dissipative open-cell cellular solids at finite deformations. International Journal of Plasticity, 2009, 25, 802-821.	4.1	10
35	Homogenization of delamination growth in an ACA flip-chip joint based on micropolar theory. European Journal of Mechanics, A/Solids, 2009, 28, 433-444.	2.1	2
36	Approaches to dynamic fracture modelling at finite deformations. Journal of the Mechanics and Physics of Solids, 2008, 56, 613-639.	2.3	29

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37	A thermo-mechanical cohesive zone formulation for ductile fracture. Journal of the Mechanics and Physics of Solids, 2008, 56, 3037-3058.	2.3	57
38	Modeling of large inelastic deformations of foams with respect to the point of compaction. European Journal of Mechanics, A/Solids, 2008, 27, 234-246.	2.1	4
39	A constitutive equation for open-cell cellular solids, including viscoplasticity, damage and deformation induced anisotropy. International Journal of Plasticity, 2008, 24, 896-914.	4.1	18
40	Experimental Investigation and Micropolar Modelling of the Anisotropic Conductive Adhesive Flip-Chip Interconnection. Journal of Adhesion Science and Technology, 2008, 22, 1717-1731.	1.4	3
41	Experimental and Modeling of the Stress-Strain Behavior of a BGA Interconnect Due to Thermal Load. Journal of Electronic Packaging, Transactions of the ASME, 2008, 130, .	1.2	1
42	A second-order homogenization procedure for multi-scale analysis based on micropolar kinematics. International Journal for Numerical Methods in Engineering, 2007, 69, 2485-2512.	1.5	81
43	Pore-gas interaction in foams at finite deformation using staggered solution techniques. Computer Methods in Applied Mechanics and Engineering, 2007, 197, 148-159.	3.4	3
44	Press forming of commingled yarn based composites: The preform contribution. Composites Science and Technology, 2007, 67, 515-524.	3.8	4
45	Interface modelling of microsystem interconnections using micropolar theory and discontinuous approximation. Computers and Structures, 2007, 85, 1500-1513.	2.4	5
46	Homogenization of microsystem interconnects based on micropolar theory and discontinuous kinematics. Journal of the Mechanics and Physics of Solids, 2007, 55, 819-841.	2.3	27
47	Homogenization model based on micropolar theory for the interconnection layer in microsystem packaging. , 2006, , .		0
48	Study on the Multi-Scale Properties of the Internal Structure in ACA Interconnection. , 2006, , .		1
49	Theory and numerics for finite deformation fracture modelling using strong discontinuities. International Journal for Numerical Methods in Engineering, 2006, 66, 911-948.	1.5	68
50	On Fracture Modelling Based on Inverse Strong Discontinuities. , 2005, , 269-277.		0
51	Hydrostatic consolidation of commingled fibre composites. Composites Science and Technology, 2005, 65, 1507-1519.	3.8	9
52	A framework for fracture modelling based on the material forces concept with XFEM kinematics. International Journal for Numerical Methods in Engineering, 2005, 62, 1763-1788.	1.5	38
53	Interface Modelling of ACA Interconnects Using Micropolar Theory. , 2005, , .		2
54	Modeling of large inelastic deformations of foam with respect to energy absorption. , 2005, , .		2

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55	Nickel based superalloy welding practices for industrial gas turbine applications. Science and Technology of Welding and Joining, 2004, 9, 13-21.	1.5	338
56	Process-modeling of composites using two-phase porous media theory. European Journal of Mechanics, A/Solids, 2004, 23, 15-36.	2.1	24
57	A discontinuous shell-interface element for delamination analysis of laminated composite structures. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 3173-3194.	3.4	30
58	Rotational interface formulation for delamination analysis of composite laminates. Computers and Structures, 2003, 81, 2705-2716.	2.4	1
59	Geometrically non-linear damage interface based on regularized strong discontinuity. International Journal for Numerical Methods in Engineering, 2002, 54, 473-497.	1.5	14
60	Non-linear analysis of nearly saturated porous media: theoretical and numerical formulation. Computer Methods in Applied Mechanics and Engineering, 2002, 191, 3885-3907.	3.4	30
61	Theory and numerics of localization in a fluid-saturated elasto-plastic porous medium. , 2002, , 315-340.		0
62	A damage model for simulation of mixed-mode delamination growth. Composite Structures, 2001, 53, 409-417.	3.1	30
63	Localization analysis of a fluid-saturated elastoplastic porous medium using regularized discontinuities. International Journal for Numerical and Analytical Methods in Geomechanics, 2000, 5, 565-582.	1.0	20
64	Finite-element analysis of localization of deformation and fluid pressure in an elastoplastic porous medium. International Journal of Solids and Structures, 2000, 37, 7231-7257.	1.3	30
65	FINITE ELEMENT MODELLING OF DELAMINATION PROGRESSION UNDER MIXED MODE LOADINGS. , 2000, , 473-480.		2
66	On localization in thermo-elastoplastic solids subjected to adiabatic conditions. European Journal of Mechanics, A/Solids, 1999, 18, 557-579.	2.1	6
67	Computational strategy for capturing localization in undrained soil. Computational Mechanics, 1999, 24, 293-303.	2.2	4
68	Finite element embedded localization band for finite strain plasticity based on a regularized strong discontinuity. International Journal for Numerical and Analytical Methods in Geomechanics, 1999, 4, 171-194.	1.0	33
69	On the Analysis of Adiabatic Strong Discontinuities within Thermoplastic Solids. , 1999, , 251-260.		1
70	On the localization properties of multiplicative hyperelasto-plastic continua with strong discontinuities. International Journal of Solids and Structures, 1997, 34, 969-990.	1.3	53
71	Element-Embedded Localization Band Based on Regularized Displacement Discontinuity. Journal of Engineering Mechanics - ASCE, 1996, 122, 402-411.	1.6	79
72	LOCALIZATION PROPERTIES OF A FRICTIONAL MATERIAL MODEL BASED ON REGULARIZED STRONG DISCONTINUITY. International Journal for Numerical and Analytical Methods in Geomechanics, 1996, 20, 771-783.	1.7	3

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73	Implicit integration and consistent linearization for yield criteria of the Mohr-Coulomb type. International Journal for Numerical and Analytical Methods in Geomechanics, 1996, 1, 367-383.	1.0	36
74	Embedded localization band in undrained soil based on regularized strong discontinuity theory and FE-analysis. International Journal of Solids and Structures, 1996, 33, 3081-3101.	1.3	79
75	A generalized fictitious crack model based on plastic localization and discontinuous approximation. International Journal for Numerical Methods in Engineering, 1995, 38, 3167-3188.	1.5	10
76	Cohesive crack models for semi-brittle materials derived from localization of damage coupled to plasticity. International Journal of Fracture, 1995, 69, 101-122.	1.1	5
77	Discontinuous displacement approximation for capturing plastic localization. International Journal for Numerical Methods in Engineering, 1993, 36, 2087-2105.	1.5	101
78	Properties of Incremental Solutions for Dissipative Material. Journal of Engineering Mechanics - ASCE, 1993, 119, 647-666.	1.6	4
79	FORMULATION AND IMPLEMENTATION OF CONDITIONS FOR FRICTIONAL CONTACT. Engineering Computations, 1993, 10, 3-14.	0.7	12
80	Numerical Simulation of Plastic Localization Using Fe-Mesh Realignment. , 1993, , 79-113.		0
81	Finite element simulation of localized plastic deformation. Archive of Applied Mechanics, 1991, 61, 305-317.	1.2	15
82	Characteristics and Computational Procedure in Softening Plasticity. Journal of Engineering Mechanics - ASCE, 1989, 115, 1628-1646.	1.6	18
83	Stability of elastic plane frames including soil-structure interaction. Computers and Structures, 1988, 29, 845-855.	2.4	0
84	Microsystem Interconnections Modelling Using Micropolar Theory and Discontinuous Approximation. , 0, , .		0