

Ragnar Larsson

List of Publications by Year in descending order

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84
papers

1,680
citations

331538

21
h-index

302012

39
g-index

85
all docs

85
docs citations

85
times ranked

1151
citing authors

#	ARTICLE	IF	CITATIONS
1	Nickel based superalloy welding practices for industrial gas turbine applications. Science and Technology of Welding and Joining, 2004, 9, 13-21.	1.5	338
2	Discontinuous displacement approximation for capturing plastic localization. International Journal for Numerical Methods in Engineering, 1993, 36, 2087-2105.	1.5	101
3	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
4	Element-Embedded Localization Band Based on Regularized Displacement Discontinuity. Journal of Engineering Mechanics - ASCE, 1996, 122, 402-411.	1.6	79
5	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
6	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
7	A thermo-mechanical cohesive zone formulation for ductile fracture. Journal of the Mechanics and Physics of Solids, 2008, 56, 3037-3058.	2.3	57
8	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
9	A FE based machining simulation methodology accounting for cast iron microstructure. Finite Elements in Analysis and Design, 2014, 80, 1-10.	1.7	46
10	Dynamic fracture modeling in shell structures based on XFEM. International Journal for Numerical Methods in Engineering, 2011, 86, 499-527.	1.5	43
11	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
12	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
13	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
14	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
15	A damage model for simulation of mixed-mode delamination growth. Composite Structures, 2001, 53, 409-417.	3.1	30
16	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
17	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
18	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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19	Homogenization of microsystem interconnects based on micropolar theory and discontinuous kinematics. <i>Journal of the Mechanics and Physics of Solids</i> , 2007, 55, 819-841.	2.3	27
20	A micropolar theory for the finite elasticity of open-cell cellular solids. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2009, 465, 843-865.	1.0	27
21	Process-modeling of composites using two-phase porous media theory. <i>European Journal of Mechanics, A/Solids</i> , 2004, 23, 15-36.	2.1	24
22	Localization analysis of a fluid-saturated elastoplastic porous medium using regularized discontinuities. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2000, 5, 565-582.	1.0	20
23	Characteristics and Computational Procedure in Softening Plasticity. <i>Journal of Engineering Mechanics - ASCE</i> , 1989, 115, 1628-1646.	1.6	18
24	A constitutive equation for open-cell cellular solids, including viscoplasticity, damage and deformation induced anisotropy. <i>International Journal of Plasticity</i> , 2008, 24, 896-914.	4.1	18
25	Atomistic continuum modeling of graphene membranes. <i>Computational Materials Science</i> , 2011, 50, 1744-1753.	1.4	18
26	Dynamic crack propagation in elastoplastic thin-walled structures: Modelling and validation. <i>International Journal for Numerical Methods in Engineering</i> , 2013, 96, 63-86.	1.5	18
27	Modeling of coupled dual-scale flow-deformation processes in composites manufacturing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2013, 46, 108-116.	3.8	18
28	Mesh objective continuum damage models for ductile fracture. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 106, 840-860.	1.5	18
29	Damage growth and strain localization in compressive loaded fiber reinforced composites. <i>Mechanics of Materials</i> , 2018, 127, 77-90.	1.7	17
30	Finite element simulation of localized plastic deformation. <i>Archive of Applied Mechanics</i> , 1991, 61, 305-317.	1.2	15
31	Free surface flow and preform deformation in composites manufacturing based on porous media theory. <i>European Journal of Mechanics, A/Solids</i> , 2012, 31, 1-12.	2.1	15
32	Geometrically non-linear damage interface based on regularized strong discontinuity. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 54, 473-497.	1.5	14
33	Hypo- and hyper-inelasticity applied to modeling of compacted graphite iron machining simulations. <i>European Journal of Mechanics, A/Solids</i> , 2013, 37, 57-68.	2.1	14
34	Expanding Puck and Schürmann Inter Fiber Fracture Criterion for Fiber Reinforced Thermoplastic 3D-Printed Composite Materials. <i>Materials</i> , 2020, 13, 1653.	1.3	13
35	FORMULATION AND IMPLEMENTATION OF CONDITIONS FOR FRICTIONAL CONTACT. <i>Engineering Computations</i> , 1993, 10, 3-14.	0.7	12
36	Continuum-molecular modelling of graphene. <i>Computational Materials Science</i> , 2012, 53, 37-43.	1.4	12

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37	A stress-resultant shell theory based on multiscale homogenization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 263, 1-11.	3.4	11
38	A generalized fictitious crack model based on plastic localization and discontinuous approximation. <i>International Journal for Numerical Methods in Engineering</i> , 1995, 38, 3167-3188.	1.5	10
39	Computational modelling of dissipative open-cell cellular solids at finite deformations. <i>International Journal of Plasticity</i> , 2009, 25, 802-821.	4.1	10
40	Hydrostatic consolidation of commingled fibre composites. <i>Composites Science and Technology</i> , 2005, 65, 1507-1519.	3.8	9
41	Rate Sensitive Continuum Damage Models and Mesh Dependence in Finite Element Analyses. <i>Scientific World Journal, The</i> , 2014, 2014, 1-8.	0.8	9
42	Experimental assessment of dual-scale resin flow-deformation in composites processing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 76, 215-223.	3.8	8
43	A shell model for resin flow and preform deformation in thin-walled composite manufacturing processes. <i>International Journal of Material Forming</i> , 2020, 13, 923-937.	0.9	8
44	On localization in thermo-elastoplastic solids subjected to adiabatic conditions. <i>European Journal of Mechanics, A/Solids</i> , 1999, 18, 557-579.	2.1	6
45	Cohesive crack models for semi-brittle materials derived from localization of damage coupled to plasticity. <i>International Journal of Fracture</i> , 1995, 69, 101-122.	1.1	5
46	Interface modelling of microsystem interconnections using micropolar theory and discontinuous approximation. <i>Computers and Structures</i> , 2007, 85, 1500-1513.	2.4	5
47	Modeling and Experimental Validation of the VARTM Process for Thin-Walled Preforms. <i>Polymers</i> , 2019, 11, 2003.	2.0	5
48	A micromechanically based model for strain rate effects in unidirectional composites. <i>Mechanics of Materials</i> , 2020, 148, 103491.	1.7	5
49	Properties of Incremental Solutions for Dissipative Material. <i>Journal of Engineering Mechanics - ASCE</i> , 1993, 119, 647-666.	1.6	4
50	Computational strategy for capturing localization in undrained soil. <i>Computational Mechanics</i> , 1999, 24, 293-303.	2.2	4
51	Press forming of commingled yarn based composites: The preform contribution. <i>Composites Science and Technology</i> , 2007, 67, 515-524.	3.8	4
52	Modeling of large inelastic deformations of foams with respect to the point of compaction. <i>European Journal of Mechanics, A/Solids</i> , 2008, 27, 234-246.	2.1	4
53	XFEM-based element subscale refinement for detailed representation of crack propagation in large-scale analyses. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 110, 549-572.	1.5	4
54	A preform deformation and resin flow coupled model including the cure kinetics and chemo-rheology for the VARTM process. <i>International Journal of Material Forming</i> , 2021, 14, 421-434.	0.9	4

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55	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
56	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
57	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
58	Two phase continuum modelling of composites consolidation. Plastics, Rubber and Composites, 2009, 38, 93-97.	0.9	3
59	Anisotropic and tension-compression asymmetric model for composites consolidation. Composites Part A: Applied Science and Manufacturing, 2010, 41, 284-294.	3.8	3
60	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
61	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
62	A ductile fracture model based on continuum thermodynamics and damage. Mechanics of Materials, 2019, 139, 103197.	1.7	3
63	A Mechanics Based Surface Image Interpretation Method for Multifunctional Nanocomposites. Nanomaterials, 2019, 9, 1578.	1.9	3
64	A micromechanically based model for dynamic damage evolution in unidirectional composites. International Journal of Solids and Structures, 2022, 238, 111368.	1.3	3
65	Interface Modelling of ACA Interconnects Using Micropolar Theory. , 2005, , .		2
66	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
67	Holistic modeling of composites manufacturing using poromechanics. Advanced Manufacturing: Polymer and Composites Science, 2016, 2, 14-26.	0.2	2
68	Modeling of large inelastic deformations of foam with respect to energy absorption. , 2005, , .		2
69	FINITE ELEMENT MODELLING OF DELAMINATION PROGRESSION UNDER MIXED MODE LOADINGS. , 2000, , 473-480.		2
70	Rotational interface formulation for delamination analysis of composite laminates. Computers and Structures, 2003, 81, 2705-2716.	2.4	1
71	Study on the Multi-Scale Properties of the Internal Structure in ACA Interconnection. , 2006, , .		1
72	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

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73	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
74	Gradient-enhanced damage growth modeling of ductile fracture. International Journal for Numerical Methods in Engineering, 2021, 122, 5676-5691.	1.5	1
75	On the Analysis of Adiabatic Strong Discontinuities within Thermoplastic Solids. , 1999, , 251-260.		1
76	Stability of elastic plane frames including soil-structure interaction. Computers and Structures, 1988, 29, 845-855.	2.4	0
77	On Fracture Modelling Based on Inverse Strong Discontinuities. , 2005, , 269-277.		0
78	Microsystem Interconnections Modelling Using Micropolar Theory and Discontinuous Approximation. , 0, , .		0
79	Homogenization model based on micropolar theory for the interconnection layer in microsystem packaging. , 2006, , .		0
80	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
81	Theory and numerics of localization in a fluid-saturated elasto-plastic porous medium. , 2002, , 315-340.		0
82	Modeling of Distortion during Casting and Machining of Aluminum Engine Blocks With Cast-in Gray Iron Liners. Materials Performance and Characterization, 2012, 1, 104382.	0.2	0
83	Numerical Simulation of Plastic Localization Using Fe-Mesh Realignment. , 1993, , 79-113.		0
84	MESH OBJECTIVE DAMAGE MODELING OF DUCTILE FRACTURE AT VISCO-PLASTIC CONTINUUM RESPONSE. , 2016, , .		0