

Paul Steinmann

List of Publications by Year in descending order

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591
papers

14,690
citations

20797

60
h-index

38368

95
g-index

623
all docs

623
docs citations

623
times ranked

6980
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical properties of gray and white matter brain tissue by indentation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 46, 318-330.	1.5	499
2	Mechanical characterization of human brain tissue. <i>Acta Biomaterialia</i> , 2017, 48, 319-340.	4.1	423
3	Hyperelastic models for rubber-like materials: consistent tangent operators and suitability for Treloar's data. <i>Archive of Applied Mechanics</i> , 2012, 82, 1183-1217.	1.2	288
4	Fifty Shades of Brain: A Review on the Mechanical Testing and Modeling of Brain Tissue. <i>Archives of Computational Methods in Engineering</i> , 2020, 27, 1187-1230.	6.0	215
5	A finite element method for the computational modelling of cohesive cracks. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 63, 276-289.	1.5	209
6	Physical biology of human brain development. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 257.	1.8	204
7	The role of mechanics during brain development. <i>Journal of the Mechanics and Physics of Solids</i> , 2014, 72, 75-92.	2.3	197
8	Brain stiffness increases with myelin content. <i>Acta Biomaterialia</i> , 2016, 42, 265-272.	4.1	194
9	Numerical modelling of non-linear electroelasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 70, 685-704.	1.5	179
10	Geometrically nonlinear higher-gradient elasticity with energetic boundaries. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 2381-2401.	2.3	179
11	Application of material forces to hyperelastostatic fracture mechanics. I. Continuum mechanical setting. <i>International Journal of Solids and Structures</i> , 2000, 37, 7371-7391.	1.3	170
12	On the continuum formulation of higher gradient plasticity for single and polycrystals. <i>Journal of the Mechanics and Physics of Solids</i> , 2000, 48, 1777-1796.	2.3	165
13	Aspects of Computational Homogenization at Finite Deformations: A Unifying Review From Reuss' to Voigt's Bound. <i>Applied Mechanics Reviews</i> , 2016, 68, .	4.5	156
14	Frame-indifferent beam finite elements based upon the geometrically exact beam theory. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 54, 1775-1788.	1.5	153
15	A micropolar theory of finite deformation and finite rotation multiplicative elastoplasticity. <i>International Journal of Solids and Structures</i> , 1994, 31, 1063-1084.	1.3	152
16	Views on multiplicative elastoplasticity and the continuum theory of dislocations. <i>International Journal of Engineering Science</i> , 1996, 34, 1717-1735.	2.7	149
17	Application of material forces to hyperelastostatic fracture mechanics. II. Computational setting. <i>International Journal of Solids and Structures</i> , 2001, 38, 5509-5526.	1.3	148
18	Thermomechanics of Solids With Lower-Dimensional Energetics: On the Importance of Surface, Interface, and Curve Structures at the Nanoscale. A Unifying Review. <i>Applied Mechanics Reviews</i> , 2013, 65, .	4.5	147

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19	Experimental study and numerical modelling of VHB 4910 polymer. Computational Materials Science, 2012, 59, 65-74.	1.4	132
20	On higher gradients in continuum-atomistic modelling. International Journal of Solids and Structures, 2003, 40, 6877-6896.	1.3	130
21	Viscoelastic parameter identification of human brain tissue. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 74, 463-476.	1.5	124
22	Rheological characterization of human brain tissue. Acta Biomaterialia, 2017, 60, 315-329.	4.1	124
23	On boundary potential energies in deformational and configurational mechanics. Journal of the Mechanics and Physics of Solids, 2008, 56, 772-800.	2.3	121
24	Isogeometric analysis of 2D gradient elasticity. Computational Mechanics, 2011, 47, 325-334.	2.2	117
25	Computational homogenization in magneto-mechanics. International Journal of Solids and Structures, 2013, 50, 4197-4216.	1.3	115
26	Conservation properties of a time FE method?part II: Time-stepping schemes for non-linear elastodynamics. International Journal for Numerical Methods in Engineering, 2001, 50, 1931-1955.	1.5	111
27	A framework for multiplicative elastoplasticity with kinematic hardening coupled to anisotropic damage. International Journal of Plasticity, 2005, 21, 397-434.	4.1	110
28	A theory of finite deformation magneto-viscoelasticity. International Journal of Solids and Structures, 2013, 50, 3886-3897.	1.3	108
29	More hyperelastic models for rubber-like materials: consistent tangent operators and comparative study. Journal of the Mechanical Behavior of Materials, 2013, 22, 27-50.	0.7	105
30	On the numerical treatment and analysis of finite deformation ductile single crystal plasticity. Computer Methods in Applied Mechanics and Engineering, 1996, 129, 235-254.	3.4	98
31	Computational modeling of growth. Computational Mechanics, 2003, 32, 71-88.	2.2	97
32	A hybrid discontinuous Galerkin/interface method for the computational modelling of failure. Communications in Numerical Methods in Engineering, 2004, 20, 511-519.	1.3	92
33	Theoretical and computational aspects of a thermodynamically consistent framework for geometrically linear gradient damage. Computer Methods in Applied Mechanics and Engineering, 2001, 190, 6555-6576.	3.4	91
34	Two-scale computational homogenization of electro-elasticity at finite strains. Computer Methods in Applied Mechanics and Engineering, 2014, 278, 62-79.	3.4	89
35	Macroscopic simulation and experimental measurement of melt pool characteristics in selective electron beam melting of Ti-6Al-4V. International Journal of Advanced Manufacturing Technology, 2017, 88, 1309-1317.	1.5	88
36	Constrained integration of rigid body dynamics. Computer Methods in Applied Mechanics and Engineering, 2001, 191, 467-488.	3.4	85

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37	A finite element framework for continua with boundary energies. Part II: The three-dimensional case. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 755-765.	3.4	84
38	A small-strain model to simulate the curing of thermosets. <i>Computational Mechanics</i> , 2009, 43, 769-779.	2.2	81
39	Conservation properties of a time FE method. Part I: time-stepping schemes for N-body problems. <i>International Journal for Numerical Methods in Engineering</i> , 2000, 49, 599-638.	1.5	80
40	Studies in elastic fracture mechanics based on the material force method. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 58, 1817-1835.	1.5	80
41	Modelling and simulation of process: machine interaction in grinding. <i>Production Engineering</i> , 2009, 3, 111-120.	1.1	80
42	Micropolar elastoplasticity and its role in localization. <i>International Journal of Plasticity</i> , 1993, 9, 813-831.	4.1	78
43	Modeling three-dimensional crack propagation—A comparison of crack path tracking strategies. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 76, 1328-1352.	1.5	78
44	A finite element framework for continua with boundary energies. Part I: The two-dimensional case. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 2198-2208.	3.4	77
45	Formulation and computation of geometrically non-linear gradient damage. <i>International Journal for Numerical Methods in Engineering</i> , 1999, 46, 757-779.	1.5	76
46	Micro-to-macro transition accounting for general imperfect interfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 317, 274-317.	3.4	73
47	Inherently Energy Conserving Time Finite Elements for Classical Mechanics. <i>Journal of Computational Physics</i> , 2000, 160, 88-116.	1.9	72
48	A formulation for an unsaturated porous medium undergoing large inelastic strains. <i>Computational Mechanics</i> , 2002, 28, 137-151.	2.2	71
49	Comparison of different finite deformation inelastic damage models within multiplicative elastoplasticity for ductile materials. <i>Computational Mechanics</i> , 1994, 13, 458-474.	2.2	70
50	Mass- and volume-specific views on thermodynamics for open systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2003, 459, 2547-2568.	1.0	70
51	Conservation properties of a time FE method?part III: Mechanical systems with holonomic constraints. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 53, 2271-2304.	1.5	69
52	Theory and numerics of a thermodynamically consistent framework for geometrically linear gradient plasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2001, 51, 1437-1467.	1.5	67
53	General imperfect interfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014, 275, 76-97.	3.4	67
54	A theoretical and computational framework for anisotropic continuum damage mechanics at large strains. <i>International Journal of Solids and Structures</i> , 2001, 38, 9505-9523.	1.3	66

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55	An ALE formulation based on spatial and material settings of continuum mechanics. Part 1: Generic hyperelastic formulation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 4207-4222.	3.4	66
56	A finite strain framework for the simulation of polymer curing. Part I: elasticity. <i>Computational Mechanics</i> , 2009, 44, 621-630.	2.2	66
57	On the spatial formulation of anisotropic multiplicative elasto-plasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003, 192, 3431-3470.	3.4	65
58	Nonlinear electro- and magneto-elastostatics: Material and spatial settings. <i>International Journal of Solids and Structures</i> , 2007, 44, 7891-7905.	1.3	65
59	On thermo-viscoelastic experimental characterization and numerical modelling of VHB polymer. <i>International Journal of Non-Linear Mechanics</i> , 2020, 118, 103263.	1.4	65
60	A unifying treatise on variational principles for gradient and micromorphic continua. <i>Philosophical Magazine</i> , 2005, 85, 3875-3895.	0.7	62
61	On thermomechanical solids with boundary structures. <i>International Journal of Solids and Structures</i> , 2010, 47, 3245-3253.	1.3	61
62	Computational multiscale modelling of heterogeneous material layers. <i>Engineering Fracture Mechanics</i> , 2009, 76, 793-812.	2.0	60
63	Modelling, simulation and experimental validation of heat transfer in selective laser melting of the polymeric material PA12. <i>Computational Materials Science</i> , 2014, 93, 239-248.	1.4	60
64	Unified magnetomechanical homogenization framework with application to magnetorheological elastomers. <i>Mathematics and Mechanics of Solids</i> , 2014, 19, 193-211.	1.5	58
65	Constrained dynamics of geometrically exact beams. <i>Computational Mechanics</i> , 2003, 31, 49-59.	2.2	57
66	A unified computational framework for bulk and surface elasticity theory: a curvilinear-coordinate-based finite element methodology. <i>Computational Mechanics</i> , 2014, 54, 745-762.	2.2	57
67	Towards microstructure-informed material models for human brain tissue. <i>Acta Biomaterialia</i> , 2020, 104, 53-65.	4.1	57
68	Studies of validity of the Cauchy-Born rule by direct comparison of continuum and atomistic modelling. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2007, 15, S271-S281.	0.8	56
69	On the mechanics of continua with boundary energies and growing surfaces. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 1446-1463.	2.3	56
70	Theory and numerics of ductile micropolar elastoplastic damage. <i>International Journal for Numerical Methods in Engineering</i> , 1995, 38, 583-606.	1.5	55
71	Theory and numerics of geometrically non-linear open system mechanics. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 58, 1593-1615.	1.5	55
72	On spatial and material settings of hyperelastostatic crystal defects. <i>Journal of the Mechanics and Physics of Solids</i> , 2002, 50, 1743-1766.	2.3	54

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73	Theory and numerics of geometrically non-linear gradient plasticity. <i>International Journal of Engineering Science</i> , 2003, 41, 1603-1629.	2.7	54
74	On the localization properties of multiplicative hyperelasto-plastic continua with strong discontinuities. <i>International Journal of Solids and Structures</i> , 1997, 34, 969-990.	1.3	53
75	Conservation properties of a time FE method. Part IV: Higher order energy and momentum conserving schemes. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 63, 1849-1897.	1.5	53
76	A comprehensive characterization of the electro-mechanically coupled properties of VHB 4910 polymer. <i>Archive of Applied Mechanics</i> , 2015, 85, 523-537.	1.2	53
77	On Spatial and Material Settings of Thermo-Hyperelastodynamics. <i>Journal of Elasticity</i> , 2002, 66, 109-157.	0.9	52
78	Objective energy-momentum conserving integration for the constrained dynamics of geometrically exact beams. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 2313-2333.	3.4	52
79	On molecular statics and surface-enhanced continuum modeling of nano-structures. <i>Computational Materials Science</i> , 2013, 69, 510-519.	1.4	52
80	A unifying treatise of variational principles for two types of micropolar continua. <i>Acta Mechanica</i> , 1997, 121, 215-232.	1.1	51
81	Geometrically nonlinear continuum thermomechanics with surface energies coupled to diffusion. <i>Journal of the Mechanics and Physics of Solids</i> , 2011, 59, 2116-2133.	2.3	51
82	Molecular dynamics study of ferroelectric domain nucleation and domain switching dynamics. <i>Scientific Reports</i> , 2017, 7, 806.	1.6	51
83	A thermodynamically consistent approach to microplane theory. Part II. Dissipation and inelastic constitutive modeling. <i>International Journal of Solids and Structures</i> , 2001, 38, 2933-2952.	1.3	50
84	An ALE formulation based on spatial and material settings of continuum mechanics. Part 2: Classification and applications. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 4223-4245.	3.4	50
85	A 2-D coupled BEM-FEM simulation of electro-elastostatics at large strain. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 1124-1133.	3.4	50
86	Size and curvature regulate pattern selection in the mammalian brain. <i>Extreme Mechanics Letters</i> , 2015, 4, 193-198.	2.0	50
87	On deformational and configurational mechanics of micromorphic hyperelasticity - Theory and computation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 4027-4044.	3.4	49
88	Continuum-kinematics-inspired peridynamics. <i>Mechanical problems</i> . <i>Journal of the Mechanics and Physics of Solids</i> , 2019, 131, 125-146.	2.3	49
89	A variational approach towards the modeling of magnetic field-induced strains in magnetic shape memory alloys. <i>Journal of the Mechanics and Physics of Solids</i> , 2012, 60, 1179-1200.	2.3	48
90	Micro-to-macro transitions for continua with surface structure at the microscale. <i>International Journal of Solids and Structures</i> , 2013, 50, 2561-2572.	1.3	48

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91	Modeling and simulation of viscous electro-active polymers. European Journal of Mechanics, A/Solids, 2014, 48, 112-128.	2.1	48
92	The discrete null space method for the energy-consistent integration of constrained mechanical systems. Part III: Flexible multibody dynamics. Multibody System Dynamics, 2008, 19, 45-72.	1.7	47
93	Computational electro-elasticity and magneto-elasticity for quasi-incompressible media immersed in free space. International Journal for Numerical Methods in Engineering, 2016, 108, 1307-1342.	1.5	47
94	A finite strain framework for the simulation of polymer curing. Part II. Viscoelasticity and shrinkage. Computational Mechanics, 2010, 46, 363-375.	2.2	46
95	Micro-to-macro transitions for heterogeneous material layers accounting for in-plane stretch. Journal of the Mechanics and Physics of Solids, 2012, 60, 1221-1239.	2.3	46
96	Nonlinear magneto-viscoelasticity of transversally isotropic magneto-active polymers. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140082.	1.0	46
97	Geometrical Foundations of Continuum Mechanics. Lecture Notes in Applied Mathematics and Mechanics, 2015, , .	1.1	45
98	A framework for geometrically nonlinear continuum damage mechanics. International Journal of Engineering Science, 1998, 36, 1793-1814.	2.7	44
99	On spatial and material settings of hyperelastodynamics. Acta Mechanica, 2002, 156, 193-218.	1.1	44
100	A DAE Approach to Flexible Multibody Dynamics. Multibody System Dynamics, 2002, 8, 365-389.	1.7	44
101	RVE-based studies on the coupled effects of void size and void shape on yield behavior and void growth at micron scales. International Journal of Plasticity, 2006, 22, 1195-1216.	4.1	44
102	Dynamic performance of dielectric elastomers utilized as acoustic actuators. Applied Physics A: Materials Science and Processing, 2012, 107, 531-538.	1.1	44
103	Theoretical and computational aspects of non-classical thermoelasticity. Computer Methods in Applied Mechanics and Engineering, 2006, 196, 516-527.	3.4	43
104	On the C^1 continuous discretization of non-linear gradient elasticity: A comparison of NEM and FEM based on Bernstein-Bézier patches. International Journal for Numerical Methods in Engineering, 2010, 82, 1282-1307.	1.5	43
105	Phenomenological modelling of self-healing polymers based on integrated healing agents. Computational Mechanics, 2013, 52, 681-692.	2.2	43
106	Thermomechanical finite element simulations of selective electron beam melting processes: performance considerations. Computational Mechanics, 2014, 54, 109-122.	2.2	43
107	On spatial and material settings of thermo-hyperelastodynamics for open systems. Acta Mechanica, 2003, 160, 179-217.	1.1	42
108	Towards a thermo-magneto-mechanical coupling framework for magneto-rheological elastomers. International Journal of Solids and Structures, 2017, 128, 117-132.	1.3	42

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109	An Arlequin-based method to couple molecular dynamics and finite element simulations of amorphous polymers and nanocomposites. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 260, 109-129.	3.4	41
110	Secondary instabilities modulate cortical complexity in the mammalian brain. <i>Philosophical Magazine</i> , 2015, 95, 3244-3256.	0.7	41
111	Homogenization of Composites with Extended General interfaces: Comprehensive Review and Unified Modeling. <i>Applied Mechanics Reviews</i> , 2021, , .	4.5	41
112	Numerical modeling of thermo-electro-viscoelasticity with field-dependent material parameters. <i>International Journal of Non-Linear Mechanics</i> , 2018, 106, 13-24.	1.4	40
113	Energy-conserving integration of constrained Hamiltonian systems ? a comparison of approaches. <i>Computational Mechanics</i> , 2004, 33, 174-185.	2.2	39
114	A fictitious energy approach for shape optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2010, 82, 269-302.	1.5	39
115	Wrinkling instabilities in soft bilayered systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160163.	1.6	39
116	Experimental and numerical investigations of the electro-viscoelastic behavior of VHB 4905TM. <i>European Journal of Mechanics, A/Solids</i> , 2019, 77, 103797.	2.1	39
117	Modeling the porous and viscous responses of human brain tissue behavior. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 369, 113128.	3.4	39
118	Anisotropic damage coupled to plasticity: Modelling based on the effective configuration concept. <i>International Journal for Numerical Methods in Engineering</i> , 2002, 54, 1409-1430.	1.5	38
119	A geometrically nonlinear FE approach for the simulation of strong and weak discontinuities. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 5037-5052.	3.4	38
120	Towards the algorithmic treatment of 3D strong discontinuities. <i>Communications in Numerical Methods in Engineering</i> , 2006, 23, 97-108.	1.3	38
121	Time-dependent fibre reorientation of transversely isotropic continuaâ€”Finite element formulation and consistent linearization. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 73, 1413-1433.	1.5	38
122	On the comparison of two approaches to compute material forces for inelastic materials. Application to single-slip crystal-plasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 5411-5428.	3.4	37
123	Natural element analysis of the Cahnâ€”Hilliard phase-field model. <i>Computational Mechanics</i> , 2010, 46, 471-493.	2.2	37
124	On 3-D coupled BEMâ€”FEM simulation of nonlinear electro-elastostatics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 201-204, 82-90.	3.4	37
125	Application of the material force method to isotropic continuum damage. <i>Computational Mechanics</i> , 2003, 30, 171-184.	2.2	35
126	Geometrically non-linear anisotropic inelasticity based on fictitious configurations: Application to the coupling of continuum damage and multiplicative elasto-plasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2003, 56, 2233-2266.	1.5	35

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127	Numerical modelling of thermomechanical solids with mechanically energetic (generalised) Kapitza interfaces. <i>Computational Materials Science</i> , 2012, 65, 542-551.	1.4	35
128	Computational homogenization of material layers with micromorphic mesostructure. <i>Philosophical Magazine</i> , 2008, 88, 3603-3631.	0.7	34
129	Classification of Concepts in Thermodynamically Consistent Generalized Plasticity. <i>Journal of Engineering Mechanics - ASCE</i> , 2009, 135, 156-170.	1.6	34
130	Simulation of fracture in heterogeneous elastic materials with cohesive zone models. <i>International Journal of Fracture</i> , 2011, 168, 15-29.	1.1	34
131	Aspects of non-associated single crystal plasticity: Influence of non-schmid effects and localization analysis. <i>International Journal of Solids and Structures</i> , 1998, 35, 4437-4456.	1.3	33
132	Finite element embedded localization band for finite strain plasticity based on a regularized strong discontinuity. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1999, 4, 171-194.	1.0	33
133	Multiscale modelling for composites with energetic interfaces at the micro- or nanoscale. <i>Mathematics and Mechanics of Solids</i> , 2015, 20, 1130-1145.	1.5	33
134	Modelling of iron-filled magneto-active polymers with a dispersed chain-like microstructure. <i>European Journal of Mechanics, A/Solids</i> , 2015, 50, 132-151.	2.1	33
135	Anisotropic damage with the MCR effect coupled to plasticity. <i>International Journal of Engineering Science</i> , 2003, 41, 1535-1551.	2.7	32
136	Material forces in open system mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 2357-2381.	3.4	32
137	On some mixed variational principles in magneto-elastostatics. <i>International Journal of Non-Linear Mechanics</i> , 2013, 51, 157-169.	1.4	32
138	On material interfaces in thermomechanical solids. <i>Archive of Applied Mechanics</i> , 2005, 75, 31-41.	1.2	31
139	Towards optimization of crack resistance of composite materials by adjustment of fiber shapes. <i>Engineering Fracture Mechanics</i> , 2011, 78, 944-960.	2.0	31
140	Relationships between the admissible range of surface material parameters and stability of linearly elastic bodies. <i>Philosophical Magazine</i> , 2012, 92, 3540-3563.	0.7	31
141	A view on anisotropic finite hyper-elasticity. <i>European Journal of Mechanics, A/Solids</i> , 2003, 22, 71-87.	2.1	30
142	On the propagation of second-sound in linear and nonlinear media: Results from Green's-Naghdi theory. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 4418-4424.	0.9	30
143	A finite element framework for continua with boundary energies. Part III: The thermomechanical case. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 1963-1977.	3.4	30
144	Modelling the mechanical aspects of the curing process of magneto-sensitive elastomeric materials. <i>International Journal of Solids and Structures</i> , 2015, 58, 257-269.	1.3	30

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145	A numerical study of different projection-based model reduction techniques applied to computational homogenisation. <i>Computational Mechanics</i> , 2017, 60, 613-625.	2.2	30
146	Alginate-based hydrogels show the same complex mechanical behavior as brain tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 111, 103979.	1.5	30
147	Generalized parameter identification for finite viscoelasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007, 196, 3315-3334.	3.4	29
148	A finite element formulation for strong discontinuities in fluid-saturated porous media. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 1999, 4, 133-152.	1.0	28
149	Mechanics of extended continua: modeling and simulation of elastic microstretch materials. <i>Computational Mechanics</i> , 2007, 40, 651-666.	2.2	28
150	Micro-macro characterisation of DGEBA-based epoxies as a preliminary to polymer interphase modelling. <i>International Journal of Adhesion and Adhesives</i> , 2009, 29, 478-487.	1.4	28
151	On some mixed variational principles in electro-elastostatics. <i>International Journal of Non-Linear Mechanics</i> , 2012, 47, 341-354.	1.4	27
152	Computational homogenization of nano-materials accounting for size effects via surface elasticity. <i>GAMM Mitteilungen</i> , 2015, 38, 285-312.	2.7	27
153	A novel spectral formulation for transversely isotropic magneto-elasticity. <i>Mathematics and Mechanics of Solids</i> , 2017, 22, 1158-1176.	1.5	27
154	The computational framework for continuum-kinematics-inspired peridynamics. <i>Computational Mechanics</i> , 2020, 66, 795-824.	2.2	27
155	Performance of enhanced finite element formulations in localized failure computations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1991, 90, 845-867.	3.4	26
156	On the Comparison of Two Strategies to Formulate Orthotropic Hyperelasticity. <i>Journal of Elasticity</i> , 2001, 62, 171-201.	0.9	26
157	A note on the generation of periodic granular microstructures based on grain size distributions. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2008, 32, 509-522.	1.7	26
158	Secret and joy of configurational mechanics: From foundations in continuum mechanics to applications in computational mechanics. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2009, 89, 614-630.	0.9	26
159	Finite element analysis of an inelastic interface in ultrasonic welded metal/fibre-reinforced polymer joints. <i>Computational Materials Science</i> , 2010, 50, 184-190.	1.4	26
160	Nonperiodic stochastic boundary conditions for molecular dynamics simulations of materials embedded into a continuum mechanics domain. <i>Journal of Chemical Physics</i> , 2011, 134, 154108.	1.2	26
161	Thermo-elastic deformations of the workpiece when dry turning aluminum alloys - A finite element model to predict thermal effects in the workpiece. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2014, 7, 233-245.	2.3	26
162	Localization within the Framework of Micropolar Elasto-Plasticity. , 1991, , 296-313.		26

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163	Application of the material force method to thermo-hyperelasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004, 193, 3303-3325.	3.4	25
164	On configurational forces in multiplicative elastoplasticity. <i>International Journal of Solids and Structures</i> , 2007, 44, 4442-4471.	1.3	25
165	Modeling and simulation of first and second sound in solids. <i>International Journal of Solids and Structures</i> , 2008, 45, 6067-6073.	1.3	25
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