

Paul Steinmann

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

584
papers

11,319
citations

55
h-index

83
g-index

623
ext. papers

12,942
ext. citations

2.7
avg, IF

7.02
L-index

#	Paper	IF	Citations
584	Mechanical properties of gray and white matter brain tissue by indentation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 46, 318-30	4.1	334
583	Mechanical characterization of human brain tissue. <i>Acta Biomaterialia</i> , 2017 , 48, 319-340	10.8	268
582	A finite element method for the computational modelling of cohesive cracks. <i>International Journal for Numerical Methods in Engineering</i> , 2005 , 63, 276-289	2.4	188
581	Hyperelastic models for rubber-like materials: consistent tangent operators and suitability for Treloar data. <i>Archive of Applied Mechanics</i> , 2012 , 82, 1183-1217	2.2	185
580	Geometrically nonlinear higher-gradient elasticity with energetic boundaries. <i>Journal of the Mechanics and Physics of Solids</i> , 2013 , 61, 2381-2401	5	159
579	Numerical modelling of non-linear electroelasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2007 , 70, 685-704	2.4	152
578	Application of material forces to hyperelastostatic fracture mechanics. I. Continuum mechanical setting. <i>International Journal of Solids and Structures</i> , 2000 , 37, 7371-7391	3.1	149
577	The role of mechanics during brain development. <i>Journal of the Mechanics and Physics of Solids</i> , 2014 , 72, 75-92	5	148
576	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	5	143
575	Physical biology of human brain development. <i>Frontiers in Cellular Neuroscience</i> , 2015 , 9, 257	6.1	138
574	Application of material forces to hyperelastostatic fracture mechanics. II. Computational setting. <i>International Journal of Solids and Structures</i> , 2001 , 38, 5509-5526	3.1	132
573	Brain stiffness increases with myelin content. <i>Acta Biomaterialia</i> , 2016 , 42, 265-272	10.8	130
572	Views on multiplicative elastoplasticity and the continuum theory of dislocations. <i>International Journal of Engineering Science</i> , 1996 , 34, 1717-1735	5.7	130
571	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	2.4	128
570	A micropolar theory of finite deformation and finite rotation multiplicative elastoplasticity. <i>International Journal of Solids and Structures</i> , 1994 , 31, 1063-1084	3.1	128
569	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,	8.6	117
568	Aspects of Computational Homogenization at Finite Deformations: A Unifying Review From Reuss' to Voigt's Bound. <i>Applied Mechanics Reviews</i> , 2016 , 68,	8.6	112

567	On higher gradients in continuum-atomistic modelling. <i>International Journal of Solids and Structures</i> , 2003 , 40, 6877-6896	3.1	108
566	On boundary potential energies in deformational and configurational mechanics. <i>Journal of the Mechanics and Physics of Solids</i> , 2008 , 56, 772-800	5	103
565	Conservation properties of a time FE method Part II: Time-stepping schemes for non-linear elastodynamics. <i>International Journal for Numerical Methods in Engineering</i> , 2001 , 50, 1931-1955	2.4	100
564	Experimental study and numerical modelling of VHB 4910 polymer. <i>Computational Materials Science</i> , 2012 , 59, 65-74	3.2	93
563	Computational homogenization in magneto-mechanics. <i>International Journal of Solids and Structures</i> , 2013 , 50, 4197-4216	3.1	92
562	Isogeometric analysis of 2D gradient elasticity. <i>Computational Mechanics</i> , 2011 , 47, 325-334	4	92
561	Computational modeling of growth. <i>Computational Mechanics</i> , 2003 , 32, 71-88	4	89
560	A framework for multiplicative elastoplasticity with kinematic hardening coupled to anisotropic damage. <i>International Journal of Plasticity</i> , 2005 , 21, 397-434	7.6	89
559	On the numerical treatment and analysis of finite deformation ductile single crystal plasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1996 , 129, 235-254	5.7	87
558	A theory of finite deformation magneto-viscoelasticity. <i>International Journal of Solids and Structures</i> , 2013 , 50, 3886-3897	3.1	85
557	Viscoelastic parameter identification of human brain tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 74, 463-476	4.1	78
556	A hybrid discontinuous Galerkin/interface method for the computational modelling of failure. <i>Communications in Numerical Methods in Engineering</i> , 2004 , 20, 511-519		77
555	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	5.7	76
554	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	7.8	76
553	Two-scale computational homogenization of electro-elasticity at finite strains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014 , 278, 62-79	5.7	74
552	Theoretical and computational aspects of a thermodynamically consistent framework for geometrically linear gradient damage. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001 , 190, 6555-6576	5.7	72
551	Rheological characterization of human brain tissue. <i>Acta Biomaterialia</i> , 2017 , 60, 315-329	10.8	71
550	Modelling and simulation of process: machine interaction in grinding. <i>Production Engineering</i> , 2009 , 3, 111-120	1.9	71

549	More hyperelastic models for rubber-like materials: consistent tangent operators and comparative study. <i>Journal of the Mechanical Behavior of Materials</i> , 2013 , 22, 27-50	1.9	69
548	Studies in elastic fracture mechanics based on the material force method. <i>International Journal for Numerical Methods in Engineering</i> , 2003 , 58, 1817-1835	2.4	69
547	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	5.7	67
546	Constrained integration of rigid body dynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001 , 191, 467-488	5.7	67
545	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	2.4	66
544	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	2.4	66
543	A small-strain model to simulate the curing of thermosets. <i>Computational Mechanics</i> , 2009 , 43, 769-779	4	65
542	Inherently Energy Conserving Time Finite Elements for Classical Mechanics. <i>Journal of Computational Physics</i> , 2000 , 160, 88-116	4.1	65
541	Micropolar elastoplasticity and its role in localization. <i>International Journal of Plasticity</i> , 1993 , 9, 813-831	7.6	64
540	Macroscopic simulation and experimental measurement of melt pool characteristics in selective electron beam melting of Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 88, 1309-1317	3.2	62
539	Formulation and computation of geometrically non-linear gradient damage. <i>International Journal for Numerical Methods in Engineering</i> , 1999 , 46, 757-779	2.4	62
538	Comparison of different finite deformation inelastic damage models within multiplicative elastoplasticity for ductile materials. <i>Computational Mechanics</i> , 1994 , 13, 458-474	4	62
537	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	2.4	61
536	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	3.1	61
535	Nonlinear electro- and magneto-elastostatics: Material and spatial settings. <i>International Journal of Solids and Structures</i> , 2007 , 44, 7891-7905	3.1	59
534	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	2.4	59
533	On thermomechanical solids with boundary structures. <i>International Journal of Solids and Structures</i> , 2010 , 47, 3245-3253	3.1	58
532	On the spatial formulation of anisotropic multiplicative elasto-plasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003 , 192, 3431-3470	5.7	57

531	Computational multiscale modelling of heterogeneous material layers. <i>Engineering Fracture Mechanics</i> , 2009 , 76, 793-812	4.2	56
530	A formulation for an unsaturated porous medium undergoing large inelastic strains. <i>Computational Mechanics</i> , 2002 , 28, 137-151	4	56
529	Micro-to-macro transition accounting for general imperfect interfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 317, 274-317	5.7	55
528	A finite strain framework for the simulation of polymer curing. Part I: elasticity. <i>Computational Mechanics</i> , 2009 , 44, 621-630	4	55
527	A unifying treatise on variational principles for gradient and micromorphic continua. <i>Philosophical Magazine</i> , 2005 , 85, 3875-3895	1.6	54
526	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	5.7	54
525	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	2.4	54
524	Constrained dynamics of geometrically exact beams. <i>Computational Mechanics</i> , 2003 , 31, 49-59	4	51
523	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	4	48
522	General imperfect interfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014 , 275, 76-97	5.7	48
521	Theory and numerics of geometrically non-linear open system mechanics. <i>International Journal for Numerical Methods in Engineering</i> , 2003 , 58, 1593-1615	2.4	48
520	Unified magnetomechanical homogenization framework with application to magnetorheological elastomers. <i>Mathematics and Mechanics of Solids</i> , 2014 , 19, 193-211	2.3	47
519	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	5	47
518	On the localization properties of multiplicative hyperelasto-plastic continua with strong discontinuities. <i>International Journal of Solids and Structures</i> , 1997 , 34, 969-990	3.1	47
517	On spatial and material settings of hyperelastostatic crystal defects. <i>Journal of the Mechanics and Physics of Solids</i> , 2002 , 50, 1743-1766	5	47
516	On molecular statics and surface-enhanced continuum modeling of nano-structures. <i>Computational Materials Science</i> , 2013 , 69, 510-519	3.2	46
515	Micro-to-macro transitions for continua with surface structure at the microscale. <i>International Journal of Solids and Structures</i> , 2013 , 50, 2561-2572	3.1	45
514	Theory and numerics of geometrically non-linear gradient plasticity. <i>International Journal of Engineering Science</i> , 2003 , 41, 1603-1629	5.7	45

513	Theory and numerics of ductile micropolar elastoplastic damage. <i>International Journal for Numerical Methods in Engineering</i> , 1995 , 38, 583-606	2.4	45
512	Micro-to-macro transitions for heterogeneous material layers accounting for in-plane stretch. <i>Journal of the Mechanics and Physics of Solids</i> , 2012 , 60, 1221-1239	5	44
511	A 2-D coupled BEM/BEM simulation of electro-elastostatics at large strain. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010 , 199, 1124-1133	5.7	44
510	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	2.4	44
509	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	3.1	44
508	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	5	43
507	A unifying treatise of variational principles for two types of micropolar continua. <i>Acta Mechanica</i> , 1997 , 121, 215-232	2.1	43
506	A comprehensive characterization of the electro-mechanically coupled properties of VHB 4910 polymer. <i>Archive of Applied Mechanics</i> , 2015 , 85, 523-537	2.2	42
505	Modeling and Simulation of Viscous Electro-Active Polymers. <i>European Journal of Mechanics, A/Solids</i> , 2014 , 48, 112-128	3.7	42
504	Dynamic performance of dielectric elastomers utilized as acoustic actuators. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 107, 531-538	2.6	42
503	Geometrically nonlinear continuum thermomechanics with surface energies coupled to diffusion. <i>Journal of the Mechanics and Physics of Solids</i> , 2011 , 59, 2116-2133	5	42
502	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	2	42
501	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	5.7	42
500	On Spatial and Material Settings of Thermo-Hyperelastodynamics. <i>Journal of Elasticity</i> , 2002 , 66, 109-157	1.5	42
499	Nonlinear magneto-viscoelasticity of transversally isotropic magneto-active polymers. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2014 , 470, 20140082	2.4	39
498	Thermomechanical finite element simulations of selective electron beam melting processes: performance considerations. <i>Computational Mechanics</i> , 2014 , 54, 109-122	4	39
497	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	5.7	39
496	On spatial and material settings of hyperelastodynamics. <i>Acta Mechanica</i> , 2002 , 156, 193-218	2.1	39

495	Size and curvature regulate pattern selection in the mammalian brain. <i>Extreme Mechanics Letters</i> , 2015 , 4, 193-198	3.9	38
494	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	3.2	38
493	On deformational and configurational mechanics of micromorphic hyperelasticity Theory and computation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 196, 4027-4044	5.7	38
492	RVE-based studies on the coupled effects of void size and void shape on yield behavior and void growth at micron scales. <i>International Journal of Plasticity</i> , 2006 , 22, 1195-1216	7.6	38
491	On spatial and material settings of thermo-hyperelastodynamics for open systems. <i>Acta Mechanica</i> , 2003 , 160, 179-217	2.1	38
490	The discrete null space method for the energy-consistent integration of constrained mechanical systems. Part III: Flexible multibody dynamics. <i>Multibody System Dynamics</i> , 2008 , 19, 45-72	2.8	37
489	Computational electro-elasticity and magneto-elasticity for quasi-incompressible media immersed in free space. <i>International Journal for Numerical Methods in Engineering</i> , 2016 , 108, 1307-1342	2.4	37
488	On thermo-viscoelastic experimental characterization and numerical modelling of VHB polymer. <i>International Journal of Non-Linear Mechanics</i> , 2020 , 118, 103263	2.8	37
487	Phenomenological modelling of self-healing polymers based on integrated healing agents. <i>Computational Mechanics</i> , 2013 , 52, 681-692	4	36
486	A finite strain framework for the simulation of polymer curing. Part II. Viscoelasticity and shrinkage. <i>Computational Mechanics</i> , 2010 , 46, 363-375	4	36
485	A framework for geometrically nonlinear continuum damage mechanics. <i>International Journal of Engineering Science</i> , 1998 , 36, 1793-1814	5.7	36
484	Natural element analysis of the Cahn-Hilliard phase-field model. <i>Computational Mechanics</i> , 2010 , 46, 471-493	4	35
483	Towards the algorithmic treatment of 3D strong discontinuities. <i>Communications in Numerical Methods in Engineering</i> , 2006 , 23, 97-108		35
482	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	2.4	35
481	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	5.7	34
480	Towards a thermo-magneto-mechanical coupling framework for magneto-rheological elastomers. <i>International Journal of Solids and Structures</i> , 2017 , 128, 117-132	3.1	34
479	Time-dependent fibre reorientation of transversely isotropic continua Finite element formulation and consistent linearization. <i>International Journal for Numerical Methods in Engineering</i> , 2008 , 73, 1413-1443	2.4	34
478	A DAE Approach to Flexible Multibody Dynamics. <i>Multibody System Dynamics</i> , 2002 , 8, 365-389	2.8	34

477	A fictitious energy approach for shape optimization. <i>International Journal for Numerical Methods in Engineering</i> , 2010 , 82, 269-302	2.4	33
476	On the C1 continuous discretization of non-linear gradient elasticity: A comparison of NEM and FEM based on Bernstein-Bézier patches. <i>International Journal for Numerical Methods in Engineering</i> , 2010 , 82, 1282-1307	2.4	33
475	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	5.7	33
474	Molecular dynamics study of ferroelectric domain nucleation and domain switching dynamics. <i>Scientific Reports</i> , 2017 , 7, 806	4.9	32
473	Numerical modelling of thermomechanical solids with mechanically energetic (generalised) Kapitza interfaces. <i>Computational Materials Science</i> , 2012 , 65, 542-551	3.2	32
472	Classification of Concepts in Thermodynamically Consistent Generalized Plasticity. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 156-170	2.4	32
471	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	5.7	32
470	Secondary instabilities modulate cortical complexity in the mammalian brain. <i>Philosophical Magazine</i> , 2015 , 95, 3244-3256	1.6	31
469	Multiscale modelling for composites with energetic interfaces at the micro- or nanoscale. <i>Mathematics and Mechanics of Solids</i> , 2015 , 20, 1130-1145	2.3	31
468	Continuum-kinematics-inspired peridynamics. Mechanical problems. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 131, 125-146	5	31
467	On 3-D coupled BEM-BEM simulation of nonlinear electro-elastostatics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012 , 201-204, 82-90	5.7	31
466	Computational homogenization of material layers with micromorphic mesostructure. <i>Philosophical Magazine</i> , 2008 , 88, 3603-3631	1.6	31
465	Theoretical and computational aspects of non-classical thermoelasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006 , 196, 516-527	5.7	31
464	Application of the material force method to isotropic continuum damage. <i>Computational Mechanics</i> , 2003 , 30, 171-184	4	31
463	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	2.4	31
462	Wrinkling instabilities in soft bilayered systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	30
461	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	3.7	30
460	Energy-conserving integration of constrained Hamiltonian systems – a comparison of approaches. <i>Computational Mechanics</i> , 2004 , 33, 174-185	4	30

459	Towards optimization of crack resistance of composite materials by adjustment of fiber shapes. <i>Engineering Fracture Mechanics</i> , 2011 , 78, 944-960	4.2	29
458	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		29
457	Numerical modeling of thermo-electro-viscoelasticity with field-dependent material parameters. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 106, 13-24	2.8	29
456	On some mixed variational principles in magneto-elastostatics. <i>International Journal of Non-Linear Mechanics</i> , 2013 , 51, 157-169	2.8	28
455	Simulation of fracture in heterogeneous elastic materials with cohesive zone models. <i>International Journal of Fracture</i> , 2011 , 168, 15-29	2.3	28
454	Anisotropic damage with the MCR effect coupled to plasticity. <i>International Journal of Engineering Science</i> , 2003 , 41, 1535-1551	5.7	28
453	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	5.7	27
452	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	3.1	27
451	On the propagation of second-sound in linear and nonlinear media: Results from Green-Naghdi theory. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 4418-4424	2.3	27
450	Material forces in open system mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 2357-2381	5.7	27
449	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		27
448	Experimental and numerical investigations of the electro-viscoelastic behavior of VHB 4905TM. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 77, 103797	3.7	26
447	Geometrical Foundations of Continuum Mechanics. <i>Lecture Notes in Applied Mathematics and Mechanics</i> , 2015 ,		26
446	Relationships between the admissible range of surface material parameters and stability of linearly elastic bodies. <i>Philosophical Magazine</i> , 2012 , 92, 3540-3563	1.6	26
445	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	3.4	26
444	On material interfaces in thermomechanical solids. <i>Archive of Applied Mechanics</i> , 2005 , 75, 31-41	2.2	26
443	A view on anisotropic finite hyper-elasticity. <i>European Journal of Mechanics, A/Solids</i> , 2003 , 22, 71-87	3.7	25
442	Performance of enhanced finite element formulations in localized failure computations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 1991 , 90, 845-867	5.7	25

441	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	3.4	24
440	Modeling and simulation of first and second sound in solids. <i>International Journal of Solids and Structures</i> , 2008 , 45, 6067-6073	3.1	24
439	On rate-dependent dissipation effects in electro-elasticity. <i>International Journal of Non-Linear Mechanics</i> , 2014 , 62, 1-11	2.8	23
438	On some mixed variational principles in electro-elastostatics. <i>International Journal of Non-Linear Mechanics</i> , 2012 , 47, 341-354	2.8	23
437	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	3.1	23
436	Finite element analysis of an inelastic interface in ultrasonic welded metal/fibre-reinforced polymer joints. <i>Computational Materials Science</i> , 2010 , 50, 184-190	3.2	23
435	Mechanics of extended continua: modeling and simulation of elastic microstretch materials. <i>Computational Mechanics</i> , 2007 , 40, 651-666	4	23
434	Computational homogenization of nano-materials accounting for size effects via surface elasticity. <i>GAMM Mitteilungen</i> , 2015 , 38, 285-312	1.8	22
433	Material and Spatial Motion Problems in Nonlinear Electro- and Magneto-elastostatics. <i>Mathematics and Mechanics of Solids</i> , 2010 , 15, 239-257	2.3	22
432	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	3.9	22
431	Classical results for a non-classical theory: remarks on thermodynamic relations in Green-Naghdi thermo-hyperelasticity. <i>Continuum Mechanics and Thermodynamics</i> , 2007 , 19, 59-66	3.5	22
430	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	4	22
429	On the Comparison of Two Strategies to Formulate Orthotropic Hyperelasticity. <i>Journal of Elasticity</i> , 2001 , 62, 171-201	1.5	22
428	A numerical study of different projection-based model reduction techniques applied to computational homogenisation. <i>Computational Mechanics</i> , 2017 , 60, 613-625	4	21
427	Modified SFEM for computational homogenization of heterogeneous materials with microstructural geometric uncertainties. <i>Computational Mechanics</i> , 2016 , 57, 123-147	4	21
426	Generalized parameter identification for finite viscoelasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2007 , 196, 3315-3334	5.7	21
425	On configurational forces in multiplicative elastoplasticity. <i>International Journal of Solids and Structures</i> , 2007 , 44, 4442-4471	3.1	21
424	Degree of cure-dependent modelling for polymer curing processes at small-strain. Part I: consistent reformulation. <i>Computational Mechanics</i> , 2014 , 53, 777-787	4	20

4 ²³	A novel strategy to identify the critical conditions for growth-induced instabilities. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 29, 20-32	4.1	20
4 ²²	Modelling and computation of curing and damage of thermosets. <i>Computational Materials Science</i> , 2012 , 53, 359-367	3.2	20
4 ²¹	On local tracking algorithms for the simulation of three-dimensional discontinuities. <i>Computational Mechanics</i> , 2008 , 42, 395-406	4	20
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