

Michael Kaliske

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291
papers

3,470
citations

29
h-index

46
g-index

312
ext. papers

4,141
ext. citations

2.4
avg, IF

6.18
L-index

#	Paper	IF	Citations
291	Formulation and implementation of three-dimensional viscoelasticity at small and finite strains. <i>Computational Mechanics</i> , 1997 , 19, 228-239	4	211
290	An Extended Tube-Model for Rubber Elasticity: Statistical-Mechanical Theory and Finite Element Implementation. <i>Rubber Chemistry and Technology</i> , 1999 , 72, 602-632	1.7	170
289	A formulation of elasticity and viscoelasticity for fibre reinforced material at small and finite strains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000 , 185, 225-243	5.7	102
288	Theoretical and numerical formulation of a molecular based constitutive tube-model of rubber elasticity. <i>Computational and Theoretical Polymer Science</i> , 1997 , 7, 227-241		83
287	Models for numerical failure analysis of wooden structures. <i>Engineering Structures</i> , 2009 , 31, 571-579	4.7	77
286	A phase-field crack model based on directional stress decomposition. <i>Computational Mechanics</i> , 2019 , 63, 1019-1046	4	64
285	Bergström-Boyer model for nonlinear finite rubber viscoelasticity: theoretical aspects and algorithmic treatment for the FE method. <i>Computational Mechanics</i> , 2009 , 44, 809-823	4	60
284	A fully implicit finite element method for bidomain models of cardiac electromechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013 , 253, 323-336	5.7	56
283	A micro-continuum-mechanical material model for failure of rubber-like materials: Application to ageing-induced fracturing. <i>Journal of the Mechanics and Physics of Solids</i> , 2009 , 57, 1340-1356	5	55
282	Recurrent Neural Networks for Uncertain Time-Dependent Structural Behavior. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2010 , 25, 322-323	8.4	51
281	On damage modelling for elastic and viscoelastic materials at large strain. <i>Computers and Structures</i> , 2001 , 79, 2133-2141	4.5	50
280	Constitutive approach to rate-independent properties of filled elastomers. <i>International Journal of Solids and Structures</i> , 1998 , 35, 2057-2071	3.1	49
279	An efficient viscoelastic formulation for steady-state rolling structures. <i>Computational Mechanics</i> , 1998 , 22, 395-403	4	49
278	Thermo-mechanically coupled investigation of steady state rolling tires by numerical simulation and experiment. <i>International Journal of Non-Linear Mechanics</i> , 2015 , 68, 101-131	2.8	43
277	On the finite element implementation of rubber-like materials at finite strains. <i>Engineering Computations</i> , 1997 , 14, 216-232	1.4	41
276	Three-dimensional numerical analyses of load-bearing behavior and failure of multiple double-shear dowel-type connections in timber engineering. <i>Computers and Structures</i> , 2010 , 88, 165-177	4.5	40
275	Time-dependent cohesive zone modelling for discrete fracture simulation. <i>Engineering Fracture Mechanics</i> , 2010 , 77, 153-169	4.2	35

274	A gradient enhanced plasticity damage microplane model for concrete. <i>Computational Mechanics</i> , 2018 , 62, 1239-1257	4	34
273	Material forces for inelastic models at large strains: application to fracture mechanics. <i>Computational Mechanics</i> , 2007 , 40, 1005-1013	4	34
272	Numerical characterisation of uncured elastomers by a neural network based approach. <i>Computers and Structures</i> , 2017 , 182, 504-525	4.5	33
271	Analysis of dynamical processes under consideration of polymorphic uncertainty. <i>Structural Safety</i> , 2015 , 52, 194-201	4.9	33
270	An implicit gradient formulation for microplane Drucker-Prager plasticity. <i>International Journal of Plasticity</i> , 2016 , 83, 252-272	7.6	33
269	Structural Analysis with Fuzzy Data and Neural Network Based Material Description. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2012 , 27, 640-654	8.4	33
268	Recurrent neural networks for fuzzy data. <i>Integrated Computer-Aided Engineering</i> , 2011 , 18, 265-280	5.2	32
267	Comparison of approaches to model viscoelasticity based on fractional time derivatives. <i>Computational Materials Science</i> , 2015 , 98, 287-296	3.2	31
266	Regularization of microplane damage models using an implicit gradient enhancement. <i>International Journal of Solids and Structures</i> , 2014 , 51, 3480-3489	3.1	31
265	Transient multi-field anisotropic hygro-mechanical analysis of wood. <i>Computers and Structures</i> , 2018 , 197, 12-27	4.5	30
264	A thermomechanically coupled viscoelastic cohesive zone model at large deformation. <i>International Journal of Solids and Structures</i> , 2013 , 50, 4279-4291	3.1	29
263	An endochronic plasticity formulation for filled rubber. <i>International Journal of Solids and Structures</i> , 2010 , 47, 2371-2379	3.1	29
262	Crack propagation in pneumatic tires: Continuum mechanics and fracture mechanics approaches. <i>International Journal of Fatigue</i> , 2012 , 37, 69-78	5	28
261	Simulation of cracks in wood using a coupled material model for interface elements. <i>Holzforschung</i> , 2007 , 61, 382-389	2	28
260	A ductile phase-field model based on degrading the fracture toughness: Theory and implementation at small strain. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 366, 113068	5.7	28
259	A physically and geometrically nonlinear scaled-boundary-based finite element formulation for fracture in elastomers. <i>International Journal for Numerical Methods in Engineering</i> , 2014 , 99, 966-999	2.4	27
258	A fully implicit finite element method for bidomain models of cardiac electrophysiology. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012 , 15, 645-56	2.1	27
257	Mechanical characterization of wood: An integrative approach ranging from nanoscale to structure. <i>Computers and Structures</i> , 2013 , 127, 53-67	4.5	27

256	The concept of representative crack elements for phase-field fracture: Anisotropic elasticity and thermo-elasticity. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 779-805	2.4	27
255	On the relation between phase-field crack approximation and gradient damage modelling. <i>Computational Mechanics</i> , 2017 , 59, 717-735	4	26
254	Locking Front Model for pull-out behaviour of PVA microfibre embedded in cementitious matrix. <i>Cement and Concrete Composites</i> , 2019 , 103, 318-330	8.6	26
253	An orthotropic viscoelastic material model for passive myocardium: theory and algorithmic treatment. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015 , 18, 1160-1172	2.1	26
252	A constitutive model for finite deformation of amorphous polymers. <i>International Journal of Mechanical Sciences</i> , 2012 , 65, 48-63	5.5	26
251	Lifetime prediction using accelerated test data and neural networks. <i>Computers and Structures</i> , 2009 , 87, 1187-1194	4.5	26
250	Discrete crack path prediction by an adaptive cohesive crack model. <i>Engineering Fracture Mechanics</i> , 2010 , 77, 3541-3557	4.2	26
249	Damping characterization of unidirectional fibre reinforced polymer composites. <i>Composites Part B: Engineering</i> , 1995 , 5, 551-567		26
248	Zur dreidimensionalen Materialmodellierung von Fichtenholz mittels eines Mehrflächchen-Plastizitätsmodells. <i>European Journal of Wood and Wood Products</i> , 2006 , 64, 393-402	2.1	24
247	THERMO-MECHANICAL ANALYSIS OF CYCLICALLY LOADED PARTICLE-REINFORCED ELASTOMER COMPONENTS: EXPERIMENT AND FINITE ELEMENT SIMULATION. <i>Rubber Chemistry and Technology</i> , 2016 , 89, 154-176	1.7	23
246	A comparative study of the r-adaptive material force approach and the phase-field method in dynamic fracture. <i>International Journal of Fracture</i> , 2016 , 201, 97-118	2.3	23
245	A hybrid interface-element for the simulation of moisture-induced cracks in wood. <i>Engineering Fracture Mechanics</i> , 2013 , 102, 32-50	4.2	23
244	Solutions to problems with imprecise data: An engineering perspective to generalized uncertainty models. <i>Mechanical Systems and Signal Processing</i> , 2013 , 37, 105-120	7.8	23
243	Numerical simulation of the ductile failure of mechanically and moisture loaded wooden structures. <i>Computers and Structures</i> , 2011 , 89, 2460-2470	4.5	23
242	Peel process simulation of sealed polymeric film computational modelling of experimental results. <i>Engineering Computations</i> , 2007 , 24, 586-607	1.4	23
241	Fracture simulation of viscoelastic polymers by the phase-field method. <i>Computational Mechanics</i> , 2020 , 65, 293-309	4	23
240	Numerical modelling of tyre-pavement interaction phenomena: coupled structural investigations. <i>Road Materials and Pavement Design</i> , 2016 , 17, 563-578	2.6	22
239	Formulation and implementation of a constitutive model for semicrystalline polymers. <i>International Journal of Plasticity</i> , 2014 , 61, 128-156	7.6	22

238	Evaluation of energy contributions in elasto-plastic fracture: A review of the configurational force approach. <i>Engineering Fracture Mechanics</i> , 2014 , 115, 137-153	4.2	22
237	A fuzzy-probabilistic durability concept for strain-hardening cement-based composites (SHCCs) exposed to chlorides. <i>Cement and Concrete Composites</i> , 2012 , 34, 754-762	8.6	22
236	Thermo-mechanical finite element prediction of the structural long-term response of asphalt pavements subjected to periodic traffic load: Tire-pavement interaction and rutting. <i>Computers and Structures</i> , 2019 , 218, 9-31	4.5	21
235	Description of inhomogeneities in wooden structures: modelling of branches. <i>Wood Science and Technology</i> , 2013 , 47, 1051-1070	2.5	21
234	Investigations on the physical and mechanical behaviour of sycamore maple (<i>Acer pseudoplatanus</i> L.). <i>European Journal of Wood and Wood Products</i> , 2013 , 71, 91-99	2.1	21
233	Finite element analysis of timber containing branches – An approach to model the grain course and the influence on the structural behaviour. <i>Engineering Structures</i> , 2014 , 75, 237-247	4.7	21
232	Evaluation and simulation of the peel behavior of polyethylene/polybutene-1 peel systems. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 363-370	2.9	21
231	A thermomechanical interface element formulation for finite deformations. <i>Computational Mechanics</i> , 2013 , 52, 1039-1058	4	20
230	Numerical simulation of pavement structures with inelastic material behaviour under rolling tyres based on an arbitrary Lagrangian Eulerian (ALE) formulation. <i>Road Materials and Pavement Design</i> , 2013 , 14, 71-89	2.6	20
229	Hygro-mechanically coupled modelling of creep in wooden structures, Part I: Mechanics. <i>International Journal of Solids and Structures</i> , 2015 , 77, 28-44	3.1	19
228	Static and dynamic tensile shear test of glued lap wooden joint with four different types of adhesives. <i>Holzforschung</i> , 2017 , 71, 391-396	2	18
227	Hygro-mechanically coupled modelling of creep in wooden structures, Part II: Influence of moisture content. <i>International Journal of Solids and Structures</i> , 2015 , 77, 45-64	3.1	18
226	A continuum mechanical approach to model asphalt. <i>International Journal of Pavement Engineering</i> , 2015 , 16, 105-124	2.6	18
225	Micro-sphere based viscoplastic constitutive model for uncured green rubber. <i>International Journal of Solids and Structures</i> , 2018 , 132-133, 201-217	3.1	18
224	Prediction of time-dependent structural behaviour with recurrent neural networks for fuzzy data. <i>Computers and Structures</i> , 2011 , 89, 1971-1981	4.5	18
223	A Material Model for Simulating the Hysteretic Behavior of Filled Rubber for Rolling Tires. <i>Tire Science and Technology</i> , 1998 , 26, 132-148	0.7	18
222	Numerical modelling of wooden structures. <i>Journal of Cultural Heritage</i> , 2017 , 27, S93-S102	2.9	17
221	A configurational force approach to model the branching phenomenon in dynamic brittle fracture. <i>Engineering Fracture Mechanics</i> , 2016 , 157, 26-42	4.2	17

220	Structural design with polymorphic uncertainty models. <i>International Journal of Reliability and Safety</i> , 2015 , 9, 112	0.9	17
219	A multi-objective optimization approach with consideration of fuzzy variables applied to structural tire design. <i>Computers and Structures</i> , 2013 , 116, 7-19	4.5	17
218	Characterisation of moisture-dependent plasticity of beech wood and its application to a multi-surface plasticity model. <i>Holzforschung</i> , 2012 , 66,	2	17
217	A Biomimetic Fish Fin-Like Robot Based on Textile Reinforced Silicone. <i>Micromachines</i> , 2020 , 11,	3.3	16
216	Computational cardiology: A modified Hill model to describe the electro-visco-elasticity of the myocardium. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 315, 434-466	5.7	16
215	Experimental Characterization and Constitutive Modeling of the Mechanical Properties of Uncured Rubber. <i>Rubber Chemistry and Technology</i> , 2010 , 83, 1-15	1.7	16
214	Formulation and implementation of strain rate-dependent fracture toughness in context of the phase-field method. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 233-255	2.4	16
213	Hygro-mechanical numerical investigations of a wooden panel painting from Katharinenaltar by Lucas Cranach the Elder. <i>Journal of Cultural Heritage</i> , 2018 , 29, 1-9	2.9	15
212	Stochastic modelling of uncertainty in timber engineering. <i>Engineering Structures</i> , 2015 , 99, 296-310	4.7	15
211	A material description based on recurrent neural networks for fuzzy data and its application within the finite element method. <i>Computers and Structures</i> , 2013 , 124, 29-37	4.5	14
210	Holistic Analysis of the Coupled Vehicle-Tire-Pavement System for the Design of Durable Pavements. <i>Tire Science and Technology</i> , 2015 , 43, 86-116	0.7	14
209	DNN2: A hyper-parameter reinforcement learning game for self-design of neural network based elasto-plastic constitutive descriptions. <i>Computers and Structures</i> , 2021 , 249, 106505	4.5	14
208	Numerical modeling of inelastic structures at loading of steady state rolling. <i>Computational Mechanics</i> , 2016 , 57, 867-886	4	14
207	A thermomechanical interface description and its application to yarn pullout tests. <i>International Journal of Solids and Structures</i> , 2015 , 69-70, 531-543	3.1	13
206	An anisotropic phase-field model based on the equivalent crack surface energy density at finite strain. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 369, 113202	5.7	13
205	Numerical modeling of thermal aging in steady state rolling tires. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 103, 145-153	2.8	13
204	Numerical analysis and design of double-shear dowel-type connections of wood. <i>Engineering Structures</i> , 2012 , 41, 234-241	4.7	13
203	Eigenerosion for static and dynamic brittle fracture. <i>Engineering Fracture Mechanics</i> , 2017 , 182, 537-551	4.2	13

202	A comparative study of micro-mechanical models for fiber pullout behavior of reinforced high performance concrete. <i>Engineering Fracture Mechanics</i> , 2021 , 243, 107506	4.2	13
201	Numerical modeling of time- and temperature-dependent strain-induced crystallization in rubber. <i>International Journal of Solids and Structures</i> , 2018 , 141-142, 15-34	3.1	12
200	An implicit adaptive node-splitting algorithm to assess the failure mechanism of inelastic elastomeric continua. <i>International Journal for Numerical Methods in Engineering</i> , 2014 , 100, 669-688	2.4	12
199	Fatigue Investigation of Elastomeric Structures. <i>Tire Science and Technology</i> , 2010 , 38, 194-212	0.7	12
198	Numerical determination of hysteresis friction on different length scales and comparison to experiments. <i>Tribology International</i> , 2018 , 127, 165-176	4.9	12
197	Numerical optimization of wear performance [Utilizing a metamodel based friction law. <i>Computers and Structures</i> , 2016 , 165, 10-23	4.5	11
196	VISCOELASTIC LINEAR AND NONLINEAR ANALYSIS OF STEADY STATE ROLLING RUBBER WHEELS: A COMPARISON. <i>Rubber Chemistry and Technology</i> , 2016 , 89, 499-525	1.7	10
195	Modeling of impact on concrete plates by use of the microplane approach. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 80, 107-121	2.8	10
194	Estimating shear properties of walnut wood: a combined experimental and theoretical approach. <i>Materials and Structures/Materiaux Et Constructions</i> , 2017 , 50, 1	3.4	10
193	Numerical modelling of tyre-pavement-interaction phenomena: constitutive description of asphalt behaviour based on triaxial material tests. <i>Road Materials and Pavement Design</i> , 2015 , 16, 133-153	2.6	10
192	Computational approach towards structural investigations for the restoration of historical keyboard instruments. <i>Journal of Cultural Heritage</i> , 2012 , 13, S165-S174	2.9	10
191	Coupling of microstructural and macrostructural computational approaches for asphalt pavements under rolling tire load. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020 , 35, 1178-1193	8.4	10
190	Dynamische Eigenschaften von Beton im Experiment und in der Simulation. <i>Beton- Und Stahlbetonbau</i> , 2016 , 111, 41-50	1	10
189	Enhanced uncertain structural analysis with time- and spatial-dependent (functional) fuzzy results. <i>Mechanical Systems and Signal Processing</i> , 2019 , 119, 23-38	7.8	10
188	A thermodynamically consistent framework to couple damage and plasticity microplane-based formulations for fracture modeling: development and algorithmic treatment. <i>International Journal of Fracture</i> , 2017 , 203, 115-134	2.3	9
187	A viscoelastic-viscoplastic-damage model for creep and recovery of a semicrystalline thermoplastic. <i>International Journal of Solids and Structures</i> , 2017 , 110-111, 340-350	3.1	9
186	A novel approach to computational homogenization and its application to fully coupled two-scale thermomechanics. <i>Computational Mechanics</i> , 2016 , 58, 769-796	4	9
185	Analysis of stable crack propagation in filled rubber based on a global energy balance. <i>International Journal of Fracture</i> , 2013 , 181, 13-23	2.3	9

184	PREDICTION OF ROLLING RESISTANCE FOR TRUCK BUS RADIAL TIRES WITH NANOCOMPOSITE BASED TREAD COMPOUNDS USING FINITE ELEMENT SIMULATION. <i>Rubber Chemistry and Technology</i> , 2014 , 87, 276-290	1.7	9
183	An extended tube model for thermo-viscoelasticity of rubber like materials 2011 , 87-92		9
182	Fracture mechanical behaviour of visco-elastic materials: application to the so-called dwell-effect. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2009 , 89, 677-686	1	9
181	Modeling of Surface Drainage during the Service Life of Asphalt Pavements Showing Long-Term Rutting: A Modular Hydromechanical Approach. <i>Advances in Materials Science and Engineering</i> , 2020 , 2020, 1-15	1.5	9
180	Viscoelastic phase-field fracture using the framework of representative crack elements. <i>International Journal of Fracture</i> , 1	2.3	9
179	A hierarchical sequential ALE poromechanics model for tire-soil-water interaction on fluid-infiltrated roads. <i>International Journal for Numerical Methods in Engineering</i> , 2017 , 112, 909-938	2.4	8
178	Characterization of fracture processes by continuum and discrete modelling. <i>Computational Mechanics</i> , 2012 , 50, 303-320	4	8
177	Modelling of microstructural void evolution with configurational forces. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2009 , 89, 698-708	1	8
176	Multiscale Simulation to Determine Rubber Friction on Asphalt Surfaces. <i>Tire Science and Technology</i> , 2016 , 44, 226-247	0.7	8
175	Finite Element Based Analysis of Reinforcing Cords in Rolling Tires: Influence of Mechanical and Thermal Cord Properties on Tire Response. <i>Tire Science and Technology</i> , 2018 , 46, 294-327	0.7	8
174	A thermo-mechanical finite element material model for the rubber forming and vulcanization process: From unvulcanized to vulcanized rubber. <i>International Journal of Solids and Structures</i> , 2020 , 185-186, 365-379	3.1	8
173	Assessment and design of an engineering structure with polymorphic uncertainty quantification. <i>GAMM Mitteilungen</i> , 2019 , 42, e201900009	1.8	7
172	Circumventing mesh bias by r- and h-adaptive techniques for variational eigenfracture. <i>International Journal of Fracture</i> , 2019 , 220, 129	2.3	7
171	Numerical simulation of wooden structures with polymorphic uncertainty in material properties. <i>International Journal of Reliability and Safety</i> , 2018 , 12, 24	0.9	7
170	Complex step derivative approximation of consistent tangent operators for viscoelasticity based on fractional calculus. <i>Computational Mechanics</i> , 2015 , 56, 1055-1071	4	7
169	Numerical simulation of coupled heat and mass transfer in wood dried at high temperature. <i>Heat and Mass Transfer</i> , 2011 , 47, 351-358	2.2	7
168	An extended tube model for thermo-viscoelasticity of rubberlike materials: Parameter identification and examples. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011 , 11, 353-354	0.2	7
167	Variational eigenfracture for rate-dependent plasticity in concrete modeling at small strain. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 1388-1409	2.4	7

166	Finite thermo-elastic decoupled two-scale analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 355-392	2.4	7
165	Finite element modeling of electro-viscoelasticity in fiber reinforced electro-active polymers. <i>International Journal for Numerical Methods in Engineering</i> , 2021 , 122, 2005-2037	2.4	7
164	Development of fuzzy probability based random fields for the numerical structural design. <i>GAMM Mitteilungen</i> , 2019 , 42, e201900004	1.8	6
163	Modelling of fibre-reinforced composites via fibre super-elements. <i>Theoretical and Applied Fracture Mechanics</i> , 2019 , 103, 102294	3.7	6
162	Macroscopical Modeling and Numerical Simulation for the Characterization of Crack and Durability Properties of Particle-Reinforced Elastomers. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2013 , 167-226	0.3	6
161	Fully Coupled Cardiac Electromechanics with Orthotropic Viscoelastic Effects. <i>Procedia IUTAM</i> , 2015 , 12, 124-133		6
160	Inelastic Fracture Mechanics for Tire Durability Simulations ⁴ . <i>Tire Science and Technology</i> , 2007 , 35, 239-250		6
159	The Extended Non-affine Tube Model for Crosslinked Polymer Networks: Physical Basics, Implementation, and Application to Thermomechanical Finite Element Analyses. <i>Advances in Polymer Science</i> , 2016 , 1-70	1.3	6
158	Numerical investigation of inelastic and temperature dependent layered asphalt pavements at loading by rolling tyres. <i>International Journal of Pavement Engineering</i> , 2021 , 22, 97-117	2.6	6
157	Computational cardiology: the bidomain based modified Hill model incorporating viscous effects for cardiac defibrillation. <i>Computational Mechanics</i> , 2018 , 62, 253-271	4	6
156	A coupled approach of optimization, uncertainty analysis and configurational mechanics for a fail-safe design of structures. <i>International Journal for Numerical Methods in Engineering</i> , 2017 , 109, 125-152	2.4	5
155	A thermo-mechanical material model for rubber curing and tire manufacturing simulation. <i>Computational Mechanics</i> , 2020 , 66, 513-535	4	5
154	On configurational forces in hyperelastic materials under shock and impact. <i>Computational Mechanics</i> , 2011 , 47, 93-104	4	5
153	The concept of Representative Crack Elements (RCE) for phase-field fracture: transient thermo-mechanics. <i>Computational Mechanics</i> , 2011 , 47, 93-104	4	5
152	Lifetime Prediction of Tires with Regard to Oxidative Aging ⁵ . <i>Tire Science and Technology</i> , 2008 , 36, 63-70	0.7	5
151	Optimized and Robust Design of Tires Based on Numerical Simulation. <i>Tire Science and Technology</i> , 2013 , 41, 21-39	0.7	5
150	A Consistent Implementation of Inelastic Material Models into Steady State Rolling. <i>Tire Science and Technology</i> , 2016 , 44, 174-190	0.7	5
149	On the computational modelling of nonlinear electro-elasticity in heterogeneous bodies at finite deformations. <i>Mechanics of Soft Materials</i> , 2021 , 3, 1	2.1	5

148	Hygro-mechanical investigations of clavichord replica at cyclic climate load: Experiments and simulations. <i>Journal of Cultural Heritage</i> , 2019 , 36, 210-221	2.9	5
147	A continuum mechanical model for asphalt based on the particle size distribution: Numerical formulation for large deformations and experimental validation. <i>Mechanics of Materials</i> , 2021 , 153, 103703	7.3	5
146	A numerical study on the effects of spatial and temporal discretization in cardiac electrophysiology. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021 , 37, e3443	2.6	5
145	Simulation of failure in timber with structural inhomogeneities using an automated FE analysis. <i>Computers and Structures</i> , 2018 , 207, 19-36	4.5	5
144	Hygro-mechanical analysis of wood-adhesive joints. <i>Engineering Structures</i> , 2019 , 193, 258-270	4.7	4
143	Finite strain extension of a gradient enhanced microplane damage model for concrete at static and dynamic loading. <i>Engineering Fracture Mechanics</i> , 2019 , 216, 106501	4.2	4
142	Understanding fracture of a carbon black filled rubber compound using material force theory. <i>Theoretical and Applied Fracture Mechanics</i> , 2020 , 108, 102649	3.7	4
141	Homogenisation by cylindrical RVEs with twisted-periodic boundary conditions for hybrid-yarn reinforced elastomers. <i>International Journal of Solids and Structures</i> , 2018 , 139-140, 283-301	3.1	4
140	A consistent viscoelastic formulation for the numerical analysis of steady state rolling tires. <i>International Journal of Plasticity</i> , 2018 , 101, 24-41	7.6	4
139	Phase-field fracture incorporating cohesive adhesion failure mechanisms within the Representative Crack Element framework. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 392, 114664	5.7	4
138	Computational Models for Wooden Structures. <i>Computational Technology Reviews</i> , 2010 , 2, 145-176		4
137	An orthotropic multi-surface damage-plasticity FE-formulation for wood: Part I – Constitutive model. <i>Computers and Structures</i> , 2020 , 240, 106350	4.5	4
136	Towards predictive computer simulations in cardiology: Finite element analysis of personalized heart models. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2018 , 98, 2155-2176	1	4
135	An XFEM-approach to model brittle failure of wood. <i>Engineering Structures</i> , 2020 , 212, 110236	4.7	3
134	Theoretical-numerical Approaches to Simulate Fracture in Polymeric Materials 2014 , 3, 2065-2070		3
133	Thermoplastics under Long-Term Loading: Experiments and Viscoelastic-Viscoplastic Modeling. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2015 , 15, 375-376	0.2	3
132	Computation of energy dissipation in visco-elastic materials at finite deformation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2013 , 13, 159-160	0.2	3
131	A three-field, bi-domain based approach to the strongly coupled electromechanics of the heart. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011 , 11, 931-934	0.2	3

130	An Approach to the Modeling of Physical Ageing in Rubbery Polymers. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2006 , 6, 363-364	0.2	3
129	Neural Network Approaches in Structural Analysis considering Imprecision and Variability. <i>Computational Science, Engineering and Technology Series</i> , 59-85		3
128	Evaluation of Crack-Driving Forces at Finite Viscoelasticity: Theory and Experiment. <i>IUTAM Symposium on Cellular, Molecular and Tissue Mechanics</i> , 2009 , 193-202	0.3	3
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