Bernd Markert

List of Publications by Year
in descending order

310 papers	5,277 citations	100601 38 h-index	150775 59 g-index
324 all docs	324 docs citations	324 times ranked	4416 citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study and numerical modeling of the thermo-hydro-mechanical processes in soil freezing with different frost penetration directions. Acta Geotechnica, 2022, 17, 231-255.	2.9	31
2	Molecular dynamics simulation of interface atomic diffusion in ultrasonic metal welding. International Journal of Advanced Manufacturing Technology, 2022, 118, 2339-2353.	1.5	6
3	Monitoring and tracking of a suspension railway based on data-driven methods applied to inertial measurements. Mechanical Systems and Signal Processing, 2022, 164, 108298.	4.4	8
4	Thermal conductivity of glass fiber-reinforced silica aerogels using molecular dynamics simulations. Ceramics International, 2022, 48, 2250-2256.	2.3	20
5	Motion preservation surgery for scoliosis with a vertebral body tethering system: a biomechanical study. European Spine Journal, 2022, 31, 1013-1021.	1.0	12
6	Residual stresses in gas tungsten arc welding: a novel phase-field thermo-elastoplasticity modeling and parameter treatment framework. Computational Mechanics, 2022, 69, 565-587.	2.2	9
7	Modelling and simulation of coupled fluid transport and time-dependent fracture in fibre-reinforced hydrogel composites. Computer Methods in Applied Mechanics and Engineering, 2022, 390, 114470.	3.4	7
8	Training Data Selection for Machine Learning-Enhanced Monte Carlo Simulations in Structural Dynamics. Applied Sciences (Switzerland), 2022, 12, 581.	1.3	7
9	Smart stiffness computation of one-dimensional Finite Elements. Mechanics Research Communications, 2022, 119, 103817.	1.0	10
10	Explainable Artificial Intelligence for Mechanics: Physics-Explaining Neural Networks for Constitutive Models. Frontiers in Materials, 2022, 8, .	1.2	13
11	Self-organized criticality in fracture models at different scales. Examples and Counterexamples, 2022, 2, 100054.	0.3	6
12	Mechanical Properties of Dragline Silk Fiber Using a Bottom-Up Approach. Journal of Composites Science, 2022, 6, 95.	1.4	2
13	Non-incremental response evaluation in geometrically nonlinear structural dynamics using a space-time stiffness operator. Computational Mechanics, 2022, 70, 309-333.	2.2	3
14	A Study of the Mechanical Response of Nonwovens Excited by Plate Vibration. Applied Mechanics, 2022, 3, 496-516.	0.7	3
15	Intelligent stiffness computation for plate and beam structures by neural network enhanced finite element analysis. International Journal for Numerical Methods in Engineering, 2022, 123, 4001-4031.	1.5	8
16	Computational modelling of poro-visco-hyperelastic effects on time-dependent fatigue crack growth of hydrogels. International Journal of Plasticity, 2022, 155, 103307.	4.1	10
17	The effects of tether pretension within vertebral body tethering on the biomechanics of the spine: a Finite Element analysis. Latin American Journal of Solids and Structures, 2022, 19, .	0.6	3
18	Multi-axial fatigue life assessment of additively manufactured nickel-based superalloys. International Journal of Fatigue, 2022, 163, 107049.	2.8	5

#	ARTICLE	IF	CITATIONS
19	Mechanical modeling and simulation of aerogels: A review. Ceramics International, 2021, 47, 2981-2998.	2.3	31
20	Automated identification of the coefficient of restitution via bouncing ball measurement. Archive of Applied Mechanics, 2021, 91, 47-60.	1.2	3
21	Constructing the Hamiltonian from the Behaviour of a Dynamical System by Proper Symplectic Decomposition. Lecture Notes in Computer Science, 2021, , 439-447.	1.0	0
22	A Newmark space–time approach in structural mechanics. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000304.	0.2	2
23	A Semi-Automated DEM Parameter Calibration Technique of Powders Based on Different Bulk Responses Extracted from Auger Dosing Experiments. KONA Powder and Particle Journal, 2021, 38, 235-250.	0.9	8
24	The Effect of Functionally–Graded Voids and GNPs on the Damage Tolerance of Polyurethane Foam Core. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000082.	0.2	1
25	A machine learning enhanced structural response prediction strategy due to seismic excitation. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000294.	0.2	5
26	A thermomechanical–phase–field approach for modeling of residual stresses in fusion welding. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000131.	0.2	0
27	A lattice Boltzmann study on the effect of fluid viscosity contrast on the retention behavior of two–fluid flow in porous media. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000150.	0.2	0
28	Machine–learning–enhanced tail end prediction of structural response statistics in earthquake engineering. Earthquake Engineering and Structural Dynamics, 2021, 50, 2098-2114.	2.5	27
29	A Newmark space-time formulation in structural dynamics. Computational Mechanics, 2021, 67, 1331-1348.	2.2	7
30	Shockwave response of graphene aerogels: An all-atom simulation study. Computational Materials Science, 2021, 189, 110252.	1.4	13
31	An All-Atom Simulation Study of Gas Detonation Forming Technique. Metals, 2021, 11, 611.	1.0	0
32	Design of a vertical Loss-in-Weight feeder prototype with experimental proof of concept validation. Pharmaceutical Development and Technology, 2021, 26, 559-575.	1.1	2
33	A Monte Carlo Simulation Approach in Non-linear Structural Dynamics Using Convolutional Neural Networks. Frontiers in Built Environment, 2021, 7, .	1.2	9
34	Connecting structural defects to tensile failure in a 3D-printed fully-amorphous bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 813, 141106.	2.6	20
35	Designing of an Advanced Compression Bioreactor with an Implementation of a Low-Cost Controlling System Connected to a Mobile Application. Processes, 2021, 9, 915.	1.3	5
36	A Comparison of Three Neural Network Approaches for Estimating Joint Angles and Moments from Inertial Measurement Units. Sensors, 2021, 21, 4535.	2.1	43

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37	Identification of acoustic emission sources for structural health monitoring applications based on convolutional neural networks and deep transfer learning. Neurocomputing, 2021, 453, 1-12.	3.5	37
38	Development of convolutional neural networks for recognition of tenogenic differentiation based on cellular morphology. Computer Methods and Programs in Biomedicine, 2021, 208, 106279.	2.6	9
39	A non-incremental numerical method for dynamic elastoplastic problems by the symplectic Brezis–Ekeland–Nayroles principle. Computer Methods in Applied Mechanics and Engineering, 2021, 384, 113908.	3.4	3
40	Data-driven classification of elementary rearrangement events in silica glass. Scripta Materialia, 2021, 205, 114179.	2.6	8
41	Thermomechanical phase–field fracture modeling of fluid–saturated porous media. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000332.	0.2	2
42	Numerical study of shear bands formation in a 3D–printed Zr–based bulk metallic glass under uniaxial loading. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000107.	0.2	1
43	On the Poisson's ratio of an amorphous 2D network material. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000318.	0.2	2
44	An artificial intelligence approach to model nonlinear continua by intelligent meta–elements. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000300.	0.2	1
45	Advancements in multi–phase unsaturated porous media fracture. Proceedings in Applied Mathematics and Mechanics, 2021, 20, e202000223.	0.2	0
46	A multivariate regression parametric study on DEM input parameters of free-flowing and cohesive powders with experimental data-based validation. Computational Particle Mechanics, 2021, 8, 87-111.	1.5	12
47	Biomechanical in Vitro and Finite Element Study On Different Sagittal Alignment Postures of the Lumbar Spine During Multiaxial Daily Motion. Journal of Biomechanical Engineering, 2021, , .	0.6	2
48	A comparison of two neural network architectures for fast structural response prediction. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	2
49	Workflow concepts to model nonlinear mechanics with computational intelligence. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	2
50	Structural design of additively manufactured porous Zr–based bulk metallic glass. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	2
51	Numerical investigation of the Poisson's ratio of an amorphous bilayer 2D network material. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	1
52	Cryosuction–induced fracturing in multiphase porous materials: Numerical modeling and experimental validation. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	0
53	A non–incremental solution procedure for elastoplastic problems in structural mechanics. Proceedings in Applied Mathematics and Mechanics, 2021, 21, .	0.2	0
54	Modeling of PCM-based enhanced latent heat storage systems using a phase-field-porous media approach. Continuum Mechanics and Thermodynamics, 2020, 32, 861-882.	1.4	22

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55	Biomechanical In Vitro Test of a Novel Dynamic Spinal Stabilization System Incorporating Polycarbonate Urethane Material Under Physiological Conditions. Journal of Biomechanical Engineering, 2020, 142, .	0.6	8
56	Mechanical properties and behavior of glass fiber-reinforced silica aerogel nanocomposites: Insights from all-atom simulations. Scripta Materialia, 2020, 177, 65-68.	2.6	35
57	A biphasic visco-hyperelastic damage model for articular cartilage: application to micromechanical modelling of the osteoarthritis-induced degradation behaviour. Biomechanics and Modeling in Mechanobiology, 2020, 19, 1055-1077.	1.4	9
58	Elementary plastic events in a Zachariasen glass under shear and pressure. Materialia, 2020, 9, 100556.	1.3	18
59	Stoneâ€"Wales defect interaction in quasistatically deformed 2D silica. Journal of Materials Science, 2020, 55, 3470-3483.	1.7	12
60	Prediction of lower limb joint angles and moments during gait using artificial neural networks. Medical and Biological Engineering and Computing, 2020, 58, 211-225.	1.6	73
61	Prediction of ground reaction force and joint moments based on optical motion capture data during gait. Medical Engineering and Physics, 2020, 86, 29-34.	0.8	27
62	Frequency-related viscoelastic properties of the human incisor periodontal ligament under dynamic compressive loading. PLoS ONE, 2020, 15, e0235822.	1.1	11
63	Molecular Dynamics Simulation Study of the Mechanical Properties of Nanocrystalline Body-Centered Cubic Iron. Surfaces, 2020, 3, 381-391.	1.0	5
64	A multivariate statistical approach to analyze the impact of material attributes and process parameters on the quality performance of an auger dosing process. Journal of Drug Delivery Science and Technology, 2020, 60, 101950.	1.4	4
65	Ultrasonic weld strength and weld microstructure characteristics in multi-strand aluminum cables (EN AW-1370) â€" Effect of process parameters. Journal of Manufacturing Processes, 2020, 57, 893-904.	2.8	10
66	Origin of reversible and irreversible atomic-scale rearrangements in a model two-dimensional network glass. Physical Review E, 2020, 102, 033006.	0.8	12
67	Structural health monitoring of an adhesively bonded CFRP aircraft fuselage by ultrasonic Lamb Waves. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 2000-2010.	0.7	16
68	Artificial Neural Networks in Motion Analysisâ€"Applications of Unsupervised and Heuristic Feature Selection Techniques. Sensors, 2020, 20, 4581.	2.1	22
69	A unified water/ice kinematics approach for phase-field thermo-hydro-mechanical modeling of frost action in porous media. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113358.	3.4	33
70	An intelligent nonlinear meta element for elastoplastic continua: deep learning using a new Time-distributed Residual U-Net architecture. Computer Methods in Applied Mechanics and Engineering, 2020, 366, 113088.	3.4	39
71	Molecular Investigation of Mechanical Properties and Fracture Behavior of Graphene Aerogel. Journal of Physical Chemistry B, 2020, 124, 6132-6139.	1.2	29
72	Vitreous 2D silica under tension: From brittle to ductile behaviour. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 780, 139189.	2.6	16

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73	Artificial neural networks in structural dynamics: A new modular radial basis function approach vs. convolutional and feedforward topologies. Computer Methods in Applied Mechanics and Engineering, 2020, 364, 112989.	3.4	47
74	Upscaling LBM-TPM simulation approach of Darcy and non-Darcy fluid flow in deformable, heterogeneous porous media. International Journal of Heat and Fluid Flow, 2020, 83, 108566.	1.1	20
75	Quasistatic analysis of elastoplastic structures by the proper generalized decomposition in a space-time approach. Mechanics Research Communications, 2020, 104, 103500.	1.0	9
76	Deep convolutional neural networks in structural dynamics under consideration of viscoplastic material behaviour. Mechanics Research Communications, 2020, 108, 103565.	1.0	24
77	3D pore structure characterization and hardness in a powder bed fusion-processed fully amorphous Zr-based bulk metallic glass. Materials Characterization, 2020, 162, 110178.	1.9	28
78	Validation of two hybrid approaches for clustering age-related groups based on gait kinematics data. Medical Engineering and Physics, 2020, 78, 90-97.	0.8	5
79	Estimation of Gait Mechanics Based on Simulated and Measured IMU Data Using an Artificial Neural Network. Frontiers in Bioengineering and Biotechnology, 2020, 8, 41.	2.0	92
80	Molecular dynamics simulations of silica aerogel nanocomposites reinforced by glass fibers, graphene sheets and carbon nanotubes: A comparison study on mechanical properties. Composites Part B: Engineering, 2020, 190, 107884.	5.9	48
81	Adaptive predictive systems applied to gait analysis: A systematic review. Gait and Posture, 2020, 77, 75-82.	0.6	28
82	Continuous Zachariasen carbon monolayers under tensile deformation: Insights from molecular dynamics simulations. Extreme Mechanics Letters, 2020, 38, 100744.	2.0	6
83	Active source localization in wave guides based on machine learning. Ultrasonics, 2020, 106, 106144.	2.1	26
84	Mechanical Properties of Nacre-Like Composites: A Bottom-Up Approach. Journal of Composites Science, 2020, 4, 35.	1.4	13
85	Mechanik 4.0. KÃ¼nstliche Intelligenz zur Analyse mechanischer Systeme. , 2020, , 553-567.		2
86	Effects of porosity on the mechanical properties of additively manufactured components: a critical review. Materials Research Express, 2020, 7, 122001.	0.8	146
87	Lebenswissenschaften 4.0Ââ€" Sensorik und maschinelles Lernen in der Bewegungsanalyse. , 2020, , 1077-1093.		0
88	Recognition of tenogenic differentiation using convolutional neural network. Current Directions in Biomedical Engineering, 2020, 6, 200-204.	0.2	4
89	Title is missing!. , 2020, 15, e0235822.		0
90	Title is missing!. , 2020, 15, e0235822.		0

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91	Title is missing!. , 2020, 15, e0235822.		0
92	Title is missing!. , 2020, 15, e0235822.		0
93	An efficient Monte Carlo strategy for elasto-plastic structures based on recurrent neural networks. Acta Mechanica, 2019, 230, 3279-3293.	1.1	39
94	A visco-elastoplastic pounding damage formulation. Engineering Structures, 2019, 197, 109373.	2.6	6
95	Chondrocyte colonisation of a tissue-engineered cartilage substitute under a mechanical stimulus. Medical Engineering and Physics, 2019, 74, 58-64.	0.8	9
96	Walking with rollator: a systematic review of gait parameters in older persons. European Review of Aging and Physical Activity, 2019, 16, 15.	1.3	26
97	Intelligent prediction of kinetic parameters during cutting manoeuvres. Medical and Biological Engineering and Computing, 2019, 57, 1833-1841.	1.6	17
98	Representation of micro-structural evolution and thermo-mechanical damage in thermal shocked oxide/oxide ceramic matrix composites. International Journal of Fatigue, 2019, 126, 122-129.	2.8	22
99	Molecular dynamics investigation of the shock response of silica aerogels. Materialia, 2019, 6, 100315.	1.3	14
100	Athermal mechanical analysis of Stone-Wales defects in two-dimensional silica. Computational Materials Science, 2019, 163, 301-307.	1.4	18
101	Detection of terminal oscillation pattern in ultrasonic metal welding. Journal of Manufacturing Processes, 2019, 41, 159-167.	2.8	16
102	Fretting wear modelling incorporating cyclic ratcheting deformations and the debris evolution for Ti-6Al-4V. Tribology International, 2019, 136, 317-331.	3.0	12
103	Neural network based constitutive modeling of nonlinear viscoplastic structural response. Mechanics Research Communications, 2019, 95, 85-88.	1.0	44
104	Biomechanical testing of a polycarbonate-urethane-based dynamic instrumentation system under physiological conditions. Clinical Biomechanics, 2019, 61, 112-119.	0.5	10
105	Modelling silica bilayers based on experimental data. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900475.	0.2	1
106	On the fracture behavior of vitreous two‐dimensional silica. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900460.	0.2	0
107	Phase field modelling of stress assisted corrosion of biodegradable magnesium alloys. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900442.	0.2	1
108	A damage detection study of a bridge using bypassing vehicles and computational intelligence. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900301.	0.2	0

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109	Artificial neural networks in structural dynamics. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900128.	0.2	0
110	Experimental Study on Cell-free Approach for Articular Cartilage Treatment. Current Directions in Biomedical Engineering, 2019, 5, 171-174.	0.2	2
111	Molecular dynamics simulation of ultrasonic metal welding of aluminum alloys. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900304.	0.2	5
112	Investigation of Sheet Metal Forming Using a Rapid Compression Machine. Materials, 2019, 12, 3957.	1.3	3
113	Assessment of the measurement accuracy of inertial sensors during different tasks of daily living. Journal of Biomechanics, 2019, 84, 81-86.	0.9	32
114	Molecular dynamics and experimental studies of nanoindentation on nanoporous silica aerogels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 344-352.	2.6	37
115	Tool wear monitoring of a retrofitted CNC milling machine using artificial neural networks. Manufacturing Letters, 2019, 19, 1-4.	1.1	92
116	Viscoelastic properties of human periodontal ligament: *Effects of the loading frequency and location*. Angle Orthodontist, 2019, 89, 480-487.	1.1	15
117	Phase-field-based modelling of the gelation process of biopolymer droplets in 3D bioprinting. Computational Mechanics, 2019, 63, 1187-1202.	2.2	12
118	Is bone-cement augmentation of screw-anchor fixation systems superior in unstable femoral neck fractures? A biomechanical cadaveric study. Injury, 2019, 50, 292-300.	0.7	10
119	Plasticity in vitreous silica induced by cyclic tension considering rate-dependence: Role of the network topology. Journal of Non-Crystalline Solids, 2019, 503-504, 176-181.	1.5	22
120	Stress response of 2D silica under quasi-static tension. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900467.	0.2	0
121	Validation of a thermo- and a hydromechanical model of a brake system for high-speed rail applications. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2018, 232, 2149-2162.	1.3	2
122	A novel nonlinear nano-scale wear law for metallic brake pads. Physical Chemistry Chemical Physics, 2018, 20, 12027-12036.	1.3	8
123	Efficient numerical modeling of 3D-printed lattice-cell structures using neural networks. Manufacturing Letters, 2018, 15, 147-150.	1.1	45
124	Assessment of the viscoelastic mechanical properties of polycarbonate urethane for medical devices. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 1-8.	1.5	9
125	The influence of the network topology on the deformation and fracture behaviour of silica glass: A molecular dynamics study. Computational Materials Science, 2018, 149, 162-169.	1.4	38
126	A new *in vitro* spine test rig to track multiple vertebral motions under physiological conditions. Biomedizinische Technik, 2018, 63, 341-347.	0.9	6

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127	Efficient solution of the multiple seismic pounding problem using hierarchical substructure techniques. Computational Mechanics, 2018, 62, 761-782.	2.2	14
128	A study of the damage behaviour of porcine intervertebral discs in a bioreactor environment. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 727-733.	1.5	3
129	Experimental study and discrete element simulation of auger dosing of different pharmaceutical powders. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800261.	0.2	4
130	The research of viscoelastic mechanical behaviour of human periodontal ligament based on stress–relaxation tests. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800423.	0.2	1
131	Deformation of Stacked Metallic Sheets by Shock Wave Loading. Metals, 2018, 8, 679.	1.0	8
132	Tensile testing of the mechanical behavior of the human periodontal ligament. BioMedical Engineering OnLine, 2018, 17, 172.	1.3	21
133	Bioreactor development for regenerative tissues of the locomotor system. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800108.	0.2	0
134	An intelligent meta–element for linear elastic continua. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800283.	0.2	9
135	On the reduced solution of the earthquake–induced pounding problem. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800187.	0.2	0
136	Investigation of Tenocyte Migration Behaviour by Application of the Mechanobiological Concepts. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800223.	0.2	0
137	A direct method for dissipative dynamical systems by using the symplectic Brezis–Ekeland–Nayroles principle. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800281.	0.2	0
138	A computational study on the cyclic softening and fatigue behaviour of medical PEEK. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800299.	0.2	0
139	An investigation on residual stresses in gas tungsten arc welding. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800304.	0.2	1
140	Finite element formulation of elastoplastic structures by using the symplectic Brezis–Ekeland–Nayroles principle. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800374.	0.2	0
141	The effect of the medium–range configuration on the atomistic fracture behaviour of vitreous silica. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800418.	0.2	0
142	Chondrocyte migration in an acellular tissue–engineered cartilage substitute. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800425.	0.2	2
143	Investigation of the network topology of vitreous silica during cyclic tensile loading. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800441.	0.2	3
144	Simulation of PCM–saturated porous solid matrix for thermal energy storage using the phase–field method. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800433.	0.2	1

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145	Guided wave‐based damage detection in solids using computational intelligence. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800296.	0.2	4
146	A thermo‐mechanical model of ultrasonic metal welding process with the focus on the mating interface. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800301.	0.2	0
147	Computational modelling of fretting wear of Ti‐6Al‐4V incorporating cyclic plastic deformations and the debris evolution. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800422.	0.2	0
148	The effect of the collagen fibrils network on the damage behaviour of articular cartilage: a computational study. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800428.	0.2	1
149	Computational study of the interaction between degradation of biodegradable magnesium implants and bone remodelling. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800431.	0.2	0
150	A coupled thermo‐poro‐mechanical model of the breast applied to breast cancer detection. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800460.	0.2	0
151	Effect of process parameters on the interface temperature in ultrasonic aluminum wire bonding. Journal of Manufacturing Processes, 2018, 36, 104-114.	2.8	21
152	Effects of uniaxial stretching on tenocyte migration behaviour. Current Directions in Biomedical Engineering, 2018, 4, 313-317.	0.2	3
153	Modeling of hydraulic fracturing using a porous-media phase-field approach with reference to experimental data. Engineering Fracture Mechanics, 2018, 202, 116-134.	2.0	50
154	A diffusive dynamic brittle fracture model for heterogeneous solids and porous materials with implementation using a user-element subroutine. Computational Materials Science, 2018, 153, 36-47.	1.4	40
155	Artificial neural networks and intelligent finite elements in non-linear structural mechanics. Thin-Walled Structures, 2018, 131, 102-106.	2.7	71
156	A nonlinear visco‐elastoplastic model for structural pounding. Earthquake Engineering and Structural Dynamics, 2018, 47, 2490-2495.	2.5	14
157	A Structural Pounding Formulation Using Systematic Modal Truncation. Shock and Vibration, 2018, 2018, 1-15.	0.3	5
158	Numerical simulation of the tissue differentiation and corrosion process of biodegradable magnesium implants during bone fracture healing. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2018, 98, 2223-2238.	0.9	11
159	A novel approach to calibrate the Drucker–Prager Cap model for Al7075 powder. Archive of Applied Mechanics, 2018, 88, 1859-1876.	1.2	9
160	Fracture of silica aerogels: An all-atom simulation study. Journal of Non-Crystalline Solids, 2018, 498, 125-129.	1.5	31
161	A coupled ductile fracture phase-field model for crystal plasticity. Continuum Mechanics and Thermodynamics, 2017, 29, 1017-1026.	1.4	13
162	A new monolithic Newton‐multigrid‐based FEM solution scheme for large strain dynamic poroelasticity problems. International Journal for Numerical Methods in Engineering, 2017, 109, 1103-1129.	1.5	14

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163	Analytical Homogenization for Dynamic Analysis of Composite Membranes with Circular Inclusions in Hexagonal Lattice Structures. International Journal of Structural Stability and Dynamics, 2017, 17, 1740015.	1.5	6
164	Multiaxial fatigue life assessment of sintered porous iron under proportional and non-proportional loadings. International Journal of Fatigue, 2017, 97, 214-226.	2.8	47
165	Mechanics of Nanostructured Porous Silica Aerogel Resulting from Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2017, 121, 5660-5668.	1.2	68
166	Biomechanical testing of a PEEK-based dynamic instrumentation device in a lumbar spine model. Clinical Biomechanics, 2017, 44, 67-74.	0.5	16
167	A comparative study of mechanical properties of fresh and frozen-thawed porcine intervertebral discs in a bioreactor environment. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 69, 169-177.	1.5	12
168	Towards bioreactor development with physiological motion control and its applications. Medical Engineering and Physics, 2017, 39, 106-112.	0.8	18
169	Stress-induced long-range ordering in spider silk. Scientific Reports, 2017, 7, 15273.	1.6	7
170	A systematic review of gait analysis methods based on inertial sensors and adaptive algorithms. Gait and Posture, 2017, 57, 204-210.	0.6	211
171	Influence of geometric and physical nonlinearities on the internal resonances of a finite continuous rod with a microstructure. Journal of Sound and Vibration, 2017, 386, 359-371.	2.1	7
172	A phase-field modeling approach of hydraulic fracture in saturated porous media. Mechanics Research Communications, 2017, 80, 38-46.	1.0	136
173	Mechanobiological processes of tissue engineered cartilage replacement materials. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 211-212.	0.2	0
174	Molecular dynamics simulations of the cooling rate influence on the tensile strength of silica glass. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 235-236.	0.2	7
175	A machine-learning approach to load-monitoring based on guided waves. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 307-308.	0.2	1
176	Thermomechanical measurement of a brake disc. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 327-328.	0.2	0
177	Modelling of cyclic deformation behaviour of railway disc brakes under thermomechanical loading. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 491-492.	0.2	1
178	Neural network representation of a phase-field model for brittle fracture. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 253-254.	0.2	12
179	Assessment of the high-cycle fatigue performance of a PEEK-based spinal dynamic instrumentation using numerical simulation and experimental data. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 181-182.	0.2	1
180	Modelling of hydraulic fracturing and fluid flow change in saturated porous domains. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 95-98.	0.2	5

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181	Modelling of the gelation process of biopolymers using the phase-field method. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 103-106.	0.2	0
182	Experimental and numerical study of glass fracture using J-integral and phase-field modelling approaches. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 255-256.	0.2	0
183	Multiscale simulation of fracture of coated silica nanoparticles reinforced composites. Proceedings in Applied Mathematics and Mechanics, 2017, 17, 257-258.	0.2	1
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