

Peter Wriggers

List of Publications by Year in descending order

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528
papers

16,851
citations

13709

66
h-index

30064

101
g-index

550
all docs

550
docs citations

550
times ranked

6795
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic fracture investigation of concrete by a rate-dependent explicit phase field model integrating viscoelasticity and micro-viscosity. Computer Methods in Applied Mechanics and Engineering, 2024, 418, 116540.	6.7	7
2	Virtual Elements for Problems in Dynamics. , 2024, , 185-207.		0
3	Virtual Elements for Elasticity Problems. , 2024, , 117-183.		0
4	Virtual Elements for Fracture Processes. , 2024, , 243-315.		0
5	Virtual Element Formulation for Contact. , 2024, , 317-367.		0
6	Introduction. , 2024, , 1-20.		0
7	Continuum Mechanics Background. , 2024, , 21-40.		0
8	VEM Ansatz Functions and Projection for the Poisson Equation. , 2024, , 87-95.		0
9	VEM Ansatz Functions and Projection for Solids. , 2024, , 41-85.		0
10	Virtual Elements for Computational Homogenization of Polycrystalline Materials. , 2024, , 369-393.		0
11	Virtual Element Formulation for Finite Plasticity. , 2024, , 209-224.		0
12	Virtual Elements for Thermo-mechanical Problems. , 2024, , 225-242.		0
13	Construction of the Virtual Element. , 2024, , 97-115.		0
14	Virtual Elements for Beams and Plates. , 2024, , 395-441.		0
15	Numerical strategy for solving general C^1 -continuous beam-to-beam contact problems. International Journal for Numerical Methods in Engineering, 2024, 125, .	2.8	0
16	3D concrete fracture simulations using an explicit phase field model. International Journal of Mechanical Sciences, 2024, 265, 108907.	6.8	5
17	3D stabilization-free virtual element method for linear elastic analysis. Computer Methods in Applied Mechanics and Engineering, 2024, 421, 116826.	6.7	4
18	Investigation on fracture behaviour of UHPFRC using a mesoscale computational framework. Computer Methods in Applied Mechanics and Engineering, 2024, 421, 116796.	6.7	3

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19	A general phase-field model for simulating impact-sliding contact failure. International Journal of Mechanical Sciences, 2024, 273, 109215.	6.8	0
20	High-order 3D virtual element method for linear and nonlinear elasticity. Computer Methods in Applied Mechanics and Engineering, 2024, 431, 117258.	6.7	0
21	A novel semi-explicit numerical algorithm for efficient 3D phase field modelling of quasi-brittle fracture. Computer Methods in Applied Mechanics and Engineering, 2024, 432, 117416.	6.7	0
22	Test of an Idea for Improving the Efficiency of Nonlinear Time History Analyses When Implemented in Seismic Analysis According to NZS 1170.5:2004. Mechanisms and Machine Science, 2023, , 107-114.	0.0	1
23	Virtual Elements for computational anisotropic crystal plasticity. Computer Methods in Applied Mechanics and Engineering, 2023, 405, 115835.	6.7	5
24	Arterial tissues and their inflammatory response to collagen damage: A continuum in silico model coupling nonlinear mechanics, molecular pathways, and cell behavior. Computers in Biology and Medicine, 2023, 158, 106811.	7.2	8
25	A locking free virtual element formulation for Timoshenko beams. Computer Methods in Applied Mechanics and Engineering, 2023, 417, 116234.	6.7	3
26	Stabilization-free virtual element method for finite strain applications. Computer Methods in Applied Mechanics and Engineering, 2023, 417, 116555.	6.7	11
27	A multiscale DEM-FEM coupled approach for the investigation of granules as crash-absorber in ship building. Computational Particle Mechanics, 2022, 9, 179-197.	3.0	6
28	Discrete element model for general polyhedra. Computational Particle Mechanics, 2022, 9, 353-380.	3.0	9
29	Membrane mode enhanced cohesive zone element. Engineering Computations, 2022, 39, 722-743.	1.5	3
30	Influence of Moisture Content and Wet Environment on the Fatigue Behaviour of High-Strength Concrete. Materials, 2022, 15, 1025.	3.0	17
31	A sharp-interface model for diffusional evolution of precipitates in visco-plastic materials. Computer Methods in Applied Mechanics and Engineering, 2022, 391, 114440.	6.7	1
32	Computational Homogenization Using Convolutional Neural Networks. , 2022, , 569-579.		2
33	Phase-Field Modeling of Fatigue Crack Propagation in Brittle Materials. , 2022, , 15-22.		2
34	Effect of pore size on tissue ingrowth and osteoconductivity in biodegradable Mg alloy scaffolds. Journal of Applied Biomaterials and Functional Materials, 2022, 20, 228080002210781.	1.7	5
35	Adaptive Virtual Element Method for Large-Strain Phase-Field Fracture. , 2022, , 195-206.		0
36	On two simple virtual Kirchhoff-Love plate elements for isotropic and anisotropic materials. Computational Mechanics, 2022, 69, 615-637.	3.9	7

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37	On a virtual element formulation for trusses and beams. <i>Archive of Applied Mechanics</i> , 2022, 92, 1655-1678.	2.2	3
38	Atomic stick-slip friction as a two-dimensional thermally activated process. <i>Physical Review B</i> , 2022, 105, .	3.3	2
39	Bayesian Inversion with Open-Source Codes for Various One-Dimensional Model Problems in Computational Mechanics. <i>Archives of Computational Methods in Engineering</i> , 2022, 29, 4285-4318.	10.6	18
40	Peridynamic Galerkin method: an attractive alternative to finite elements. <i>Computational Mechanics</i> , 2022, 70, 723-743.	3.9	4
41	A curing model for the numerical simulation within additive manufacturing of soft polymers using peridynamics. <i>Computational Particle Mechanics</i> , 2021, 8, 369-388.	3.0	15
42	A consistent peridynamic formulation for arbitrary particle distributions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 374, 113605.	6.7	7
43	A coverâ€based contact detection approach for irregular convex polygons in discontinuous deformation analysis. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 208-233.	3.3	27
44	A Selection of Benchmark Problems in Solid Mechanics and Applied Mathematics. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 713-751.	10.6	41
45	The Virtual Element Method for the numerical homogenization of electroâ€mechanical responses. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, .	0.2	0
46	3D Virtual Elements for Elastodynamic Problems. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000175.	0.2	1
47	Vision: Digitale Zwillinge f¼r die Additive Fertigung. , 2021, , 77-100.		0
48	Modeling of Singleâ€slip Finite Strain Crystal Plasticity via the Virtual Element Method. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, .	0.2	2
49	Material modeling of ferritic steel on microscopic length scale under cyclic loading. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021, 20, e202000326.	0.2	0
50	A design concept of active cooling for tailored forming workpieces during induction heating. <i>Production Engineering</i> , 2021, 15, 177-186.	2.2	2
51	Computational model of damage-induced growth in soft biological tissues considering the mechanobiology of healing. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1297-1315.	2.9	13
52	A general phase-field model for fatigue failure in brittle and ductile solids. <i>Computational Mechanics</i> , 2021, 67, 1431-1452.	3.9	73
53	Biocompatibility and degradation of the open-pored magnesium scaffolds LAE442 and La2. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 035037.	3.4	7
54	3D mixed virtual element formulation for dynamic elasto-plastic analysis. <i>Computational Mechanics</i> , 2021, 68, 1-18.	3.9	13

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55	NURBS-based geometries: A mapping approach for virtual serendipity elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 378, 113732.	6.7	17
56	Biomechanical Effects of a Cross Connector in Sacral Fractures – A Finite Element Analysis. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 669321.	4.1	8
57	Mechano-chemo-biological Computational Models for Arteries in Health, Disease and Healing: From Tissue Remodelling to Drug-eluting Devices. <i>Current Pharmaceutical Design</i> , 2021, 27, 1904-1917.	1.8	3
58	A matrix-free isogeometric Galerkin method for Karhunen–Loève approximation of random fields using tensor product splines, tensor contraction and interpolation based quadrature. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 379, 113730.	6.7	14
59	Feed-Forward Neural Networks for Failure Mechanics Problems. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6483.	2.6	40
60	Electro-magneto-mechanically response of polycrystalline materials: Computational homogenization via the Virtual Element Method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 380, 113775.	6.7	12
61	Trends in computational material modeling. <i>Computational Mechanics</i> , 2021, 68, 459-459.	3.9	0
62	Mathematical Modeling and Numerical Simulation of Atherosclerosis Based on a Novel Surgeon’s View. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 4263-4282.	10.6	7
63	Chemo-mechanical modelling of swelling and crosslinking reaction kinetics in alginate hydrogels: A novel theory and its numerical implementation. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 153, 104476.	4.9	27
64	Bayesian inversion for unified ductile phase-field fracture. <i>Computational Mechanics</i> , 2021, 68, 943-980.	3.9	27
65	Comparison of discontinuous damage models of Mullins-type. <i>Archive of Applied Mechanics</i> , 2021, 91, 4097-4119.	2.2	8
66	Model-data-driven constitutive responses: Application to a multiscale computational framework. <i>International Journal of Engineering Science</i> , 2021, 167, 103522.	5.0	39
67	Finite element solution for static and dynamic interactions of cylindrical rigid objects and unsaturated granular soils. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 384, 113974.	6.7	15
68	A Taylor–Hood type virtual element formulations for large incompressible strains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 385, 114021.	6.7	10
69	Contact between rigid convex NURBS particles based on computer graphics concepts. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 386, 114097.	6.7	16
70	Flexible polyhedra modeled by the virtual element method in a discrete element context. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 387, 114163.	6.7	7
71	Multilevel global–local techniques for adaptive ductile phase-field fracture. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 387, 114175.	6.7	32
72	Loading equine oocytes with cryoprotective agents captured with a finite element method model. <i>Scientific Reports</i> , 2021, 11, 19812.	3.4	3

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73	Virtual Element Formulation for Finite Strain Elastodynamics. CMES - Computer Modeling in Engineering and Sciences, 2021, 129, 1151-1180.	1.2	7
74	A simulation model for the degradation of magnesium-based bone implants. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 101, 103411.	3.1	22
75	The analyses of dynamic response and reliability for failure-dependent stochastic micro-resonator with thermoelastic coupling effects. Applied Mathematical Modelling, 2020, 77, 1168-1187.	4.3	5
76	Peridynamic Petrovâ€Galerkin method: A generalization of the peridynamic theory of correspondence materials. Computer Methods in Applied Mechanics and Engineering, 2020, 358, 112636.	6.7	27
77	The dynamic analysis of stochastic thin-walled structures under thermalâ€structuralâ€acoustic coupling. Computational Mechanics, 2020, 65, 609-634.	3.9	7
78	Free surface tension in incompressible smoothed particle hydrodynamics (ISPH). Computational Mechanics, 2020, 65, 487-502.	3.9	16
79	Porous-ductile fracture in thermo-elasto-plastic solids with contact applications. Computational Mechanics, 2020, 65, 941-966.	3.9	15
80	3D orientation data â€ A comparison of diffraction contrast tomography and serial sectioning electron backscatter diffraction for the nickel-base superalloy IN738LC. Materials Letters, 2020, 262, 127177.	2.7	2
81	Phase-field modeling of porous-ductile fracture in non-linear thermo-elasto-plastic solids. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112730.	6.7	79
82	Accidental exposure to Burkholderia pseudomallei: awareness is also needed for urine specimens. Clinical Microbiology and Infection, 2020, 26, 265-266.	6.4	0
83	Generating virtual process maps of SLM using powder-scale SPH simulations. Computational Particle Mechanics, 2020, 7, 655-677.	3.0	48
84	A novel stress-induced anisotropic growth model driven by nutrient diffusion: Theory, FEM implementation and applications in bio-mechanical problems. Journal of the Mechanics and Physics of Solids, 2020, 144, 104097.	4.9	17
85	A combined adaptive phase field and discrete cutting method for the prediction of crack paths. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113329.	6.7	25
86	Influence of coatings on degradation and osseointegration of open porous Mg scaffolds in vivo. Materialia, 2020, 14, 100949.	2.8	12
87	Numerical investigations regarding a novel process chain for the production of a hybrid bearing bushing. Production Engineering, 2020, 14, 569-581.	2.2	5
88	A Review on Cementitious Self-Healing and the Potential of Phase-Field Methods for Modeling Crack-Closing and Fracture Recovery. Materials, 2020, 13, 5265.	3.0	23
89	Master-master frictional contact and applications for beam-shell interaction. Computational Mechanics, 2020, 66, 1213-1235.	3.9	18
90	A virtual element formulation for general element shapes. Computational Mechanics, 2020, 66, 963-977.	3.9	19

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91	Curvilinear virtual elements for contact mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113394.	6.7	36
92	Applying Membrane Mode Enhanced Cohesive Zone Elements on Tailored Forming Components. <i>Metals</i> , 2020, 10, 1333.	2.4	3
93	Virtual Element Method for Cross-Wedge Rolling during Tailored Forming Processes. <i>Procedia Manufacturing</i> , 2020, 47, 713-718.	2.0	5
94	The neural particle method "An updated Lagrangian physics informed neural network for computational fluid dynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 368, 113127.	6.7	78
95	A fatigue damage accumulation model for reliability analysis of engine components under combined cycle loadings. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 1880-1892.	3.3	44
96	Nearly-constrained transversely isotropic linear elasticity: energetically consistent anisotropic deformation modes for mixed finite element formulations. <i>International Journal of Solids and Structures</i> , 2020, 202, 166-183.	2.7	5
97	Mixed peridynamic formulations for compressible and incompressible finite deformations. <i>Computational Mechanics</i> , 2020, 65, 1365-1376.	3.9	12
98	Comparison of two pore sizes of LAE442 scaffolds and their effect on degradation and osseointegration behavior in the rabbit model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 2776-2788.	3.7	10
99	Magnesium Alloys for Open-Pored Bioresorbable Implants. <i>Jom</i> , 2020, 72, 1859-1869.	2.2	16
100	Investigation of degraded bone substitutes made of magnesium alloy using scanning electron microscope and nanoindentation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 109, 103825.	3.1	7
101	Numerical method for solution of pointwise contact between surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 365, 112971.	6.7	13
102	A machine learning based plasticity model using proper orthogonal decomposition. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 365, 113008.	6.7	110
103	Efficient modeling of filled rubber assuming stress-induced microscopic restructurization. <i>International Journal of Engineering Science</i> , 2020, 151, 103291.	5.0	29
104	Wasserinduzierte Schädigungsmechanismen zyklisch beanspruchter Hochleistungsbetone/Water-induced damage mechanisms of cyclically loaded High-performance concretes. <i>Bauingenieur</i> , 2020, 95, 126-132.	0.3	12
105	A Concept for the Extension of the Assumed Stress Finite Element Method to Hyperelasticity. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2020, , 107-126.	0.0	2
106	Application of Enhanced Peridynamic Correspondence Formulation for Three-Dimensional Simulations at Large Strains. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2020, , 81-104.	0.0	3
107	Treatment of Brittle Fracture in Solids with the Virtual Element Method. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2020, , 201-228.	0.0	2
108	Robust Contact and Friction Model for the Fatigue Estimate of a Wire Rope in the Mooring Line of a Floating Offshore Wind Turbine. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2020, , 249-270.	0.0	1

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109	A Multiscale Projection Method for the Analysis of Fiber Microbuckling in Fiber Reinforced Composites. Lecture Notes in Applied and Computational Mechanics, 2020, , 167-184.	0.0	1
110	Discrete Element Methods: Basics and Applications in Engineering. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2020, , 1-30.	0.0	2
111	A low order 3D virtual element formulation for finite elasto-elastic plastic deformations. Computational Mechanics, 2019, 63, 253-269.	3.9	55
112	Modelling tailored forming joining zones with internal thickness extrapolation elements. AIP Conference Proceedings, 2019, , .	0.2	0
113	A micro-thermo-mechanical model for a tailored formed joining zone deformed by die forging. AIP Conference Proceedings, 2019, , .	0.2	1
114	Serendipity virtual element formulation for nonlinear elasticity. Computers and Structures, 2019, 223, 106094.	4.5	33
115	Bulk material models in Cohesive Zone Elements for simulation of joining zones. Finite Elements in Analysis and Design, 2019, 164, 42-54.	3.2	8
116	An extension of assumed stress finite elements to a general hyperelastic framework. Advanced Modeling and Simulation in Engineering Sciences, 2019, 6, .	1.8	7
117	Low-order locking-free mixed finite element formulation with approximation of the minors of the deformation gradient. International Journal for Numerical Methods in Engineering, 2019, 120, 1011-1026.	2.8	5
118	Computational homogenization of polycrystalline materials with the Virtual Element Method. Computer Methods in Applied Mechanics and Engineering, 2019, 355, 349-372.	6.7	39
119	Experimental characterization and computational modeling of hydrogel cross-linking for bioprinting applications. International Journal of Artificial Organs, 2019, 42, 548-557.	1.4	21
120	VIRTUAL ELEMENT FORMULATION FOR PHASE-FIELD MODELING OF DUCTILE FRACTURE. International Journal for Multiscale Computational Engineering, 2019, 17, 181-200.	1.3	60
121	Comparison of degradation behaviour and osseointegration of the two magnesium scaffolds, LAE442 and La2, in vivo. Materialia, 2019, 8, 100436.	2.8	15
122	Processing and coating of open-pored absorbable magnesium-based bone implants. Materials Science and Engineering C, 2019, 98, 1073-1086.	7.5	42
123	A virtual element method for frictional contact including large deformations. Engineering Computations, 2019, 36, 2133-2161.	1.5	19
124	Virtual elements for finite thermo-plasticity problems. Computational Mechanics, 2019, 64, 1347-1360.	3.9	28
125	Molecular-level collagen damage explains softening and failure of arterial tissues: A quantitative interpretation of CHP data with a novel elasto-damage model. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 97, 254-271.	3.1	22
126	A computational framework for brittle crack-propagation based on efficient virtual element method. Finite Elements in Analysis and Design, 2019, 159, 15-32.	3.2	59

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127	Modeling of two-body abrasive wear of filled elastomers as a contact-induced fracture process. Tribology International, 2019, 138, 16-31.	6.0	10
128	Material models for the thermoplastic material behaviour of a dual-phase steel on a microscopic and a macroscopic length scale. Journal of the Mechanics and Physics of Solids, 2019, 129, 205-228.	4.9	4
129	Sensitivity analysis for the mechanics of tendons and ligaments: Investigation on the effects of collagen structural properties via a multiscale modeling approach. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3209.	2.2	24
130	Modelling of serrated chip formation processes using the stabilized optimal transportation meshfree method. International Journal of Mechanical Sciences, 2019, 155, 323-333.	6.8	15
131	Computing pointwise contact between bodies: a class of formulations based on master-master approach. Computational Mechanics, 2019, 64, 585-609.	3.9	19
132	Direct and inverse identification of constitutive parameters from the structure of soft tissues. Part 2: Dispersed arrangement of collagen fibers. Biomechanics and Modeling in Mechanobiology, 2019, 18, 897-920.	2.9	9
133	Computational modeling of hydrogel cross-linking based on reaction-diffusion theory. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900406.	0.2	1
134	Water-induced failure mechanics for concrete. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900140.	0.2	7
135	3D Dynamic Crack under Cyclic Loading using XFEM: Numerical Treatment. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900147.	0.2	0
136	A Computational Model for Biological Tissues Considering the Influence of Injury on Growth and Remodelling. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900259.	0.2	1
137	A series of Duffy-distance transformation for integrating 2D and 3D vertex singularities. International Journal for Numerical Methods in Engineering, 2019, 118, 38-60.	2.8	6
138	Micro-macro constitutive modeling and finite element analytical-based formulations for fibrous materials: A multiscale structural approach for crimped fibers. Computer Methods in Applied Mechanics and Engineering, 2019, 344, 938-969.	6.7	11
139	Red blood cell simulation using a coupled shell-fluid analysis purely based on the SPH method. Biomechanics and Modeling in Mechanobiology, 2019, 18, 347-359.	2.9	8
140	Investigation of heat source modeling for selective laser melting. Computational Mechanics, 2019, 63, 949-970.	3.9	40
141	Simulation-Aided Process Chain Design for the Manufacturing of Hybrid Shafts. HTM - Journal of Heat Treatment and Materials, 2019, 74, 115-135.	0.3	7
142	Berechnung von Risswachstum mittels der Methode der virtuellen Elemente/Modeling of Brittle Crack Propagation using the Virtual Element Method. Bauingenieur, 2019, 94, 147-154.	0.3	1
143	Nonlinear discontinuous Petrov-Galerkin methods. Numerische Mathematik, 2018, 139, 529-561.	1.8	11
144	Direct and inverse identification of constitutive parameters from the structure of soft tissues. Part 1: micro- and nanostructure of collagen fibers. Biomechanics and Modeling in Mechanobiology, 2018, 17, 1011-1036.	2.9	17

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145	Isogeometric frictionless contact analysis with the third medium method. <i>Computational Mechanics</i> , 2018, 62, 1009-1021.	3.9	16
146	A modified Gurson-type plasticity model at finite strains: formulation, numerical analysis and phase-field coupling. <i>Computational Mechanics</i> , 2018, 62, 815-833.	3.9	98
147	Virtual element formulation for isotropic damage. <i>Finite Elements in Analysis and Design</i> , 2018, 144, 38-48.	3.2	31
148	3D ductile crack propagation within a polycrystalline microstructure using XFEM. <i>Computational Mechanics</i> , 2018, 61, 71-88.	3.9	21
149	On the computational aspects of comminution in discrete element method. <i>Computational Particle Mechanics</i> , 2018, 5, 175-189.	3.0	16
150	Stabilization algorithm for the optimal transportation meshfree approximation scheme. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 329, 421-443.	6.7	24
151	Contact between spheres and general surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 328, 686-716.	6.7	14
152	Delamination onset and growth in composite shells. <i>Computers and Structures</i> , 2018, 195, 1-15.	4.5	6
153	Experimental and numerical characterization of expanded glass granules. <i>Computational Particle Mechanics</i> , 2018, 5, 297-312.	3.0	9
154	Efficient Low Order Virtual Elements for Anisotropic Materials at Finite Strains. <i>Computational Methods in Applied Sciences (Springer)</i> , 2018, , 417-434.	0.0	10
155	An advanced abrasion model for tire wear. <i>Wear</i> , 2018, 396-397, 75-85.	3.2	29
156	Finite and Virtual Element Formulations for Large Strain Anisotropic Material with Inextensive Fibers. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2018, , 205-231.	0.0	8
157	3D Dynamic Crack Propagation by the Extended Finite Element Method and a Gradient-Enhanced Damage Model. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2018, , 277-299.	0.0	7
158	Simulation of bone ingrowth into bone substitutes on implant level length scale. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800297.	0.2	0
159	A Virtual Element Method for Crack Propagation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800104.	0.2	10
160	Developing a model for the microscopic material behaviour of a tailored formed joining zone of an aluminium-steel hybrid solid component. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800329.	0.2	2
161	Examining errors and correction techniques for SPH. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800081.	0.2	0
162	Internal Thickness Extrapolation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018, 18, e201800391.	0.2	2

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163	Modelling and experimental testing of expanded granules as crash absorber for double hull ships. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800416.	0.2	1
164	Advanced Discretization Methods for Contact Mechanics. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2018, , 87-123.	0.0	1
165	Variational phase-field formulation of non-linear ductile fracture. Computer Methods in Applied Mechanics and Engineering, 2018, 342, 71-94.	6.7	103
166	Multiscale finite element analysis of uncertain-but-bounded heterogeneous materials at finite deformation. Finite Elements in Analysis and Design, 2018, 149, 15-31.	3.2	6
167	Phase-field modeling of brittle fracture using an efficient virtual element scheme. Computer Methods in Applied Mechanics and Engineering, 2018, 341, 443-466.	6.7	109
168	Metal particle fusion analysis for additive manufacturing using the stabilized optimal transportation meshfree method. Computer Methods in Applied Mechanics and Engineering, 2018, 339, 91-114.	6.7	34
169	Efficient integration of crack singularities in the extended finite element method: Duffy-distance transformation and conformal preconditioning strategy. Computer Methods in Applied Mechanics and Engineering, 2018, 340, 559-576.	6.7	28
170	Finite strain response of crimped fibers under uniaxial traction: An analytical approach applied to collagen. Journal of the Mechanics and Physics of Solids, 2017, 98, 429-453.	4.9	33
171	Strategies to Apply Soil Models Directly as Friction Laws in Soil Structure Interactions. Lecture Notes in Applied and Computational Mechanics, 2017, , 216-236.	0.0	1
172	Development of Sponge Structure and Casting Conditions for Absorbable Magnesium Bone Implants. Minerals, Metals and Materials Series, 2017, , 307-317.	0.0	6
173	A master-surface to master-surface formulation for beam to beam contact. Part II: Frictional interaction. Computer Methods in Applied Mechanics and Engineering, 2017, 319, 146-174.	6.7	34
174	Efficient virtual element formulations for compressible and incompressible finite deformations. Computational Mechanics, 2017, 60, 253-268.	3.9	125
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176	Isogeometric symmetric Galerkin boundary element method for three-dimensional elasticity problems. Computer Methods in Applied Mechanics and Engineering, 2017, 323, 132-150.	6.7	26
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