

# Peter Wriggers

## List of Publications by Year in Descending Order

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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.

491  
papers

12,530  
citations

59  
h-index

93  
g-index

525  
ext. papers

14,056  
ext. citations

3.1  
avg. IF

7.08  
L-index

#	Paper	IF	Citations
491	Influence of Moisture Content and Wet Environment on the Fatigue Behaviour of High-Strength Concrete.. <i>Materials</i> , <b>2022</b> , 15,	3.5	3
490	A sharp-interface model for diffusional evolution of precipitates in visco-plastic materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2022</b> , 391, 114440	5.7	0
489	Computational Homogenization Using Convolutional Neural Networks <b>2022</b> , 569-579		
488	Phase-Field Modeling of Fatigue Crack Propagation in Brittle Materials <b>2022</b> , 15-22		1
487	Effect of pore size on tissue ingrowth and osteoconductivity in biodegradable Mg alloy scaffolds.. <i>Journal of Applied Biomaterials and Functional Materials</i> , <b>2022</b> , 20, 22808000221078168	1.8	1
486	Adaptive Virtual Element Method for Large-Strain Phase-Field Fracture <b>2022</b> , 195-206		
485	On two simple virtual Kirchhoff-Love plate elements for isotropic and anisotropic materials. <i>Computational Mechanics</i> , <b>2022</b> , 69, 615-637	4	1
484	Novel Finite Elements - Mixed, Hybrid and Virtual Element Formulations at Finite Strains for 3D Applications. <i>Lecture Notes in Applied and Computational Mechanics</i> , <b>2022</b> , 37-67	0.3	
483	On a virtual element formulation for trusses and beams. <i>Archive of Applied Mechanics</i> , <b>2022</b> , 92, 1655	2.2	0
482	Multilevel Material Modeling to Study Plastic Deformation for Sheet-Bulk Metal Forming Under Different Loading Histories. <i>Lecture Notes in Production Engineering</i> , <b>2021</b> , 334-353	0	
481	Virtual Element Formulation for Finite Strain Elastodynamics. <i>CMES - Computer Modeling in Engineering and Sciences</i> , <b>2021</b> , 129, 1151-1180	1.7	2
480	Loading equine oocytes with cryoprotective agents captured with a finite element method model. <i>Scientific Reports</i> , <b>2021</b> , 11, 19812	4.9	0
479	Computational model of damage-induced growth in soft biological tissues considering the mechanobiology of healing. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2021</b> , 20, 1297-1315	3.8	2
478	A general phase-field model for fatigue failure in brittle and ductile solids. <i>Computational Mechanics</i> , <b>2021</b> , 67, 1431-1452	4	9
477	3D mixed virtual element formulation for dynamic elasto-plastic analysis. <i>Computational Mechanics</i> , <b>2021</b> , 68, 1-18	4	2
476	NURBS-based geometries: A mapping approach for virtual serendipity elements. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 378, 113732	5.7	3
475	Biomechanical Effects of a Cross Connector in Sacral Fractures - A Finite Element Analysis. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 669321	5.8	0

474	Mechano-chemo-biological Computational Models for Arteries in Health, Disease and Healing: From Tissue Remodelling to Drug-eluting Devices. <i>Current Pharmaceutical Design</i> , <b>2021</b> , 27, 1904-1917	3.3	2
473	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> , <b>2021</b> , 379, 113730	5.7	6
472	Feed-Forward Neural Networks for Failure Mechanics Problems. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 6483	2.6	12
471	Electro-magneto-mechanically response of polycrystalline materials: Computational homogenization via the Virtual Element Method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 380, 113775	5.7	5
470	A curing model for the numerical simulation within additive manufacturing of soft polymers using peridynamics. <i>Computational Particle Mechanics</i> , <b>2021</b> , 8, 369-388	3	3
469	A global-local approach for hydraulic phase-field fracture in poroelastic media. <i>Computers and Mathematics With Applications</i> , <b>2021</b> , 91, 99-121	2.7	26
468	A consistent peridynamic formulation for arbitrary particle distributions. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 374, 113605	5.7	4
467	A cover-based contact detection approach for irregular convex polygons in discontinuous deformation analysis. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2021</b> , 45, 208-233	4	10
466	A Selection of Benchmark Problems in Solid Mechanics and Applied Mathematics. <i>Archives of Computational Methods in Engineering</i> , <b>2021</b> , 28, 713-751	7.8	12
465	3D Virtual Elements for Elastodynamic Problems. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2021</b> , 20, e202000175	0.2	1
464	Vision: Digitale Zwillinge für die Additive Fertigung <b>2021</b> , 77-100		
463	Material modeling of ferritic steel on microscopic length scale under cyclic loading. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2021</b> , 20, e202000326	0.2	
462	A design concept of active cooling for tailored forming workpieces during induction heating. <i>Production Engineering</i> , <b>2021</b> , 15, 177-186	1.9	1
461	Mathematical Modeling and Numerical Simulation of Atherosclerosis Based on a Novel Surgeon's View. <i>Archives of Computational Methods in Engineering</i> , <b>2021</b> , 28, 1-20	7.8	1
460	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> , <b>2021</b> , 153, 104476	5	5
459	Bayesian inversion for unified ductile phase-field fracture. <i>Computational Mechanics</i> , <b>2021</b> , 68, 943-980	4	7
458	Comparison of discontinuous damage models of Mullins-type. <i>Archive of Applied Mechanics</i> , <b>2021</b> , 91, 4097-4119	2.2	2
457	Model-data-driven constitutive responses: Application to a multiscale computational framework. <i>International Journal of Engineering Science</i> , <b>2021</b> , 167, 103522	5.7	6

456	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> , <b>2021</b> , 384, 113974	5.7	4
455	A Taylor-Hood type virtual element formulations for large incompressible strains. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 385, 114021	5.7	0
454	Contact between rigid convex NURBS particles based on computer graphics concepts. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 386, 114097	5.7	1
453	Flexible polyhedra modeled by the virtual element method in a discrete element context. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 387, 114163	5.7	0
452	Multilevel global-local techniques for adaptive ductile phase-field fracture. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2021</b> , 387, 114175	5.7	4
451	Curvilinear virtual elements for contact mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 372, 113394	5.7	11
450	Applying Membrane Mode Enhanced Cohesive Zone Elements on Tailored Forming Components. <i>Metals</i> , <b>2020</b> , 10, 1333	2.3	
449	Virtual Element Method for Cross-Wedge Rolling during Tailored Forming Processes. <i>Procedia Manufacturing</i> , <b>2020</b> , 47, 713-718	1.5	2
448	The neural particle method: An updated Lagrangian physics informed neural network for computational fluid dynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 368, 113127	5.7	26
447	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> , <b>2020</b> , 43, 1880-1892	3.2	15
446	Nearly-constrained transversely isotropic linear elasticity: energetically consistent anisotropic deformation modes for mixed finite element formulations. <i>International Journal of Solids and Structures</i> , <b>2020</b> , 202, 166-183	3.1	4
445	Mixed peridynamic formulations for compressible and incompressible finite deformations. <i>Computational Mechanics</i> , <b>2020</b> , 65, 1365-1376	4	6
444	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> , <b>2020</b> , 108, 2776-2788	3.5	4
443	Magnesium Alloys for Open-Pored Bioresorbable Implants. <i>Jom</i> , <b>2020</b> , 72, 1859-1869	2.1	7
442	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> , <b>2020</b> , 109, 103825	4.1	5
441	Numerical method for solution of pointwise contact between surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 365, 112971	5.7	6
440	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> , <b>2020</b> , 249-270	0.3	
439	A Multiscale Projection Method for the Analysis of Fiber Microbuckling in Fiber Reinforced Composites. <i>Lecture Notes in Applied and Computational Mechanics</i> , <b>2020</b> , 167-184	0.3	0

438	Discrete Element Methods: Basics and Applications in Engineering. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures, 2020</i> , 1-30	0.6	1
437	Wasserinduzierte Schädigungsmechanismen zyklisch beanspruchter Hochleistungsbetone/Water-induced damage mechanisms of cyclically loaded High-performance concretes. <i>Bauingenieur, 2020</i> , 95, 126-132	1.7	8
436	A Concept for the Extension of the Assumed Stress Finite Element Method to Hyperelasticity. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures, 2020</i> , 107-126	0.6	1
435	Application of Enhanced Peridynamic Correspondence Formulation for Three-Dimensional Simulations at Large Strains. <i>Lecture Notes in Applied and Computational Mechanics, 2020</i> , 81-104	0.3	1
434	Treatment of Brittle Fracture in Solids with the Virtual Element Method. <i>Lecture Notes in Applied and Computational Mechanics, 2020</i> , 201-228	0.3	1
433	Free surface tension in incompressible smoothed particle hydrodynamics (ISPH). <i>Computational Mechanics, 2020</i> , 65, 487-502	4	7
432	Porous-ductile fracture in thermo-elasto-plastic solids with contact applications. <i>Computational Mechanics, 2020</i> , 65, 941-966	4	6
431	3D orientation data I A comparison of diffraction contrast tomography and serial sectioning electron backscatter diffraction for the nickel-base superalloy IN738LC. <i>Materials Letters, 2020</i> , 262, 127177	3.3	2
430	Phase-field modeling of porous-ductile fracture in non-linear thermo-elasto-plastic solids. <i>Computer Methods in Applied Mechanics and Engineering, 2020</i> , 361, 112730	5.7	39
429	An adaptive global-local approach for phase-field modeling of anisotropic brittle fracture. <i>Computer Methods in Applied Mechanics and Engineering, 2020</i> , 361, 112744	5.7	41
428	Generating virtual process maps of SLM using powder-scale SPH simulations. <i>Computational Particle Mechanics, 2020</i> , 7, 655-677	3	21
427	A novel stress-induced anisotropic growth model driven by nutrient diffusion: Theory, FEM implementation and applications in bio-mechanical problems. <i>Journal of the Mechanics and Physics of Solids, 2020</i> , 144, 104097	5	9
426	A combined adaptive phase field and discrete cutting method for the prediction of crack paths. <i>Computer Methods in Applied Mechanics and Engineering, 2020</i> , 372, 113329	5.7	10
425	Influence of coatings on degradation and osseointegration of open porous Mg scaffolds in vivo. <i>Materialia, 2020</i> , 14, 100949	3.2	3
424	Numerical investigations regarding a novel process chain for the production of a hybrid bearing bushing. <i>Production Engineering, 2020</i> , 14, 569-581	1.9	2
423	A Review on Cementitious Self-Healing and the Potential of Phase-Field Methods for Modeling Crack-Closing and Fracture Recovery. <i>Materials, 2020</i> , 13,	3.5	9
422	Master-master frictional contact and applications for beam-shell interaction. <i>Computational Mechanics, 2020</i> , 66, 1213-1235	4	6
421	A virtual element formulation for general element shapes. <i>Computational Mechanics, 2020</i> , 66, 963-977	4	8

4 <sup>20</sup>	A simulation model for the degradation of magnesium-based bone implants. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 101, 103411	4.1	13
4 <sup>19</sup>	The analyses of dynamic response and reliability for failure-dependent stochastic micro-resonator with thermoelastic coupling effects. <i>Applied Mathematical Modelling</i> , <b>2020</b> , 77, 1168-1187	4.5	3
4 <sup>18</sup>	Peridynamic Petrov-Galerkin method: A generalization of the peridynamic theory of correspondence materials. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 358, 112636	5.7	16
4 <sup>17</sup>	The dynamic analysis of stochastic thin-walled structures under thermal-structural-acoustic coupling. <i>Computational Mechanics</i> , <b>2020</b> , 65, 609-634	4	3
4 <sup>16</sup>	A machine learning based plasticity model using proper orthogonal decomposition. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 365, 113008	5.7	36
4 <sup>15</sup>	Efficient modeling of filled rubber assuming stress-induced microscopic restructurization. <i>International Journal of Engineering Science</i> , <b>2020</b> , 151, 103291	5.7	14
4 <sup>14</sup>	VIRTUAL ELEMENT FORMULATION FOR PHASE-FIELD MODELING OF DUCTILE FRACTURE. <i>International Journal for Multiscale Computational Engineering</i> , <b>2019</b> , 17, 181-200	2.4	33
4 <sup>13</sup>	Comparison of degradation behaviour and osseointegration of the two magnesium scaffolds, LAE442 and La2, in vivo. <i>Materialia</i> , <b>2019</b> , 8, 100436	3.2	8
4 <sup>12</sup>	Processing and coating of open-pored absorbable magnesium-based bone implants. <i>Materials Science and Engineering C</i> , <b>2019</b> , 98, 1073-1086	8.3	26
4 <sup>11</sup>	A virtual element method for frictional contact including large deformations. <i>Engineering Computations</i> , <b>2019</b> , 36, 2133-2161	1.4	5
4 <sup>10</sup>	Virtual elements for finite thermo-plasticity problems. <i>Computational Mechanics</i> , <b>2019</b> , 64, 1347-1360	4	19
4 <sup>09</sup>	Molecular-level collagen damage explains softening and failure of arterial tissues: A quantitative interpretation of CHP data with a novel elasto-damage model. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2019</b> , 97, 254-271	4.1	10
4 <sup>08</sup>	A computational framework for brittle crack-propagation based on efficient virtual element method. <i>Finite Elements in Analysis and Design</i> , <b>2019</b> , 159, 15-32	2.2	29
4 <sup>07</sup>	Modeling of two-body abrasive wear of filled elastomers as a contact-induced fracture process. <i>Tribology International</i> , <b>2019</b> , 138, 16-31	4.9	6
4 <sup>06</sup>	Material models for the thermoplastic material behaviour of a dual-phase steel on a microscopic and a macroscopic length scale. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2019</b> , 129, 205-228	5	4
4 <sup>05</sup>	Sensitivity analysis for the mechanics of tendons and ligaments: Investigation on the effects of collagen structural properties via a multiscale modeling approach. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2019</b> , 35, e3209	2.6	19
4 <sup>04</sup>	Modelling of serrated chip formation processes using the stabilized optimal transportation meshfree method. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 155, 323-333	5.5	7
4 <sup>03</sup>	Computing pointwise contact between bodies: a class of formulations based on master-master approach. <i>Computational Mechanics</i> , <b>2019</b> , 64, 585-609	4	14

402	Direct and inverse identification of constitutive parameters from the structure of soft tissues. Part 2: Dispersed arrangement of collagen fibers. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2019</b> , 18, 897-920	3.8	6
401	A low order 3D virtual element formulation for finite elastoplastic deformations. <i>Computational Mechanics</i> , <b>2019</b> , 63, 253-269	4	27
400	A micro-thermo-mechanical model for a tailored formed joining zone deformed by die forging <b>2019</b>		1
399	Serendipity virtual element formulation for nonlinear elasticity. <i>Computers and Structures</i> , <b>2019</b> , 223, 106094	4.5	13
398	Bulk material models in Cohesive Zone Elements for simulation of joining zones. <i>Finite Elements in Analysis and Design</i> , <b>2019</b> , 164, 42-54	2.2	2
397	An extension of assumed stress finite elements to a general hyperelastic framework. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , <b>2019</b> , 6,	2.7	7
396	Low-order locking-free mixed finite element formulation with approximation of the minors of the deformation gradient. <i>International Journal for Numerical Methods in Engineering</i> , <b>2019</b> , 120, 1011-1026	2.4	0
395	Computational homogenization of polycrystalline materials with the Virtual Element Method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2019</b> , 355, 349-372	5.7	17
394	Experimental characterization and computational modeling of hydrogel cross-linking for bioprinting applications. <i>International Journal of Artificial Organs</i> , <b>2019</b> , 42, 548-557	1.9	10
393	Simulation-Aided Process Chain Design for the Manufacturing of Hybrid Shafts. <i>HTM - Journal of Heat Treatment and Materials</i> , <b>2019</b> , 74, 115-135	0.7	4
392	Computational modeling of hydrogel cross-linking based on reaction-diffusion theory. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2019</b> , 19, e201900406	0.2	1
391	Water-induced failure mechanics for concrete. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2019</b> , 19, e201900140	0.2	6
390	3D Dynamic Crack under Cyclic Loading using XFEM: Numerical Treatment. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2019</b> , 19, e201900147	0.2	
389	A Computational Model for Biological Tissues Considering the Influence of Injury on Growth and Remodelling. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2019</b> , 19, e201900259	0.2	1
388	A series of Duffy-distance transformation for integrating 2D and 3D vertex singularities. <i>International Journal for Numerical Methods in Engineering</i> , <b>2019</b> , 118, 38-60	2.4	5
387	Micro-macro constitutive modeling and finite element analytical-based formulations for fibrous materials: A multiscale structural approach for crimped fibers. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2019</b> , 344, 938-969	5.7	9
386	Red blood cell simulation using a coupled shell-fluid analysis purely based on the SPH method. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2019</b> , 18, 347-359	3.8	5
385	Investigation of heat source modeling for selective laser melting. <i>Computational Mechanics</i> , <b>2019</b> , 63, 949-970	4	19

384	Nonlinear discontinuous Petrov-Galerkin methods. <i>Numerische Mathematik</i> , <b>2018</b> , 139, 529-561	2.2	10
383	Direct and inverse identification of constitutive parameters from the structure of soft tissues. Part 1: micro- and nanostructure of collagen fibers. <i>Biomechanics and Modeling in Mechanobiology</i> , <b>2018</b> , 17, 1011-1036	3.8	11
382	Isogeometric frictionless contact analysis with the third medium method. <i>Computational Mechanics</i> , <b>2018</b> , 62, 1009-1021	4	7
381	A modified Gurson-type plasticity model at finite strains: formulation, numerical analysis and phase-field coupling. <i>Computational Mechanics</i> , <b>2018</b> , 62, 815-833	4	61
380	Virtual element formulation for isotropic damage. <i>Finite Elements in Analysis and Design</i> , <b>2018</b> , 144, 38-48.2	4.8	18
379	3D ductile crack propagation within a polycrystalline microstructure using XFEM. <i>Computational Mechanics</i> , <b>2018</b> , 61, 71-88	4	15
378	On the computational aspects of comminution in discrete element method. <i>Computational Particle Mechanics</i> , <b>2018</b> , 5, 175-189	3	10
377	Stabilization algorithm for the optimal transportation meshfree approximation scheme. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 329, 421-443	5.7	18
376	Contact between spheres and general surfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 328, 686-716	5.7	9
375	Delamination onset and growth in composite shells. <i>Computers and Structures</i> , <b>2018</b> , 195, 1-15	4.5	4
374	Experimental and numerical characterization of expanded glass granules. <i>Computational Particle Mechanics</i> , <b>2018</b> , 5, 297-312	3	6
373	Efficient Low Order Virtual Elements for Anisotropic Materials at Finite Strains. <i>Computational Methods in Applied Sciences (Springer)</i> , <b>2018</b> , 417-434	0.4	7
372	Variational phase-field formulation of non-linear ductile fracture. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 342, 71-94	5.7	53
371	Multiscale finite element analysis of uncertain-but-bounded heterogeneous materials at finite deformation. <i>Finite Elements in Analysis and Design</i> , <b>2018</b> , 149, 15-31	2.2	4
370	Phase-field modeling of brittle fracture using an efficient virtual element scheme. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 341, 443-466	5.7	71
369	Metal particle fusion analysis for additive manufacturing using the stabilized optimal transportation meshfree method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 339, 91-114	5.7	19
368	A Virtual Element Method for 2D linear elastic fracture analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 340, 366-395	5.7	35
367	Efficient integration of crack singularities in the extended finite element method: Duffy-distance transformation and conformal preconditioning strategy. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2018</b> , 340, 559-576	5.7	22



366	An advanced abrasion model for tire wear. <i>Wear</i> , <b>2018</b> , 396-397, 75-85	3.5	14
365	Finite and Virtual Element Formulations for Large Strain Anisotropic Material with Inextensive Fibers. <i>Lecture Notes in Applied and Computational Mechanics</i> , <b>2018</b> , 205-231	0.3	5
364	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> , <b>2018</b> , 277-299	0.3	6
363	Simulation of bone ingrowth into bone substitutes on implant level length scale. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2018</b> , 18, e201800297	0.2	
362	A Virtual Element Method for Crack Propagation. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2018</b> , 18, e201800104	0.2	6
361	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> , <b>2018</b> , 18, e201800329	0.2	2
360	Examining errors and correction techniques for SPH. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2018</b> , 18, e201800081	0.2	
359	Internal Thickness Extrapolation. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2018</b> , 18, e201800381		1
358	Modelling and experimental testing of expanded granules as crash-absorber for double hull ships. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2018</b> , 18, e201800416	0.2	
357	Advanced Discretization Methods for Contact Mechanics. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , <b>2018</b> , 87-123	0.6	
356	Finite strain response of crimped fibers under uniaxial traction: An analytical approach applied to collagen. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2017</b> , 98, 429-453	5	19
355	Strategies to Apply Soil Models Directly as Friction Laws in Soil Structure Interactions. <i>Lecture Notes in Applied and Computational Mechanics</i> , <b>2017</b> , 216-236	0.3	1
354	Development of Sponge Structure and Casting Conditions for Absorbable Magnesium Bone Implants. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 307-317	0.3	5
353	A master-surface to master-surface formulation for beam to beam contact. Part II: Frictional interaction. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2017</b> , 319, 146-174	5.7	20
352	Efficient virtual element formulations for compressible and incompressible finite deformations. <i>Computational Mechanics</i> , <b>2017</b> , 60, 253-268	4	75
351	On the stability analysis of hyperelastic boundary value problems using three- and two-field mixed finite element formulations. <i>Computational Mechanics</i> , <b>2017</b> , 60, 479-492	4	11
350	Statics [Formulas and Problems <b>2017</b> ,		2
349	Mechanics of Materials [Formulas and Problems <b>2017</b> ,		7

348	Isogeometric symmetric Galerkin boundary element method for three-dimensional elasticity problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2017</b> , 323, 132-150	5.7	21
347	Coupling Microscale Transport and Tissue Mechanics: Modeling Strategies for Arterial Multiphysics <b>2017</b> , 77-112		2
346	Aerodynamical and Structural Analysis of Operationally Used Turbine Blades. <i>Procedia CIRP</i> , <b>2017</b> , 59, 77-82	1.8	6
345	Multi-scale study of high-strength low-thermal-conductivity cement composites containing cenospheres. <i>Cement and Concrete Composites</i> , <b>2017</b> , 80, 91-103	8.6	40
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18	Grundlagen nichtlinearer Berechnungsverfahren in der Strukturmechanik <b>1989</b> , 1-53		7
17	A quadratically convergent procedure for the calculation of stability points in finite element analysis. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>1988</b> , 70, 329-347	5.7	121
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