

Paul Steinmann

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.

584
papers

11,319
citations

55
h-index

83
g-index

623
ext. papers

12,942
ext. citations

2.7
avg, IF

7.02
L-index

#	Paper	IF	Citations
584	A hybrid analytical-numerical model for calculating the maximum elastic force acting on a flow-driven elastic prolate spheroidal particle during its collision with a rigid wall. <i>Computational Mechanics</i> , 2022 , 69, 1021	4	0
583	Observations on additive plasticity in the logarithmic strain space at excessive strains. <i>International Journal of Solids and Structures</i> , 2022 , 239-240, 111416	3.1	1
582	Modeling the dynamic magneto-mechanical response of magnetic shape memory alloys based on Hamilton's principle: The governing equation system. <i>Journal of the Mechanics and Physics of Solids</i> , 2022 , 160, 104761	5	
581	Relationships between the material parameters of continuum-kinematics-inspired peridynamics and isotropic linear elasticity for two-dimensional problems. <i>International Journal of Solids and Structures</i> , 2022 , 238, 111366	3.1	3
580	Mechanical Balances. <i>Solid Mechanics and Its Applications</i> , 2022 , 157-188	0.4	
579	Computational Setting. <i>Solid Mechanics and Its Applications</i> , 2022 , 361-395	0.4	
578	Consequences of Thermodynamical Balances. <i>Solid Mechanics and Its Applications</i> , 2022 , 329-359	0.4	
577	Node Based Non-invasive Form Finding Revisited—the Challenge of Remeshing 2022 , 83-91		
576	Kinematics on Dimensionally Reduced Smooth Manifolds. <i>Solid Mechanics and Its Applications</i> , 2022 , 37-60, 4		
575	A Model for Translation and Rotation Resistance Tensors for Superellipsoidal Particles in Stokes Flow. <i>Journal of Marine Science and Engineering</i> , 2022 , 10, 369	2.4	0
574	Investigation of a nonlinear piezoelectric energy harvester with advanced electric circuits with the finite element method. <i>SN Applied Sciences</i> , 2022 , 4, 1	1.8	1
573	On mesh refinement procedures for the virtual element method for two-dimensional elastic problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022 , 393, 114849	5.7	0
572	Homogenization of fully nonlinear rod lattice structures: on the size of the RVE and micro structural instabilities. <i>Computational Mechanics</i> , 2022 , 69, 947-964	4	0
571	A peridynamic formulation for nonlocal bone remodelling.. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2022 , 1-17	2.1	0
570	A variational integrator for the Discrete Element Method. <i>Journal of Computational Physics</i> , 2022 , 462, 111253	4.1	1
569	Experimental and numerical investigations of the electro-mechanical response of particle filled elastomers - Part II: Continuum modeling approach. <i>European Journal of Mechanics, A/Solids</i> , 2022 , 104667	3.7	
568	Influence of Kinematic Hardening on Clinch Joining of Dual-Phase Steel HCT590X Sheet Metal. <i>Minerals, Metals and Materials Series</i> , 2022 , 329-344	0.3	

567	Anisotropic plasticity-damage material model for sheet metal [Regularised single surface formulation. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021 , 21,	0.2	1
566	Bone fracture healing within a continuum bone remodelling framework. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021 , 1-11	2.1	2
565	On Optimization Strategies for Inverse Problems in Metalforming. <i>Lecture Notes in Production Engineering</i> , 2021 , 354-377	0	1
564	Spatiotemporal modeling of first and second wave outbreak dynamics of COVID-19 in Germany. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021 , 21, 119	3.8	2
563	Can CFD establish a connection to a milder COVID-19 disease in younger people? Aerosol deposition in lungs of different age groups based on Lagrangian particle tracking in turbulent flow. <i>Computational Mechanics</i> , 2021 , 67, 1-17	4	5
562	Towards an holistic account on residual stresses in full-forward extruded rods. <i>Archive of Applied Mechanics</i> , 2021 , 91, 3649-3664	2.2	1
561	Generalized interfaces via weighted averages for application to graded interphases at large deformations. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 149, 104234	5	5
560	A Novel Approach to Predict the Process-Induced Mechanical Behavior of Additively Manufactured Materials. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 5235-5246	1.6	2
559	Enhanced computational homogenization techniques for modelling size effects in polymer composites. <i>Computational Mechanics</i> , 2021 , 68, 371-389	4	0
558	Homogenization of Composites with Extended General interfaces: Comprehensive Review and Unified Modeling. <i>Applied Mechanics Reviews</i> , 2021 ,	8.6	7
557	Towards elasto-plastic continuum-kinematics-inspired peridynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 380, 113809	5.7	5
556	Risk Assessment of Infection by Airborne Droplets and Aerosols at Different Levels of Cardiovascular Activity. <i>Archives of Computational Methods in Engineering</i> , 2021 , 28, 1-20	7.8	2
555	Coupled electro-elastic deformation and instabilities of a toroidal membrane. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 151, 104221	5	3
554	A thermodynamically consistent theory of stress-gradient plasticity. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 147, 104266	5	1
553	A geometrically exact formulation of peridynamics. <i>Theoretical and Applied Fracture Mechanics</i> , 2021 , 111, 102850	3.7	9
552	Numerical and experimental investigation of the isothermal assumption in selective laser sintering of PA12. <i>Additive Manufacturing</i> , 2021 , 37, 101676	6.1	2
551	Kinematically exact peridynamics 2021 , 223-245		0
550	Geometrically exact elastoplastic rods: determination of yield surface in terms of stress resultants. <i>Computational Mechanics</i> , 2021 , 67, 723-742	4	1

549	Concurrent consideration of cortical and cancellous bone within continuum bone remodelling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021 , 24, 1274-1285	2.1	2
548	Continuum-kinematics-inspired peridynamics: Thermo-mechanical problems. <i>Continuum Mechanics and Thermodynamics</i> , 2021 , 33, 2039-2063	3.5	4
547	Component residual stress control in forward rod extrusion by material flow and tribology. Experiments and modeling. <i>Forschung Im Ingenieurwesen/Engineering Research</i> , 2021 , 85, 733	0.8	
546	Discrete configurational mechanics for the computational study of atomistic fracture mechanics. <i>Forces in Mechanics</i> , 2021 , 2, 100009	1.5	2
545	Nonlocal wrinkling instabilities in bilayered systems using peridynamics. <i>Computational Mechanics</i> , 2021 , 68, 1023-1037	4	0
544	Modeling crystallization kinetics for selective laser sintering of polyamide 12. <i>GAMM Mitteilungen</i> , 2021 , 44, e202100011	1.8	1
543	A coupled MD-FE methodology to characterize mechanical interphases in polymeric nanocomposites. <i>International Journal of Mechanical Sciences</i> , 2021 , 204, 106564	5.5	5
542	Variationally consistent computational homogenization of chemomechanical problems with stabilized weakly periodic boundary conditions. <i>International Journal for Numerical Methods in Engineering</i> , 2021 , 122, 6429	2.4	1
541	Coupled topology and shape optimization using an embedding domain discretization method. <i>Structural and Multidisciplinary Optimization</i> , 2021 , 64, 2687	3.6	0
540	Poro-Viscoelastic Effects During Biomechanical Testing of Human Brain Tissue. <i>Frontiers in Mechanical Engineering</i> , 2021 , 7,	2.6	2
539	Atomistic two-, three- and four-body potentials. Spatial and material settings. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 154, 104507	5	2
538	A geometrically exact continuum framework for light-matter interaction in photo-active polymers I. Variational setting. <i>International Journal of Solids and Structures</i> , 2021 , 226-227, 111073	3.1	0
537	A complete thermo-electro-viscoelastic characterization of dielectric elastomers - Part II: Continuum modelling approach. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 157, 104625	5	1
536	Phonon-based thermal configurational forces: Definitions and applications in rupture of semiconductors. <i>Engineering Fracture Mechanics</i> , 2021 , 257, 108014	4.2	
535	A viscoelastic-viscoplastic constitutive model for glassy polymers informed by molecular dynamics simulations. <i>International Journal of Solids and Structures</i> , 2021 , 226-227, 111071	3.1	4
534	Atomistic configurational forces in crystalline fracture. <i>Forces in Mechanics</i> , 2021 , 4, 100044	1.5	1
533	A complete thermo-electro-viscoelastic characterization of dielectric elastomers, Part I: Experimental investigations. <i>Journal of the Mechanics and Physics of Solids</i> , 2021 , 157, 104603	5	4
532	The Catalogue of Computational Material Models 2021 ,		2

531	A two-field computational model couples cellular brain development with cortical folding. <i>Brain Multiphysics</i> , 2021 , 2, 100025	4.2	7
530	Parametric FEM for computational homogenization of heterogeneous materials with random voids. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021 , 20, e202000071	0.2	
529	A multifield computational model explains the underlying mechanisms of cortical malformations in the developing brain. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021 , 20, e202000171	0.2	1
528	Identification of mechanical models and parameters for alginate-based hydrogels as proxy materials for brain tissue. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2021 , 20, e202000338	0.2	
527	Analytical mechanics allows novel vistas on mathematical epidemic dynamics modeling. <i>Mathematics and Mechanics of Complex Systems</i> , 2020 , 8, 321-343	3.2	1
526	Modeling the porous and viscous responses of human brain tissue behavior. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 369, 113128	5.7	19
525	On biological availability dependent bone remodeling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020 , 23, 432-444	2.1	6
524	FE2 simulations of magnetorheological elastomers: influence of microscopic boundary conditions, microstructures and free space on the macroscopic responses of MREs. <i>International Journal of Solids and Structures</i> , 2020 , 193-194, 338-356	3.1	15
523	A matrix-free approach for finite-strain hyperelastic problems using geometric multigrid. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 121, 2874-2895	2.4	6
522	On age-dependent bone remodeling. <i>Journal of Biomechanics</i> , 2020 , 103, 109701	2.9	6
521	Temperature distribution and entropy generation during Darcy-Borchheimer-Brinkman electrokinetic flow in a microfluidic tube subject to a prescribed heat flux. <i>Meccanica</i> , 2020 , 55, 1079-1098	2.1	9
520	Grain boundary interaction based on gradient crystal inelasticity and decohesion. <i>Computational Materials Science</i> , 2020 , 178, 109604	3.2	4
519	Characterization of Polystyrene Under Shear Deformation Using Molecular Dynamics. <i>Advanced Structured Materials</i> , 2020 , 219-229	0.6	2
518	Towards microstructure-informed material models for human brain tissue. <i>Acta Biomaterialia</i> , 2020 , 104, 53-65	10.8	19
517	Behavior of vibration energy harvesters composed of polymer fibers and piezoelectric ceramic particles. <i>Sensors and Actuators A: Physical</i> , 2020 , 303, 111699	3.9	3
516	Acceleration of the spectral stochastic FEM using POD and element based discrete empirical approximation for a micromechanical model of heterogeneous materials with random geometry. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 360, 112689	5.7	3
515	Modelling the flexoelectric effect in solids: A micromorphic approach. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 371, 113320	5.7	3
514	A finite element formulation for a direct approach to elastoplasticity in special Cosserat rods. <i>International Journal for Numerical Methods in Engineering</i> , 2020 , 122, 1262	2.4	2

513	Shape Optimization of a Backward Extrusion Process Using a Non-Invasive Form Finding Algorithm. <i>Procedia Manufacturing</i> , 2020 , 47, 873-880	1.5	2
512	Alginate-based hydrogels show the same complex mechanical behavior as brain tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 111, 103979	4.1	17
511	Assessment of an isogeometric approach with Catmull-Clark subdivision surfaces using the Laplace-Beltrami problems. <i>Computational Mechanics</i> , 2020 , 66, 851-876	4	0
510	The computational framework for continuum-kinematics-inspired peridynamics. <i>Computational Mechanics</i> , 2020 , 66, 795-824	4	15
509	A novel two-way coupling model for Euler-Lagrange simulations of multiphase flow. <i>Engineering Analysis With Boundary Elements</i> , 2020 , 119, 119-132	2.6	2
508	Memory-based meso-scale modeling of Covid-19: County-resolved timelines in Germany. <i>Computational Mechanics</i> , 2020 , 66, 1-11	4	17
507	On thermo-viscoelastic experimental characterization and numerical modelling of VHB polymer. <i>International Journal of Non-Linear Mechanics</i> , 2020 , 118, 103263	2.8	37
506	Towards a unified shear-induced lift model for prolate spheroidal particles moving in arbitrary non-uniform flow. <i>Computers and Fluids</i> , 2020 , 196, 104323	2.8	2
505	Fifty Shades of Brain: A Review on the Mechanical Testing and Modeling of Brain Tissue. <i>Archives of Computational Methods in Engineering</i> , 2020 , 27, 1187-1230	7.8	76
504	On the influence of the compliant electrodes on the mechanical behavior of VHB 4905. <i>Computational Materials Science</i> , 2019 , 160, 287-294	3.2	15
503	Systematic study of homogenization and the utility of circular simplified representative volume element. <i>Mathematics and Mechanics of Solids</i> , 2019 , 24, 2961-2985	2.3	12
502	On effective behavior of microstructures embedding general interfaces with damage. <i>Computational Mechanics</i> , 2019 , 64, 1473-1494	4	6
501	Experimental and numerical investigations of the electro-viscoelastic behavior of VHB 4905TM. <i>European Journal of Mechanics, A/Solids</i> , 2019 , 77, 103797	3.7	26
500	Challenges of order reduction techniques for problems involving polymorphic uncertainty. <i>GAMM Mitteilungen</i> , 2019 , 42, e201900011	1.8	4
499	Investigations on residual stress generation in full-forward-extrusion. <i>Production Engineering</i> , 2019 , 13, 169	1.9	5
498	On spectral fuzzy-stochastic FEM for problems involving polymorphic geometrical uncertainties. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 350, 432-461	5.7	8
497	A computational approach to obtain nonlinearly elastic constitutive relations of special Cosserat rods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 350, 295-314	5.7	9
496	Settling characteristics of nonspherical porous sludge flocs with nonhomogeneous mass distribution. <i>Water Research</i> , 2019 , 158, 159-170	12.5	13

495	Designing tunable composites with general interfaces. <i>International Journal of Solids and Structures</i> , 2019 , 171, 181-188	3.1	6
494	Reduced-Order Modelling and Homogenisation in Magneto-Mechanics: A Numerical Comparison of Established Hyper-Reduction Methods. <i>Mathematical and Computational Applications</i> , 2019 , 24, 20	1	1
493	On the emergence of out-of-plane ferroelectricity in ultrathin films. <i>Archive of Applied Mechanics</i> , 2019 , 89, 1171-1181	2.2	0
492	Modeling of additively manufactured materials using gradient-enhanced crystal plasticity. <i>Computers and Mathematics With Applications</i> , 2019 , 78, 2338-2350	2.7	15
491	On periodic boundary conditions and ergodicity in computational homogenization of heterogeneous materials with random microstructure. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019 , 357, 112563	5.7	9
490	A novel continuum approach to gradient plasticity based on the complementing concepts of dislocation and disequilibrium densities. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 132, 103680	5	6
489	Fuzzy dynamics of multibody systems with polymorphic uncertainty in the material microstructure. <i>Computational Mechanics</i> , 2019 , 64, 1601-1619	4	2
488	Continuum-kinematics-inspired peridynamics. Mechanical problems. <i>Journal of the Mechanics and Physics of Solids</i> , 2019 , 131, 125-146	5	31
487	An energetically consistent heat input model for additive manufacturing. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900297	0.2	0
486	Cutoff-Based Modeling of Coulomb Interactions for Atomistic-to-Continuum Multiscale Methods. <i>Multiscale Science and Engineering</i> , 2019 , 1, 299-317	1.2	
485	Extensive CGMD Simulations of Atactic PS Providing Pseudo Experimental Data to Calibrate Nonlinear Inelastic Continuum Mechanical Constitutive Laws. <i>Polymers</i> , 2019 , 11,	4.5	8
484	Implementation of generalized mechanical interfaces. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900031	0.2	
483	Gradient Enhanced Crystal Plasticity in Additive Manufacturing Identification of a Macroscopic Yield Criterion. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900308	0.2	
482	Investigation of the Mechanical Behavior of Polystyrene using Molecular Dynamics. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900015	0.2	
481	Challenges and perspectives in brain tissue testing and modeling. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019 , 19, e201900269	0.2	3
480	Optimisation of the Capriccio Method to Couple Particle- and Continuum-Based Simulations of Polymers. <i>Multiscale Science and Engineering</i> , 2019 , 1, 318-333	1.2	8
479	A novel model for the lift force acting on a prolate spheroidal particle in arbitrary non-uniform flow. Part II. Lift force taking into account the non-streamwise flow shear. <i>International Journal of Multiphase Flow</i> , 2019 , 111, 232-240	3.6	4
478	Thermodynamic formulation of a unified multi-mechanism continuum viscoplastic damage model with application to high-Cr steels. <i>International Journal of Plasticity</i> , 2019 , 114, 15-39	7.6	10

477	A thermoelastoplastic theory for special Cosserat rods. <i>Mathematics and Mechanics of Solids</i> , 2019 , 24, 686-700	2.3	3
476	A novel model for the lift force acting on a prolate spheroidal particle in an arbitrary non-uniform flow. Part I. Lift force due to the streamwise flow shear. <i>International Journal of Multiphase Flow</i> , 2018 , 104, 103-112	3.6	13
475	Two reduction methods for stochastic FEM based homogenization using global basis functions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018 , 332, 488-519	5.7	11
474	On Constitutive Models for the Momentum Transfer to Particles in Fluid-Dominated Two-Phase Flows. <i>Advanced Structured Materials</i> , 2018 , 1-25	0.6	4
473	On the Influence of the Coupled Invariant in Thermo-Electro-Elasticity. <i>Advanced Structured Materials</i> , 2018 , 533-554	0.6	1
472	Application of metaheuristic algorithms to the identification of nonlinear magneto-viscoelastic constitutive parameters. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 464, 116-131	2.8	11
471	Hyperelastic analysis based on a polygonal finite element method. <i>Mechanics of Advanced Materials and Structures</i> , 2018 , 25, 930-942	1.8	11
470	Aspects of computational homogenization in magneto-mechanics: Boundary conditions, RVE size and microstructure composition. <i>International Journal of Solids and Structures</i> , 2018 , 130-131, 105-121	3.1	16
469	Improvements on a non-invasive, parameter-free approach to inverse form finding. <i>Computational Mechanics</i> , 2018 , 61, 433-447	4	5
468	Control of minimum member size in parameter-free structural shape optimization by a medial axis approximation. <i>Computational Mechanics</i> , 2018 , 61, 717-727	4	2
467	Matrix-Free Locally Adaptive Finite Element Solution of Density-Functional Theory With Nonorthogonal Orbitals and Multigrid Preconditioning. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800069	1.3	5
466	A non-invasive node-based form finding approach with discretization-independent target configuration. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2018 , 5,	2.7	4
465	Improvement of the Machining Accuracy in Dry Turning of Aluminum Metal Matrix Composites via Experiments and Finite Element Simulations. <i>Lecture Notes in Production Engineering</i> , 2018 , 35-62	0	2
464	Surface plasticity: theory and computation. <i>Computational Mechanics</i> , 2018 , 62, 617-634	4	3
463	Bounds on size-dependent behaviour of composites. <i>Philosophical Magazine</i> , 2018 , 98, 437-463	1.6	7
462	Modelling electro-active polymers with a dispersion-type anisotropy. <i>Smart Materials and Structures</i> , 2018 , 27, 025010	3.4	15
461	Computational first-order homogenization in chemo-mechanics. <i>Archive of Applied Mechanics</i> , 2018 , 88, 271-286	2.2	8
460	On the influence of inhomogeneous stiffness and growth on mechanical instabilities in the developing brain. <i>International Journal of Solids and Structures</i> , 2018 , 132-133, 31-41	3.1	15

459	Domain decomposition applied to the thermal model of selective beam melting processes. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800094	0.2	
458	Single crystal plasticity Γ mesoscale based approach for modeling the mechanics of additively manufactured Inconel 718. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800389	0.2	1
457	Growth-induced instabilities of an elastic film on a viscoelastic substrate: analytical solution and computational approach via eigenvalue analysis. <i>Journal of Mechanics of Materials and Structures</i> , 2018 , 13, 571-585	1.2	3
456	Region- and loading-specific finite viscoelasticity of human brain tissue. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2018 , 18, e201800169	0.2	5
455	Illustration of an improved non-invasive form finding algorithm 2018 ,		3
454	Mechanical Interphases in Adhesive Joints: Characterisation Methods and FE-Simulations 2018 , 79-133		2
453	Adhesive Network Formation: Continuum Mechanical Modelling and Simulation 2018 , 43-77		
452	Numerical modeling of thermo-electro-viscoelasticity with field-dependent material parameters. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 106, 13-24	2.8	29
451	The origin of compression influences geometric instabilities in bilayers. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018 , 474, 20180267	2.4	5
450	Fuzzy-stochastic FEM based homogenization framework for materials with polymorphic uncertainties in the microstructure. <i>International Journal for Numerical Methods in Engineering</i> , 2018 , 116, 633-660	2.4	7
449	Dissipation-consistent modelling and classification of extended plasticity formulations. <i>Journal of the Mechanics and Physics of Solids</i> , 2018 , 119, 118-139	5	12
448	A novel spectral formulation for transversely isotropic magneto-elasticity. <i>Mathematics and Mechanics of Solids</i> , 2017 , 22, 1158-1176	2.3	18
447	Macroscopic simulation and experimental measurement of melt pool characteristics in selective electron beam melting of Ti-6Al-4V. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 88, 1309-1317	3.2	62
446	Highly-conductive energetic coherent interfaces subject to in-plane degradation. <i>Mathematics and Mechanics of Solids</i> , 2017 , 22, 1696-1716	2.3	4
445	On structural shape optimization using an embedding domain discretization technique. <i>International Journal for Numerical Methods in Engineering</i> , 2017 , 109, 1315-1343	2.4	5
444	Some properties of the dissipative model of strain-gradient plasticity. <i>Philosophical Magazine</i> , 2017 , 97, 693-717	1.6	11
443	Towards an efficient two-scale approach to model technical textiles. <i>Computational Mechanics</i> , 2017 , 59, 385-401	4	9
442	Preparation of magnetorheological elastomers and their slip-free characterization by means of parallel-plate rotational rheometry. <i>Smart Materials and Structures</i> , 2017 , 26, 085004	3.4	13

441	Coupled thermally general imperfect and mechanically coherent energetic interfaces subject to in-plane degradation. <i>Journal of Mechanics of Materials and Structures</i> , 2017 , 12, 289-312	1.2	3
440	On curvature approximation in 2D and 3D parameter-free shape optimization. <i>Structural and Multidisciplinary Optimization</i> , 2017 , 55, 1655-1669	3.6	5
439	Molecular dynamics study of ferroelectric domain nucleation and domain switching dynamics. <i>Scientific Reports</i> , 2017 , 7, 806	4.9	32
438	Adaptive Poly-FEM for the analysis of plane elasticity problems. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2017 , 18, 146-165	0.7	5
437	On the wall slip phenomenon of elastomers in oscillatory shear measurements using parallel-plate rotational rheometry: II. Influence of experimental conditions. <i>Polymer Testing</i> , 2017 , 61, 455-463	4.5	8
436	A numerical study of different projection-based model reduction techniques applied to computational homogenisation. <i>Computational Mechanics</i> , 2017 , 60, 613-625	4	21
435	On the wall slip phenomenon of elastomers in oscillatory shear measurements using parallel-plate rotational rheometry: I. Detecting wall slip. <i>Polymer Testing</i> , 2017 , 61, 430-440	4.5	13
434	Wrinkling instabilities in soft bilayered systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	30
433	Flow Relations and Yield Functions for Dissipative Strain-Gradient Plasticity. <i>Advanced Structured Materials</i> , 2017 , 31-42	0.6	
432	Uniaxial deformation of polystyrene/silica nanocomposites studied by hybrid molecular dynamics/finite element simulations. <i>Computational Materials Science</i> , 2017 , 129, 1-12	3.2	12
431	Micro-to-macro transition accounting for general imperfect interfaces. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 317, 274-317	5.7	55
430	On gradient-based optimization strategies for inverse problems in metal forming. <i>GAMM Mitteilungen</i> , 2017 , 40, 27-50	1.8	2
429	Towards a thermo-magneto-mechanical coupling framework for magneto-rheological elastomers. <i>International Journal of Solids and Structures</i> , 2017 , 128, 117-132	3.1	34
428	Numerical modelling of nonlinear thermo-electro-elasticity. <i>Mathematics and Mechanics of Solids</i> , 2017 , 22, 2196-2213	2.3	10
427	Viscoelastic parameter identification of human brain tissue. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 74, 463-476	4.1	78
426	Rheological characterization of human brain tissue. <i>Acta Biomaterialia</i> , 2017 , 60, 315-329	10.8	71
425	Mechanical characterization of human brain tissue. <i>Acta Biomaterialia</i> , 2017 , 48, 319-340	10.8	268
424	Aspects of implementing constant traction boundary conditions in computational homogenization via semi-Dirichlet boundary conditions. <i>Computational Mechanics</i> , 2017 , 59, 21-35	4	15

423	Numerical homogenization of elastic and thermal material properties for metal matrix composites (MMC). <i>Continuum Mechanics and Thermodynamics</i> , 2017 , 29, 51-75	3.5	9
422	A thermo-viscoplastic constitutive law for isotropic hardening of metals. <i>Archive of Applied Mechanics</i> , 2017 , 87, 129-157	2.2	6
421	Non-coherent energetic interfaces accounting for degradation. <i>Computational Mechanics</i> , 2017 , 59, 361-383	4.8	13
420	Convergence study of the \mathcal{H}^1 -adaptive PUM and the \mathcal{H}^1 -adaptive FEM applied to eigenvalue problems in quantum mechanics. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2017 , 4, 7	2.7	12
419	Preface of the guest editors. <i>GAMM Mitteilungen</i> , 2017 , 40, 7-7	1.8	
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