

# Wolfgang A Wall

## List of Publications by Year in descending order

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290  
papers

9,942  
citations

34105

52  
h-index

53230

85  
g-index

304  
all docs

304  
docs citations

304  
times ranked

6245  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Multifidelity Function-on-Function Model Applied to an Abdominal Aortic Aneurysm. <i>Technometrics</i> , 2022, 64, 279-290.	1.9	4
2	A coupled finite element approach to spatially resolved lithium plating and stripping in three-dimensional anode microstructures of lithium-ion cells. <i>Journal of Computational Physics</i> , 2022, 461, 111179.	3.8	3
3	Numerical evidence of anomalous energy dissipation in incompressible Euler flows: towards grid-converged results for the inviscid Taylorâ€œGreen problem. <i>Journal of Fluid Mechanics</i> , 2022, 932, .	3.4	7
4	Inverse analysis of material parameters in coupled multi-physics biofilm models. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2022, 9, .	1.7	1
5	A consistent and versatile computational approach for general fluidâ€œstructureâ€œcontact interaction problems. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 5279-5312.	2.8	8
6	High-order arbitrary Lagrangianâ€œEulerian discontinuous Galerkin methods for the incompressible Navierâ€œStokes equations. <i>Journal of Computational Physics</i> , 2021, 430, 110040.	3.8	8
7	Investigation of the peeling and pull-off behavior of adhesive elastic fibers via a novel computational beam interaction model. <i>Journal of Adhesion</i> , 2021, 97, 730-759.	3.0	7
8	Directed force propagation in semiflexible networks. <i>Soft Matter</i> , 2021, 17, 10223-10241.	2.7	4
9	Topological defects produce kinks in biopolymer filament bundles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	6
10	A runtime based comparison of highly tuned lattice Boltzmann and finite difference solvers. <i>International Journal of High Performance Computing Applications</i> , 2021, 35, 370-390.	3.7	5
11	Algebraic multigrid methods for saddle point systems arising from mortar contact formulations. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 3749-3779.	2.8	9
12	A novel modelling and simulation approach for the hindered mobility of charged particles in biological hydrogels. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, 20210039.	2.1	6
13	Global Sensitivity Analysis of a Homogenized Constrained Mixture Model of Arterial Growth and Remodeling. <i>Journal of Elasticity</i> , 2021, 145, 191-221.	1.9	9
14	A computational framework for modeling cellâ€œmatrix interactions in soft biological tissues. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1851-1870.	2.8	23
15	An SPH framework for fluidâ€œsolid and contact interaction problems including thermo-mechanical coupling and reversible phase transitions. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2021, 8, .	1.7	6
16	What do cells regulate in soft tissues on short time scales?. <i>Acta Biomaterialia</i> , 2021, 134, 348-356.	8.3	5
17	Validation and parameter optimization of a hybrid embedded/homogenized solid tumor perfusion model. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3508.	2.1	4
18	In silico numerical simulation of ventilator settings during highâ€œfrequency ventilation in preterm infants. <i>Pediatric Pulmonology</i> , 2021, 56, 3839-3846.	2.0	1

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19	A novel smoothed particle hydrodynamics formulation for thermo-capillary phase change problems with focus on metal additive manufacturing melt pool modeling. Computer Methods in Applied Mechanics and Engineering, 2021, 381, 113812.	6.6	36
20	Physics-based modeling and predictive simulation of powder bed fusion additive manufacturing across length scales. GAMM Mitteilungen, 2021, 44, e202100014.	5.5	12
21	A novel smoothed particle hydrodynamics and finite element coupling scheme for fluid-structure interaction: The sliding boundary particle approach. Computer Methods in Applied Mechanics and Engineering, 2021, 383, 113922.	6.6	21
22	A consistent computational approach for general fluid-poroelasticity-structure-contact interaction problems. Journal of Computational Physics, 2021, 441, 110450.	3.8	0
23	Spatial mapping of powder layer density for metal additive manufacturing via transmission X-ray imaging. Additive Manufacturing, 2021, 46, 102197.	3.0	4
24	A simple yet consistent constitutive law and mortar-based layer coupling schemes for thermomechanical macroscale simulations of metal additive manufacturing processes. Advanced Modeling and Simulation in Engineering Sciences, 2021, 8, .	1.7	5
25	A next-generation discontinuous galerkin fluid dynamics solver with application to high-resolution lung airflow simulations. , 2021, , .		6
26	On the role of (weak) compressibility for fluid-structure interaction solvers. International Journal for Numerical Methods in Fluids, 2020, 92, 129-147.	1.6	6
27	A weakly compressible hybridizable discontinuous Galerkin formulation for fluid-structure interaction problems. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113392.	6.6	13
28	Repulsive Backbone-Backbone Interactions Modulate Access to Specific and Unspecific Binding Sites on Surface-Bound Mucins. Langmuir, 2020, 36, 12973-12982.	3.5	8
29	Extension of a multiphase tumour growth model to study nanoparticle delivery to solid tumours. PLoS ONE, 2020, 15, e0228443.	2.5	18
30	Using parametric model order reduction for inverse analysis of large nonlinear cardiac simulations. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3320.	2.1	21
31	A computational model for molecular interactions between curved slender fibers undergoing large 3D deformations with a focus on electrostatic, van der Waals, and repulsive steric forces. International Journal for Numerical Methods in Engineering, 2020, 121, 2285-2330.	2.8	9
32	ExaDG: High-Order Discontinuous Galerkin for the Exa-Scale. Lecture Notes in Computational Science and Engineering, 2020, , 189-224.	0.3	18
33	Hybrid multigrid methods for high-order discontinuous Galerkin discretizations. Journal of Computational Physics, 2020, 415, 109538.	3.8	21
34	On phase change and latent heat models in metal additive manufacturing process simulation. Advanced Modeling and Simulation in Engineering Sciences, 2020, 7, .	1.7	21
35	Extension of a multiphase tumour growth model to study nanoparticle delivery to solid tumours. , 2020, 15, e0228443.		0
36	Extension of a multiphase tumour growth model to study nanoparticle delivery to solid tumours. , 2020, 15, e0228443.		0

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37	Extension of a multiphase tumour growth model to study nanoparticle delivery to solid tumours. , 2020, 15, e0228443.		0
38	Extension of a multiphase tumour growth model to study nanoparticle delivery to solid tumours. , 2020, 15, e0228443.		0
39	Practical applicability of optimizations and performance models to complex stencil-based loop kernels in CFD. International Journal of High Performance Computing Applications, 2019, 33, 602-618.	3.7	5
40	Computational Modeling of Respiratory Biomechanics. , 2019, , 70-80.		0
41	Constituent-specific material behavior of soft biological tissue: experimental quantification and numerical identification for lung parenchyma. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1383-1400.	2.8	17
42	An approach for vascular tumor growth based on a hybrid embedded/homogenized treatment of the vasculature within a multiphase porous medium model. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3253.	2.1	26
43	An academic approach to the multidisciplinary development of liquid-oxygen turbopumps for space applications. CEAS Space Journal, 2019, 11, 193-203.	2.3	0
44	Modern discontinuous Galerkin methods for the simulation of transitional and turbulent flows in biomedical engineering: A comprehensive LES study of the FDA benchmark nozzle model. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3228.	2.1	12
45	A consistent approach for fluid-structure-contact interaction based on a porous flow model for rough surface contact. International Journal for Numerical Methods in Engineering, 2019, 119, 1345-1378.	2.8	23
46	Challenges of order reduction techniques for problems involving polymorphic uncertainty. GAMM Mitteilungen, 2019, 42, e201900011.	5.5	5
47	Parallel, physics-oriented, monolithic solvers for three-dimensional, coupled finite element models of lithium-ion cells. Computer Methods in Applied Mechanics and Engineering, 2019, 350, 803-835.	6.6	10
48	A Nitsche-based cut finite element method for the coupling of incompressible fluid flow with poroelasticity. Computer Methods in Applied Mechanics and Engineering, 2019, 351, 253-280.	6.6	23
49	Automatic mapping of atrial fiber orientations for patient-specific modeling of cardiac electromechanics using image registration. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3190.	2.1	11
50	Monolithic cut finite element-based approaches for fluid-structure interaction. International Journal for Numerical Methods in Engineering, 2019, 119, 757-796.	2.8	28
51	Multifidelity approaches for uncertainty quantification. GAMM Mitteilungen, 2019, 42, e201900008.	5.5	7
52	Conformation of a semiflexible filament in a quenched random potential. Physical Review E, 2019, 99, 042501.	2.1	4
53	A coupled approach for identification of nonlinear and compressible material models for soft tissue based on different experimental setups – Exemplified and detailed for lung parenchyma. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 94, 126-143.	3.1	18
54	A viscoelastic nonlinear compressible material model of lung parenchyma – Experiments and numerical identification. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 94, 164-175.	3.1	29

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55	A monolithic approach to fluid-structure interaction based on a hybrid Eulerian-ALE fluid domain decomposition involving cut elements. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 119, 208-237.	2.8	17
56	A multiscale approach to hybrid RANS/LES wall modeling within a high-order discontinuous Galerkin scheme using function enrichment. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 90, 81-113.	1.6	7
57	Fast Matrix-Free Evaluation of Hybridizable Discontinuous Galerkin Operators. <i>Lecture Notes in Computational Science and Engineering</i> , 2019, , 581-589.	0.3	6
58	A matrix-free high-order discontinuous Galerkin compressible Navier-Stokes solver: A performance comparison of compressible and incompressible formulations for turbulent incompressible flows. <i>International Journal for Numerical Methods in Fluids</i> , 2019, 89, 71-102.	1.6	20
59	Wall modeling via function enrichment: Extension to detached-eddy simulation. <i>Computers and Fluids</i> , 2019, 179, 718-725.	2.5	4
60	Modeling and characterization of cohesion in fine metal powders with a focus on additive manufacturing process simulations. <i>Powder Technology</i> , 2019, 343, 855-866.	4.2	107
61	ExWave: A high performance discontinuous Galerkin solver for the acoustic wave equation. <i>SoftwareX</i> , 2019, 9, 49-54.	2.6	14
62	The importance of the pericardium for cardiac biomechanics: from physiology to computational modeling. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 503-529.	2.8	78
63	Critical influences of particle size and adhesion on the powder layer uniformity in metal additive manufacturing. <i>Journal of Materials Processing Technology</i> , 2019, 266, 484-501.	6.3	183
64	Nitsche's method for finite deformation thermomechanical contact problems. <i>Computational Mechanics</i> , 2019, 63, 1091-1110.	4.0	26
65	Geometrically Exact Finite Element Formulations for Slender Beams: Kirchhoff's Love Theory Versus Simo's Reissner Theory. <i>Archives of Computational Methods in Engineering</i> , 2019, 26, 163-243.	10.2	114
66	A monolithic, mortar-based interface coupling and solution scheme for finite element simulations of lithium-ion cells. <i>International Journal for Numerical Methods in Engineering</i> , 2018, 114, 1411-1437.	2.8	12
67	An extended algebraic variational multiscale-multigrid-multifractal method (XAVM4) for large-eddy simulation of turbulent two-phase flow. <i>Journal of Computational Physics</i> , 2018, 359, 1-19.	3.8	7
68	Arbitrary High-Order Explicit Hybridizable Discontinuous Galerkin Methods for the Acoustic Wave Equation. <i>Journal of Scientific Computing</i> , 2018, 76, 969-1006.	2.3	13
69	A strongly coupled partitioned approach for fluid-structure-fracture interaction. <i>International Journal for Numerical Methods in Fluids</i> , 2018, 87, 90-108.	1.6	6
70	Adaptive time stepping for fluid-structure interaction solvers. <i>Finite Elements in Analysis and Design</i> , 2018, 141, 55-69.	3.2	25
71	An adaptive hybridizable discontinuous Galerkin approach for cardiac electrophysiology. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2959.	2.1	15
72	Wall modeling via function enrichment within a high-order DG method for RANS simulations of incompressible flow. <i>International Journal for Numerical Methods in Fluids</i> , 2018, 86, 107-129.	1.6	16

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73	Benchmark problems for numerical treatment of backflow at open boundaries. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2918.	2.1	40
74	Geometrically exact beam elements and smooth contact schemes for the modeling of fiber-based materials and structures. International Journal of Solids and Structures, 2018, 154, 124-146.	2.7	36
75	Analytical integration of 0th, 2nd, and 4th order polynomial filtering functions on unstructured grid for dispersed phase fraction computation in an Euler-Lagrange approach. International Journal of Multiphase Flow, 2018, 98, 147-157.	3.4	0
76	A Novel Approach for Wall Modeling in LES of Wall-Bounded High-Reynolds-Number Flow via Function Enrichment. ERCOFTAC Series, 2018, , 191-197.	0.1	1
77	A curvilinear high order finite element framework for electromechanics: From linearised electro-elasticity to massively deformable dielectric elastomers. Computer Methods in Applied Mechanics and Engineering, 2018, 329, 75-117.	6.6	29
78	A stabilized Nitsche cut finite element method for the Oseen problem. Computer Methods in Applied Mechanics and Engineering, 2018, 328, 262-300.	6.6	45
79	A New High-Order Discontinuous Galerkin Solver for DNS and LES of Turbulent Incompressible Flow. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2018, , 467-477.	0.3	2
80	A Nitsche cut finite element method for the Oseen problem with general Navier boundary conditions. Computer Methods in Applied Mechanics and Engineering, 2018, 330, 220-252.	6.6	37
81	Algebraic multigrid methods for dual mortar finite element formulations in contact mechanics. International Journal for Numerical Methods in Engineering, 2018, 114, 399-430.	2.8	13
82	A mortar finite element approach for point, line, and surface contact. International Journal for Numerical Methods in Engineering, 2018, 114, 255-291.	2.8	13
83	Experimental characterization and model identification of the nonlinear compressible material behavior of lung parenchyma. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 754-763.	3.1	13
84	The impact of personalized probabilistic wall thickness models on peak wall stress in abdominal aortic aneurysms. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2922.	2.1	18
85	Optoacoustic image reconstruction: the full inverse problem with variable bases. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20180369.	2.1	5
86	Efficient Explicit Time Stepping of High Order Discontinuous Galerkin Schemes for Waves. SIAM Journal of Scientific Computing, 2018, 40, C803-C826.	2.8	16
87	A Performance Comparison of Continuous and Discontinuous Galerkin Methods with Fast Multigrid Solvers. SIAM Journal of Scientific Computing, 2018, 40, A3423-A3448.	2.8	59
88	Gas exchange mechanisms in preterm infants on HFOV – a computational approach. Scientific Reports, 2018, 8, 13008.	3.3	16
89	A coupled approach for fluid saturated poroelastic media and immersed solids for modeling cell-tissue interactions. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3139.	2.1	6
90	Efficiency of high-performance discontinuous Galerkin spectral element methods for under-resolved turbulent incompressible flows. International Journal for Numerical Methods in Fluids, 2018, 88, 32-54.	1.6	31

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91	Robust and efficient discontinuous Galerkin methods for under-resolved turbulent incompressible flows. <i>Journal of Computational Physics</i> , 2018, 372, 667-693.	3.8	32
92	Direct Numerical Simulation of Flow over Periodic Hills up to $Re_H = 10^5$ . <i>Flow, Turbulence and Combustion</i> , 2018, 101, 521-551.	2.6	30
93	A monolithic multiphase porous medium framework for (a-)vascular tumor growth. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 340, 657-683.	6.6	20
94	A truly variationally consistent and symmetric mortar-based contact formulation for finite deformation solid mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 342, 532-560.	6.6	8
95	A computational approach for thermo-elasto-plastic frictional contact based on a monolithic formulation using non-smooth nonlinear complementarity functions. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2018, 5, .	1.7	14
96	Efficient solvers for coupled models in respiratory mechanics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e02795.	2.1	8
97	A comprehensive computational human lung model incorporating inter-vascular dependencies: Application to spontaneous breathing and mechanical ventilation. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e02787.	2.1	36
98	Probabilistic noninvasive prediction of wall properties of abdominal aortic aneurysms using Bayesian regression. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 45-61.	2.8	28
99	Dynamic modeling of uteroplacental blood flow in IUGR indicates vortices and elevated pressure in the intervillous space – a pilot study. <i>Scientific Reports</i> , 2017, 7, 40771.	3.3	38
100	A unified approach for beam-to-beam contact. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 315, 972-1010.	6.6	57
101	Determination of Transport Parameters in Liquid Binary Lithium Ion Battery Electrolytes. <i>Journal of the Electrochemical Society</i> , 2017, 164, A826-A836.	2.9	76
102	Multiphysics Modeling of the Atrial Systole under Standard Ablation Strategies. <i>Cardiovascular Engineering and Technology</i> , 2017, 8, 205-218.	1.6	7
103	Photoacoustic image reconstruction: material detection and acoustical heterogeneities. <i>Inverse Problems</i> , 2017, 33, 055010.	2.0	3
104	Coupling of EIT with computational lung modeling for predicting patient-specific ventilatory responses. <i>Journal of Applied Physiology</i> , 2017, 122, 855-867.	2.5	15
105	Maximum likelihood estimation of cardiac fiber bundle orientation from arbitrarily spaced diffusion weighted images. <i>Medical Image Analysis</i> , 2017, 39, 56-77.	11.6	9
106	A biochemo-mechano coupled, computational model combining membrane transport and pericellular proteolysis in tissue mechanics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20160812.	2.1	6
107	On the stability of projection methods for the incompressible Navier–Stokes equations based on high-order discontinuous Galerkin discretizations. <i>Journal of Computational Physics</i> , 2017, 351, 392-421.	3.8	31
108	On the Use of Compressed Polyhedral Quadrature Formulas in Embedded Interface Methods. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, B571-B587.	2.8	9

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109	A high-order semi-explicit discontinuous Galerkin solver for 3D incompressible flow with application to DNS and LES of turbulent channel flow. <i>Journal of Computational Physics</i> , 2017, 348, 634-659.	3.8	59
110	A simplified parametrised model for lung microstructures capable of mimicking realistic geometrical and mechanical properties. <i>Computers in Biology and Medicine</i> , 2017, 89, 104-114.	7.0	13
111	Determination of Transport Parameters in Liquid Binary Electrolytes: Part II. Transference Number. <i>Journal of the Electrochemical Society</i> , 2017, 164, A2716-A2731.	2.9	33
112	Mesh refitting approach: a simple method to model mixed-mode crack propagation in nonlinear elastic solids. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2017, 4, .	1.7	6
113	An implicit finite wear contact formulation based on dual mortar methods. <i>International Journal for Numerical Methods in Engineering</i> , 2017, 111, 325-353.	2.8	11
114	Computational modelling of the respiratory system: Discussion of coupled modelling approaches and two recent extensions. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 314, 473-493.	6.6	31
115	Fluid-structure interaction including volumetric coupling with homogenised subdomains for modeling respiratory mechanics. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2812.	2.1	14
116	Comparison of implicit and explicit hybridizable discontinuous Galerkin methods for the acoustic wave equation. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 106, 712-739.	2.8	30
117	Volumetric coupling approaches for multiphysics simulations on non-matching meshes. <i>International Journal for Numerical Methods in Engineering</i> , 2016, 108, 1550-1576.	2.8	6
118	Pressure-stabilized maximum-entropy methods for incompressible Stokes. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 82, 35-56.	1.6	8
119	A stabilized Nitsche-type extended embedding mesh approach for 3D low- and high-Reynolds number flows. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 82, 289-315.	1.6	12
120	A finite element approach for the line-to-line contact interaction of thin beams with arbitrary orientation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 308, 377-413.	6.6	55
121	A new approach to wall modeling in LES of incompressible flow via function enrichment. <i>Journal of Computational Physics</i> , 2016, 316, 94-116.	3.8	18
122	Beam finite-element model of a molecular motor for the simulation of active fibre networks. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20150555.	2.1	6
123	Direct Electrochemical Determination of Thermodynamic Factors in Aprotic Binary Electrolytes. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1254-A1264.	2.9	41
124	Unified computational framework for the efficient solution of $n$ -field coupled problems with monolithic schemes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 310, 335-366.	6.6	31
125	Discontinuous bundling transition in semiflexible polymer networks induced by Casimir interactions. <i>Physical Review E</i> , 2016, 94, 032505.	2.1	7
126	Tortuosity Determination of Battery Electrodes and Separators by Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2016, 163, A1373-A1387.	2.9	419



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127	Computational evaluation of aortic occlusion and the proposal of a novel, improved occluder: Constrained endo-aortic balloon occlusion. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016, 32, e02773.	2.1	0
128	Isogeometric dual mortar methods for computational contact mechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 301, 259-280.	6.6	77
129	A cut-cell finite volume – finite element coupling approach for fluid–structure interaction in compressible flow. <i>Journal of Computational Physics</i> , 2016, 307, 670-695.	3.8	51
130	Two finite element approaches for Darcy and Darcy–Brinkman flow through deformable porous media – Mixed method vs. NURBS based (isogeometric) continuity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2016, 305, 634-657.	6.6	9
131	Computational analysis of morphologies and phase transitions of cross-linked, semi-flexible polymer networks. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2015, 471, 20150332.	2.1	13
132	A four-way coupled Euler–Lagrange approach using a variational multiscale method for simulating cavitation. <i>Journal of Physics: Conference Series</i> , 2015, 656, 012125.	0.4	1
133	A face-oriented stabilized Nitsche-type extended variational multiscale method for incompressible two-phase flow. <i>International Journal for Numerical Methods in Engineering</i> , 2015, 104, 721-748.	2.8	48
134	Material modeling of cardiac valve tissue: Experiments, constitutive analysis and numerical investigation. <i>Journal of Biomechanics</i> , 2015, 48, 4287-4296.	2.1	7
135	Resolution of sub-element length scales in Brownian dynamics simulations of biopolymer networks with geometrically exact beam finite elements. <i>Journal of Computational Physics</i> , 2015, 303, 185-202.	3.8	19
136	Segment-based vs. element-based integration for mortar methods in computational contact mechanics. <i>Computational Mechanics</i> , 2015, 55, 209-228.	4.0	63
137	Towards efficient uncertainty quantification in complex and large-scale biomechanical problems based on a Bayesian multi-fidelity scheme. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015, 14, 489-513.	2.8	76
138	A Temporal Consistent Monolithic Approach to Fluid-Structure Interaction Enabling Single Field Predictors. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, B30-B59.	2.8	35
139	Interactions of biomechanics with extracellular matrix components in abdominal aortic aneurysm wall. <i>Atherosclerosis</i> , 2015, 241, e185.	0.8	0
140	Interaction of Biomechanics with Extracellular Matrix Components in Abdominal Aortic Aneurysm Wall. <i>European Journal of Vascular and Endovascular Surgery</i> , 2015, 50, 167-174.	1.5	23
141	A single charge in the actin binding domain of fascin can independently tune the linear and non-linear response of an actin bundle network. <i>European Physical Journal E</i> , 2015, 38, 136.	1.6	11
142	Correlation between alveolar ventilation and electrical properties of lung parenchyma. <i>Physiological Measurement</i> , 2015, 36, 1211-1226.	2.1	23
143	A locking-free finite element formulation and reduced models for geometrically exact Kirchhoff rods. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 290, 314-341.	6.6	54
144	A semi-smooth Newton method for orthotropic plasticity and frictional contact at finite strains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 285, 228-254.	6.6	24

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145	A general approach for modeling interacting flow through porous media under finite deformations. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 1240-1259.	6.6	50
146	Cardiac Fibers Estimation from Arbitrarily Spaced Diffusion Weighted MRI. Lecture Notes in Computer Science, 2015, , 198-206.	1.3	3
147	Dual mortar methods for computational contact mechanics “ overview and recent developments. GAMM Mitteilungen, 2014, 37, 66-84.	5.5	46
148	Multifractal subgrid-scale modeling within a variational multiscale method for large-eddy simulation of passive-scalar mixing in turbulent flow at low and high Schmidt numbers. Physics of Fluids, 2014, 26, .	4.0	6
149	Publisher’s Note: Rheology of Semiflexible Bundle Networks with Transient Linkers [Phys. Rev. Lett. 112, 238102 (2014)]. Physical Review Letters, 2014, 113, .	7.8	4
150	Biomechanics and gene expression in abdominal aortic aneurysm. Journal of Vascular Surgery, 2014, 60, 1640-1647.e2.	1.1	9
151	A combined fluid–structure interaction and multi-field scalar transport model for simulating mass transport in biomechanics. International Journal for Numerical Methods in Engineering, 2014, 100, 277-299.	2.8	11
152	Rheology of Semiflexible Bundle Networks with Transient Linkers. Physical Review Letters, 2014, 112, 238102.	7.8	61
153	A stable approach for coupling multidimensional cardiovascular and pulmonary networks based on a novel pressure–flow rate or pressure–only Neumann boundary condition formulation. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 447-469.	2.1	18
154	Influence of unsteady aerodynamics on driving dynamics of passenger cars. Vehicle System Dynamics, 2014, 52, 1470-1488.	3.7	13
155	A new face-oriented stabilized XFEM approach for 2D and 3D incompressible Navier–Stokes equations. Computer Methods in Applied Mechanics and Engineering, 2014, 276, 233-265.	6.6	66
156	A semi-Lagrangean time-integration approach for extended finite element methods. International Journal for Numerical Methods in Engineering, 2014, 98, 174-202.	2.8	9
157	A dual mortar approach for mesh tying within a variational multiscale method for incompressible flow. International Journal for Numerical Methods in Fluids, 2014, 76, 1-27.	1.6	15
158	Numerical identification method for the non-linear viscoelastic compressible behavior of soft tissue using uniaxial tensile tests and image registration “ Application to rat lung parenchyma. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 29, 360-374.	3.1	30
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