Ellen Kuhl

List of Publications by Year
in descending order

314 papers	16,494 citations	13818 67 h-index	26426 108 g-index
359 all docs	359 docs citations	359 times ranked	14001 citing authors

#	Article	IF	Citations
1	On automated model discovery and a universal material subroutine for hyperelastic materials. Computer Methods in Applied Mechanics and Engineering, 2024, 418, 116534.	6.7	16
2	Discovering a reactionâ€“diffusion model for Alzheimerâ€™s disease by combining PINNs with symbolic regression. Computer Methods in Applied Mechanics and Engineering, 2024, 419, 116647.	6.7	10
3	On sparse regression, <i>L</i>_{<i>p</i>}â€regularization, and automated model discovery. International Journal for Numerical Methods in Engineering, 2024, 125, .	2.9	6
4	Best-in-class modeling: A novel strategy to discover constitutive models for soft matter systems. Extreme Mechanics Letters, 2024, 70, 102181.	4.2	2
5	Minimal Design of the Elephant Trunk as an Active Filament. Physical Review Letters, 2024, 132, .	8.0	2
6	Automated model discovery for human cardiac tissue: Discovering the best model and parameters. Computer Methods in Applied Mechanics and Engineering, 2024, 428, 117078.	6.7	2
7	Minimal activation with maximal reach: Reachability clouds of bio-inspired slender manipulators. Extreme Mechanics Letters, 2024, 71, 102207.	4.2	0
8	Automated data-driven discovery of material models based on symbolic regression: A case study on the human brain cortex. Acta Biomaterialia, 2024, , .	8.8	0
9	Automated model discovery for textile structures: The unique mechanical signature of warp knitted fabrics. Acta Biomaterialia, 2024, , .	8.8	0
10	Mechanics of axon growth and damage: A systematic review of computational models. Seminars in Cell and Developmental Biology, 2023, 140, 13-21.	5.4	5
11	A new family of Constitutive Artificial Neural Networks towards automated model discovery. Computer Methods in Applied Mechanics and Engineering, 2023, 403, 115731.	6.7	76
12	A Simulation Tool for Physics-Informed Control of Biomimetic Soft Robotic Arms. IEEE Robotics and Automation Letters, 2023, 8, 936-943.	5.2	6
13	Automated model discovery for skin: Discovering the best model, data, and experiment. Computer Methods in Applied Mechanics and Engineering, 2023, 410, 116007.	6.7	16
14	Automated model discovery for human brain using Constitutive Artificial Neural Networks. Acta Biomaterialia, 2023, 160, 134-151.	8.8	34
15	Bayesian design optimization of biomimetic soft actuators. Computer Methods in Applied Mechanics and Engineering, 2023, 408, 115939.	6.7	5
16	Principal-stretch-based constitutive neural networks autonomously discover a subclass of Ogden models for human brain tissue. Brain Multiphysics, 2023, 4, 100066.	2.4	21
17	Evaluating Passive Myocardial Stiffness Using in vivo cine, cDTI, andÂ Tagged MRI. Lecture Notes in Computer Science, 2023, , 527-536.	1.0	0
18	Automated model discovery for muscle using constitutive recurrent neural networks. Journal of the Mechanical Behavior of Biomedical Materials, 2023, 145, 106021.	3.1	13

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19	Discovering the mechanics of artificial and real meat. Computer Methods in Applied Mechanics and Engineering, 2023, 415, 116236.	6.7	14
20	Growth and remodeling in the pulmonary autograft: Computational evaluation using kinematic growth models and constrained mixture theory. International Journal for Numerical Methods in Biomedical Engineering, 2022, 38, e3545.	2.2	9
21	Sex Matters: A Comprehensive Comparison of Female and Male Hearts. Frontiers in Physiology, 2022, 13, 831179.	2.8	77
22	How drugs modulate the performance of the human heart. Computational Mechanics, 2022, 69, 1397-1411.	4.0	7
23	How viscous is the beating heart? Insights from a computational study. Computational Mechanics, 2022, 70, 565-579.	4.0	4
24	Correlating tau pathology to brain atrophy using a physics-based Bayesian model. Engineering With Computers, 2022, 38, 3867-3877.	5.8	9
25	Bayesian Physics Informed Neural Networks for real-world nonlinear dynamical systems. Computer Methods in Applied Mechanics and Engineering, 2022, 402, 115346.	6.7	50
26	Rheology of growing axons. Physical Review Research, 2022, 4, .	3.6	2
27	Correlating the microstructural architecture and macrostructural behaviour of the brain. Acta Biomaterialia, 2022, 151, 379-395.	8.8	8
28	Multiscale Modeling Meets Machine Learning: What Can We Learn?. Archives of Computational Methods in Engineering, 2021, 28, 1017-1037.	10.6	191
29	Are college campuses superspreaders? A data-driven modeling study. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1136-1145.	1.7	69
30	Global and local mobility as a barometer for COVID-19 dynamics. Biomechanics and Modeling in Mechanobiology, 2021, 20, 651-669.	3.0	46
31	A Framework for Evaluating Myocardial Stiffness Using 3D-Printed Heart Phantoms. Lecture Notes in Computer Science, 2021, , 305-314.	1.0	2
32	Precision medicine in human heart modeling. Biomechanics and Modeling in Mechanobiology, 2021, 20, 803-831.	3.0	107
33	Bayesian Physics-Based Modeling of Tau Propagation in Alzheimer's Disease. Frontiers in Physiology, 2021, 12, 702975.	2.8	17
34	COVID-19 dynamics across the US: A deep learning study of human mobility and social behavior. Computer Methods in Applied Mechanics and Engineering, 2021, 382, 113891.	6.7	35
35	Effects of B.1.1.7 and B.1.351 on COVID-19 Dynamics: A Campus Reopening Study. Archives of Computational Methods in Engineering, 2021, 28, 4225-4236.	10.6	4
36	Sex Differences in Drug-Induced Arrhythmogenesis. Frontiers in Physiology, 2021, 12, 708435.	2.8	15

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37	Predicting brain atrophy from tau pathology: a summary of clinical findings and their translation into personalized models. Brain Multiphysics, 2021, 2, 100039.	2.4	17
38	Fifty Shades of Brain: A Review on the Mechanical Testing and Modeling of Brain Tissue. Archives of Computational Methods in Engineering, 2020, 27, 1187-1230.	10.6	256
39	Viscoelasticity of the axon limits stretch-mediated growth. Computational Mechanics, 2020, 65, 587-595.	4.0	13
40	Modeling the life cycle of the human brain. Current Opinion in Biomedical Engineering, 2020, 15, 16-25.	3.7	15
41	Towards microstructure-informed material models for human brain tissue. Acta Biomaterialia, 2020, 104, 53-65.	8.8	67
42	Spatially-extended nucleation-aggregation-fragmentation models for the dynamics of prion-like neurodegenerative protein-spreading in the brain and its connectome. Journal of Theoretical Biology, 2020, 486, 110102.	1.7	42
43	Editorial overview: Biomechanics and mechanobiology of tissue growth and remodeling: Current opinions. Current Opinion in Biomedical Engineering, 2020, 15, A1-A2.	3.7	0
44	Visualizing the invisible: The effect of asymptomatic transmission on the outbreak dynamics of COVID-19. Computer Methods in Applied Mechanics and Engineering, 2020, 372, 113410.	6.7	61
45	The reproduction number of COVID-19 and its correlation with public health interventions. Computational Mechanics, 2020, 66, 1035-1050.	4.0	158
46	Is it safe to lift COVID-19 travel bans? The Newfoundland story. Computational Mechanics, 2020, 66, 1081-1092.	4.0	58
47	Neuronal Oscillations on Evolving Networks: Dynamics, Damage, Degradation, Decline, Dementia, and Death. Physical Review Letters, 2020, 125, 128102.	8.0	32
48	Modeling and simulation of infectious diseases. Computational Mechanics, 2020, 66, 1053-1053.	4.0	0
49	Network Diffusion Modeling Explains Longitudinal Tau PET Data. Frontiers in Neuroscience, 2020, 14, 566876.	2.9	19
50	Folding drives cortical thickness variations. European Physical Journal: Special Topics, 2020, 229, 2757-2778.	2.6	11
51	Outbreak dynamics of COVID-19 in Europe and the effect of travel restrictions. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 710-717.	1.7	252
52	Physics-Informed Neural Networks for Cardiac Activation Mapping. Frontiers in Physics, 2020, 8, .	2.2	200
53	Special Issue on Uncertainty Quantification, Machine Learning, and Data-Driven Modeling of Biological Systems. Computer Methods in Applied Mechanics and Engineering, 2020, 362, 112832.	6.7	1
54	Nervous Tissue Stiffens Postinjury. Biophysical Journal, 2020, 118, 276-278.	0.5	0

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55	Classifying Drugs by their Arrhythmogenic Risk Using Machine Learning. Biophysical Journal, 2020, 118, 1165-1176.	0.5	27
56	Outbreak dynamics of COVID-19 in China and the United States. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2179-2193.	3.0	132
57	Data-driven modeling of COVID-19â€"Lessons learned. Extreme Mechanics Letters, 2020, 40, 100921.	4.2	54
58	Growth and remodelling of living tissues: perspectives, challenges and opportunities. Journal of the Royal Society Interface, 2019, 16, 20190233.	3.4	159
59	Connectomics of neurodegeneration. Nature Neuroscience, 2019, 22, 1200-1202.	14.5	6
60	Prion-like spreading of Alzheimerâ€™s disease within the brainâ€™s connectome. Journal of the Royal Society Interface, 2019, 16, 20190356.	3.4	84
61	Multi-fidelity classification using Gaussian processes: Accelerating the prediction of large-scale computational models. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112602.	6.7	31
62	Multiscale characterization of heart failure. Acta Biomaterialia, 2019, 86, 66-76.	8.8	30
63	A computational model to predict cell traction-mediated prestretch in the mitral valve. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 1174-1185.	1.7	4
64	Using machine learning to characterize heart failure across the scales. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1987-2001.	3.0	63
65	The interplay of biochemical and biomechanical degeneration in Alzheimerâ€™s disease. Computer Methods in Applied Mechanics and Engineering, 2019, 352, 369-388.	6.7	25
66	Modeling neurodegeneration in chronic traumatic encephalopathy using gradient damage models. Computational Mechanics, 2019, 64, 1375-1387.	4.0	19
67	Revisiting the wrinkling of elastic bilayersÂI: linear analysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180076.	3.5	29
68	Machine learning in drug development: Characterizing the effect of 30 drugs on the QT interval using Gaussian process regression, sensitivity analysis, and uncertainty quantification. Computer Methods in Applied Mechanics and Engineering, 2019, 348, 313-333.	6.7	80
69	Understanding the mechanical link between oriented cell division and cerebellar morphogenesis. Soft Matter, 2019, 15, 2204-2215.	2.8	22
70	Do annuloplasty rings designed to treat ischemic/functional mitral regurgitation alter left-ventricular dimensions in the acutely ischemic ovine heart?. Journal of Thoracic and Cardiovascular Surgery, 2019, 158, 1058-1068.	2.7	8
71	On the implementation of finite deformation gradient-enhanced damage models. Computational Mechanics, 2019, 64, 847-877.	4.0	47
72	Challenges and perspectives in brain tissue testing and modeling. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900269.	0.2	4

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73	Integrating machine learning and multiscale modelingâ€"perspectives, challenges, and opportunities in the biological, biomedical, and behavioral sciences. Npj Digital Medicine, 2019, 2, 115.	11.3	375
74	The Shrinking Brain: Cerebral Atrophy Following Traumatic Brain Injury. Annals of Biomedical Engineering, 2019, 47, 1941-1959.	2.6	85
75	Predicting critical drug concentrations and torsadogenic risk using a multiscale exposure-response simulator. Progress in Biophysics and Molecular Biology, 2019, 144, 61-76.	3.0	11
76	A physics-based model explains the prion-like features of neurodegeneration in Alzheimerâ€™s disease, Parkinsonâ€™s disease, and amyotrophic lateral sclerosis. Journal of the Mechanics and Physics of Solids, 2019, 124, 264-281.	4.9	88
77	Predicting the cardiac toxicity of drugs using a novel multiscale exposureâ€"response simulator. Computer Methods in Biomechanics and Biomedical Engineering, 2018, 21, 232-246.	1.7	27
78	Predicting drugâ€induced arrhythmias by multiscale modeling. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2964.	2.2	31
79	Growth and remodeling play opposing roles during postnatal human heart valve development. Scientific Reports, 2018, 8, 1235.	3.4	19
80	A physical multifield model predicts the development of volume and structure in the human brain. Journal of the Mechanics and Physics of Solids, 2018, 112, 563-576.	4.9	26
81	Microtubule Polymerization and Cross-Link Dynamics Explain Axonal Stiffness and Damage. Biophysical Journal, 2018, 114, 201-212.	0.5	37
82	On skin microrelief and the emergence of expression micro-wrinkles. Soft Matter, 2018, 14, 1292-1300.	2.8	45
83	Improving tissue expansion protocols through computational modeling. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 82, 224-234.	3.1	24
84	Determining the Differential Effects of Stretch and Growth in Tissue-Expanded Skin: Combining Isogeometric Analysis and Continuum Mechanics in a Porcine Model. Dermatologic Surgery, 2018, 44, 48-52.	0.9	14
85	Passive Stretch Induces Structural and Functional Maturation of Engineered Heart Muscle as Predicted by Computational Modeling. Stem Cells, 2018, 36, 265-277.	3.6	118
86	Magnetic resonance elastography of the brain: A comparison between pigs and humans. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 702-710.	3.1	53
87	Interpreting Activation Mapping of Atrial Fibrillation: A Hybrid Computational/Physiological Study. Annals of Biomedical Engineering, 2018, 46, 257-269.	2.6	16
88	Regionâ€•and loadingâ€specific finite viscoelasticity of human brain tissue. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800169.	0.2	7
89	Symmetry Breaking in Wrinkling Patterns: Gyri Are Universally Thicker than Sulci. Physical Review Letters, 2018, 121, 228002.	8.0	51
90	Modeling the Axon as an Active Partner with the Growth Cone in Axonal Elongation. Biophysical Journal, 2018, 115, 1783-1795.	0.5	27

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91	Multiphysics of Prionlike Diseases: Progression and Atrophy. Physical Review Letters, 2018, 121, 158101.	8.0	91
92	Brain stiffens post mortem. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 84, 88-98.	3.1	72
93	Physical Biology of Axonal Damage. Frontiers in Cellular Neuroscience, 2018, 12, 144.	3.8	23
94	Mechanical Cues in Spinal Cord Injury. Biophysical Journal, 2018, 115, 751-753.	0.5	2
95	Title is missing!. , 2018, , .		2
96	A virtual sizing tool for mitral valve annuloplasty. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e02788.	2.2	34
97	The Pursuit of Engineering the Ideal Heart Valve Replacement or Repair: A Special Issue of the Annals of Biomedical Engineering. Annals of Biomedical Engineering, 2017, 45, 307-309.	2.6	10
98	The mechanical importance of myelination in the central nervous system. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 76, 119-124.	3.1	63
99	A family of hyperelastic models for human brain tissue. Journal of the Mechanics and Physics of Solids, 2017, 106, 60-79.	4.9	136
100	The importance of mechano-electrical feedback and inertia in cardiac electromechanics. Computer Methods in Applied Mechanics and Engineering, 2017, 320, 352-368.	6.7	56
101	Wrinkling instabilities in soft bilayered systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160163.	3.5	41
102	Molecular mechanisms of chronic traumatic encephalopathy. Current Opinion in Biomedical Engineering, 2017, 1, 23-30.	3.7	15
103	Modeling molecular mechanisms in the axon. Computational Mechanics, 2017, 59, 523-537.	4.0	31
104	Quantification of Strain in a Porcine Model of Skin Expansion Using Multi-View Stereo and Isogeometric Kinematics. Journal of Visualized Experiments, 2017, , .	0.3	5
105	Viscoelastic parameter identification of human brain tissue. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 74, 463-476.	3.1	133
106	Pilot Findings of Brain Displacements and Deformations during Roller Coaster Rides. Journal of Neurotrauma, 2017, 34, 3198-3205.	3.6	20
107	Dimensional, Geometrical, and Physical Constraints in Skull Growth. Physical Review Letters, 2017, 118, 248101.	8.0	29
108	Rheological characterization of human brain tissue. Acta Biomaterialia, 2017, 60, 315-329.	8.8	136

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109	Bulging Brains. Journal of Elasticity, 2017, 129, 197-212.	2.0	25
110	Mechanical characterization of human brain tissue. Acta Biomaterialia, 2017, 48, 319-340.	8.8	466
111	The mechanics of decompressive craniectomy: Personalized simulations. Computer Methods in Applied Mechanics and Engineering, 2017, 314, 180-195.	6.7	40
112	Instabilities of soft films on compliant substrates. Journal of the Mechanics and Physics of Solids, 2017, 98, 350-365.	4.9	61
113	Weekly Time Course of Neuro-Muscular Adaptation to Intensive Strength Training. Frontiers in Physiology, 2017, 8, 329.	2.8	8
114	Partial LVAD Restores Ventricular Outputs and Normalizes LV but not RV Stress Distributions in the Acutely Failing Heart in Silico. International Journal of Artificial Organs, 2016, 39, 421-430.	1.5	34
115	A Finite Element Model for Mixed Porohyperelasticity with Transport, Swelling, and Growth. PLoS ONE, 2016, 11, e0152806.	2.5	18
116	Multiphysics and multiscale modelling, dataâ€"model fusion and integration of organ physiology in the clinic: ventricular cardiac mechanics. Interface Focus, 2016, 6, 20150083.	3.2	173
117	Tri-layer wrinkling as a mechanism for anchoring center initiation in the developing cerebellum. Soft Matter, 2016, 12, 5613-5620.	2.8	48
118	Elastosis during airway wall remodeling explains multiple co-existing instability patterns. Journal of Theoretical Biology, 2016, 403, 209-218.	1.7	37
119	Response to Letters Regarding Article, â€œSegmental Aortic Stiffening Contributes to Experimental Abdominal Aortic Aneurysm Developmentâ€. Circulation, 2016, 133, e11-2.	9.3	1
120	Stress Singularities in Swelling Soft Solids. Physical Review Letters, 2016, 117, 138001.	8.0	25
121	Brain stiffness increases with myelin content. Acta Biomaterialia, 2016, 42, 265-272.	8.8	203
122	The mechanics of decompressive craniectomy: Bulging in idealized geometries. Journal of the Mechanics and Physics of Solids, 2016, 96, 572-590.	4.9	9
123	Terminating atrial fibrillation by cooling the heart. Heart Rhythm, 2016, 13, 2259-2260.	0.8	0
124	Unfolding the brain. Nature Physics, 2016, 12, 533-534.	11.8	26
125	Using 3D Printing to Create Personalized Brain Models for Neurosurgical Training and Preoperative Planning. World Neurosurgery, 2016, 90, 668-674.	1.5	154
126	Generating Purkinje networks in the human heart. Journal of Biomechanics, 2016, 49, 2455-2465.	2.1	85

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127	Constitutive Modeling of Brain Tissue: Current Perspectives. Applied Mechanics Reviews, 2016, 68, .	10.3	103
128	The Incompatibility of Living Systems: Characterizing Growth-Induced Incompatibilities in Expanded Skin. Annals of Biomedical Engineering, 2016, 44, 1734-1752.	2.6	22
129	Computational modeling of acute myocardial infarction. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1107-1115.	1.7	25
130	Computational modeling of chemo-bio-mechanical coupling: a systems-biology approach toward wound healing. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 13-30.	1.7	41
131	Modeling Pathologies of Diastolic and Systolic Heart Failure. Annals of Biomedical Engineering, 2016, 44, 112-127.	2.6	76
132	Systems biology and mechanics of growth. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2015, 7, 401-412.	6.7	33
133	Primary and secondary instabilities in soft bilayered systems. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 281-282.	0.2	1
134	Modeling Tissue Expansion with Isogeometric Analysis. Plastic and Reconstructive Surgery, 2015, 136, 31-32.	1.6	1
135	Segmental Aortic Stiffening Contributes to Experimental Abdominal Aortic Aneurysm Development. Circulation, 2015, 131, 1783-1795.	9.3	117
136	Isogeometric Kirchhoffâ€"Love shell formulations for biological membranes. Computer Methods in Applied Mechanics and Engineering, 2015, 293, 328-347.	6.7	90
137	Morphoelastic control of gastro-intestinal organogenesis: Theoretical predictions and numerical insights. Journal of the Mechanics and Physics of Solids, 2015, 78, 493-510.	4.9	53
138	Neuromechanics. Advances in Applied Mechanics, 2015, , 79-139.	1.0	57
139	Tau-ism: The Yin and Yang of Microtubule Sliding, Detachment, and Rupture. Biophysical Journal, 2015, 109, 2215-2217.	0.5	25
140	Multi-view stereo analysis reveals anisotropy of prestrain, deformation, and growth in living skin. Biomechanics and Modeling in Mechanobiology, 2015, 14, 1007-1019.	3.0	32
141	A new sparse matrix vector multiplication graphics processing unit algorithm designed for finite element problems. International Journal for Numerical Methods in Engineering, 2015, 102, 1784-1814.	2.9	21
142	Mechanics of the brain: perspectives, challenges, and opportunities. Biomechanics and Modeling in Mechanobiology, 2015, 14, 931-965.	3.0	304
143	Period-doubling and period-tripling in growing bilayered systems. Philosophical Magazine, 2015, 95, 3208-3224.	1.6	89
144	Computational aspects of growth-induced instabilities through eigenvalue analysis. Computational Mechanics, 2015, 56, 405-420.	4.0	47

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145	Size and curvature regulate pattern selection in the mammalian brain. Extreme Mechanics Letters, 2015, 4, 193-198.	4.2	51
146	Use it or lose it: multiscale skeletal muscle adaptation to mechanical stimuli. Biomechanics and Modeling in Mechanobiology, 2015, 14, 195-215.	3.0	125
147	Patient-Specific Airway Wall Remodeling in Chronic Lung Disease. Annals of Biomedical Engineering, 2015, 43, 2538-2551.	2.6	39
148	Emerging Brain Morphologies from Axonal Elongation. Annals of Biomedical Engineering, 2015, 43, 1640-1653.	2.6	86
149	Human Cardiac Function Simulator for the Optimal Design of a Novel Annuloplasty Ring with a Sub-valvular Element for Correction of Ischemic Mitral Regurgitation. Cardiovascular Engineering and Technology, 2015, 6, 105-116.	1.7	56
150	Secondary instabilities modulate cortical complexity in the mammalian brain. Philosophical Magazine, 2015, 95, 3244-3256.	1.6	41
151	Mechanical properties of gray and white matter brain tissue by indentation. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 46, 318-330.	3.1	535
152	Heterogeneous growth-induced prestrain in the heart. Journal of Biomechanics, 2015, 48, 2080-2089.	2.1	78
153	Physical biology of human brain development. Frontiers in Cellular Neuroscience, 2015, 9, 257.	3.8	211
154	On high heels and short muscles: A multiscale model for sarcomere loss in the gastrocnemius muscle. Journal of Theoretical Biology, 2015, 365, 301-310.	1.7	36
155	The emergence of extracellular matrix mechanics and cell traction forces as important regulators of cellular self-organization. Biomechanics and Modeling in Mechanobiology, 2015, 14, 1-13.	3.0	64
156	A computational model that predicts reverse growth in response to mechanical unloading. Biomechanics and Modeling in Mechanobiology, 2015, 14, 217-229.	3.0	41
157	Human pluripotent stem cell tools for cardiac optogenetics. , 2014, 2014, 6171-4.		14
158	Computational modelling of electrocardiograms: repolarisation and T-wave polarity in the human heart. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 986-996.	1.7	34
159	Pattern Selection in Growing Tubular Tissues. Physical Review Letters, 2014, 113, 248101.	8.0	97
160	The Living Heart Project: A robust and integrative simulator for human heart function. European Journal of Mechanics, A/Solids, 2014, 48, 38-47.	3.8	280
161	A novel strategy to identify the critical conditions for growth-induced instabilities. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 29, 20-32.	3.1	21
162	Growing matter: A review of growth in living systems. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 29, 529-543.	3.1	135

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163	Computational modeling of hypertensive growth in the human carotid artery. Computational Mechanics, 2014, 53, 1183-1196.	4.0	41
164	Generating fibre orientation maps in human heart models using Poisson interpolation. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 1217-1226.	1.7	99
165	Characterization of living skin using multi-view stereo and isogeometric analysis. Acta Biomaterialia, 2014, 10, 4822-4831.	8.8	42
166	The generalized Hill model: A kinematic approach towards active muscle contraction. Journal of the Mechanics and Physics of Solids, 2014, 72, 20-39.	4.9	51
167	Computational modeling of skin: Using stress profiles as predictor for tissue necrosis in reconstructive surgery. Computers and Structures, 2014, 143, 32-39.	4.5	39
168	The role of mechanics during brain development. Journal of the Mechanics and Physics of Solids, 2014, 72, 75-92.	4.9	203
169	Modeling and simulation of viscous electro-active polymers. European Journal of Mechanics, A/Solids, 2014, 48, 112-128.	3.8	50
170	Frontiers in Finite-Deformation Electromechanics. European Journal of Mechanics, A/Solids, 2014, 48, 1-2.	3.8	0
171	On the mechanics of growing thin biological membranes. Journal of the Mechanics and Physics of Solids, 2014, 63, 128-140.	4.9	37
172	A mechanical approach to explain cortical folding phenomena in healthy and diseased brains. Proceedings in Applied Mathematics and Mechanics, 2014, 14, 101-102.	0.2	1
173	Application of Finite Element Modeling to Optimize Flap Design with Tissue Expansion. Plastic and Reconstructive Surgery, 2014, 134, 785-792.	1.6	24
174	Towards an instrumented tissue expander. , 2014, , .		0
175	A mechanical model predicts morphological abnormalities in the developing human brain. Scientific Reports, 2014, 4, 5644.	3.4	167
176	Mechanics of the Mitral Annulus in Chronic Ischemic Cardiomyopathy. Annals of Biomedical Engineering, 2013, 41, 2171-2180.	2.6	27
177	Mathematical modeling of collagen turnover in biological tissue. Journal of Mathematical Biology, 2013, 67, 1765-1793.	1.9	26
178	Growth on demand: Reviewing the mechanobiology of stretched skin. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 28, 495-509.	3.1	96
179	Mechanics of the mitral valve. Biomechanics and Modeling in Mechanobiology, 2013, 12, 1053-1071.	3.0	71
180	A three-constituent damage model for arterial clamping in computer-assisted surgery. Biomechanics and Modeling in Mechanobiology, 2013, 12, 123-136.	3.0	41

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181	On the mechanics of continua with boundary energies and growing surfaces. Journal of the Mechanics and Physics of Solids, 2013, 61, 1446-1463.	4.9	57
182	Systems-based approaches toward wound healing. Pediatric Research, 2013, 73, 553-563.	2.4	79
183	Cardiovascular Tissue Damage: An Experimental and Computational Framework. , 2013, , 129-148.		0
184	On the effect of prestrain and residual stress in thin biological membranes. Journal of the Mechanics and Physics of Solids, 2013, 61, 1955-1969.	4.9	95
185	A fully implicit finite element method for bidomain models of cardiac electromechanics. Computer Methods in Applied Mechanics and Engineering, 2013, 253, 323-336.	6.7	82
186	On the mechanics of thin films and growing surfaces. Mathematics and Mechanics of Solids, 2013, 18, 561-575.	2.4	34
187	On the Role of Mechanics in Chronic Lung Disease. Materials, 2013, 6, 5639-5658.	3.0	41
188	Characterisation of electrophysiological conduction in cardiomyocyte co-cultures using co-occurrence analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 185-197.	1.7	9
189	Computational modeling of chemoâ€electroâ€mechanical coupling: A novel implicit monolithic finite element approach. International Journal for Numerical Methods in Biomedical Engineering, 2013, 29, 1104-1133.	2.2	29
190	Micro-structurally Based Kinematic Approaches to Electromechanics of the Heart. , 2013, , 175-187.		7
191	Modeling Growth in Tissue Expansion. , 2012, , .		0
192	Computational Modelling of Optogenetics in Cardiac Cells. , 2012, , .		0
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