Ellen Kuhl

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5403099/publications.pdf

Version: 2024-02-01

287 papers 15,334 citations

14644 66 h-index 28275 105 g-index

318 all docs

318 docs citations

318 times ranked

10977 citing authors

| # | Article | IF | CITATIONS |
|----|--|-------------|-----------|
| 1 | 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. | 1.0 | 5 |
| 2 | Sex Matters: A Comprehensive Comparison of Female and Male Hearts. Frontiers in Physiology, 2022, 13, 831179. | 1.3 | 50 |
| 3 | How drugs modulate the performance of the human heart. Computational Mechanics, 2022, 69, 1397-1411. | 2.2 | 5 |
| 4 | How viscous is the beating heart? Insights from a computational study. Computational Mechanics, 2022, 70, 565-579. | 2.2 | 3 |
| 5 | Mechanics of axon growth and damage: A systematic review of computational models. Seminars in Cell and Developmental Biology, 2022, , . | 2.3 | 5 |
| 6 | Correlating tau pathology to brain atrophy using a physics-based Bayesian model. Engineering With Computers, 2022, 38, 3867-3877. | 3. 5 | 6 |
| 7 | Bayesian Physics Informed Neural Networks for real-world nonlinear dynamical systems. Computer Methods in Applied Mechanics and Engineering, 2022, 402, 115346. | 3.4 | 37 |
| 8 | Multiscale Modeling Meets Machine Learning: What Can We Learn?. Archives of Computational Methods in Engineering, 2021, 28, 1017-1037. | 6.0 | 164 |
| 9 | Are college campuses superspreaders? A data-driven modeling study. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1136-1145. | 0.9 | 67 |
| 10 | Global and local mobility as a barometer for COVID-19 dynamics. Biomechanics and Modeling in Mechanobiology, 2021, 20, 651-669. | 1.4 | 42 |
| 11 | A Framework for Evaluating Myocardial Stiffness Using 3D-Printed Heart Phantoms. Lecture Notes in Computer Science, 2021, , 305-314. | 1.0 | 2 |
| 12 | Precision medicine in human heart modeling. Biomechanics and Modeling in Mechanobiology, 2021, 20, 803-831. | 1.4 | 88 |
| 13 | Bayesian Physics-Based Modeling of Tau Propagation in Alzheimer's Disease. Frontiers in Physiology, 2021, 12, 702975. | 1.3 | 14 |
| 14 | 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. | 3.4 | 32 |
| 15 | 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. | 6.0 | 3 |
| 16 | Sex Differences in Drug-Induced Arrhythmogenesis. Frontiers in Physiology, 2021, 12, 708435. | 1.3 | 12 |
| 17 | Predicting brain atrophy from tau pathology: a summary of clinical findings and their translation into personalized models. Brain Multiphysics, 2021, 2, 100039. | 0.8 | 13 |
| 18 | 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. | 6.0 | 215 |

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| 19 | Viscoelasticity of the axon limits stretch-mediated growth. Computational Mechanics, 2020, 65, 587-595. | 2.2 | 13 |
| 20 | Modeling the life cycle of the human brain. Current Opinion in Biomedical Engineering, 2020, 15, 16-25. | 1.8 | 13 |
| 21 | Towards microstructure-informed material models for human brain tissue. Acta Biomaterialia, 2020, 104, 53-65. | 4.1 | 57 |
| 22 | 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. | 0.8 | 35 |
| 23 | 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. | 3.4 | 58 |
| 24 | Protein-protein interactions in neurodegenerative diseases: A conspiracy theory. PLoS Computational Biology, 2020, 16, e1008267. | 1.5 | 35 |
| 25 | The reproduction number of COVID-19 and its correlation with public health interventions. Computational Mechanics, 2020, 66, 1035-1050. | 2.2 | 143 |
| 26 | Is it safe to lift COVID-19 travel bans? The Newfoundland story. Computational Mechanics, 2020, 66, 1081-1092. | 2.2 | 54 |
| 27 | Neuronal Oscillations on Evolving Networks: Dynamics, Damage, Degradation, Decline, Dementia, and Death. Physical Review Letters, 2020, 125, 128102. | 2.9 | 28 |
| 28 | Modeling and simulation of infectious diseases. Computational Mechanics, 2020, 66, 1053-1053. | 2.2 | 0 |
| 29 | Network Diffusion Modeling Explains Longitudinal Tau PET Data. Frontiers in Neuroscience, 2020, 14, 566876. | 1.4 | 15 |
| 30 | Folding drives cortical thickness variations. European Physical Journal: Special Topics, 2020, 229, 2757-2778. | 1.2 | 9 |
| 31 | Outbreak dynamics of COVID-19 in Europe and the effect of travel restrictions. Computer Methods in Biomechanics and Biomedical Engineering, 2020, 23, 710-717. | 0.9 | 234 |
| 32 | Physics-Informed Neural Networks for Cardiac Activation Mapping. Frontiers in Physics, 2020, 8, . | 1.0 | 174 |
| 33 | Nervous Tissue Stiffens Postinjury. Biophysical Journal, 2020, 118, 276-278. | 0.2 | 0 |
| 34 | Classifying Drugs by their Arrhythmogenic Risk Using Machine Learning. Biophysical Journal, 2020, 118, 1165-1176. | 0.2 | 23 |
| 35 | Outbreak dynamics of COVID-19 in China and the United States. Biomechanics and Modeling in Mechanobiology, 2020, 19, 2179-2193. | 1.4 | 122 |
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| 37 | Growth and remodelling of living tissues: perspectives, challenges and opportunities. Journal of the Royal Society Interface, 2019, 16, 20190233. | 1.5 | 142 |
| 38 | Connectomics of neurodegeneration. Nature Neuroscience, 2019, 22, 1200-1202. | 7.1 | 5 |
| 39 | Prion-like spreading of Alzheimer's disease within the brain's connectome. Journal of the Royal Society Interface, 2019, 16, 20190356. | 1.5 | 71 |
| 40 | Multi-fidelity classification using Gaussian processes: Accelerating the prediction of large-scale computational models. Computer Methods in Applied Mechanics and Engineering, 2019, 357, 112602. | 3.4 | 31 |
| 41 | Multiscale characterization of heart failure. Acta Biomaterialia, 2019, 86, 66-76. | 4.1 | 29 |
| 42 | A computational model to predict cell traction-mediated prestretch in the mitral valve. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 1174-1185. | 0.9 | 4 |
| 43 | Mechanical aspects of cortical folding. IBRO Reports, 2019, 6, S15. | 0.3 | 0 |
| 44 | Using machine learning to characterize heart failure across the scales. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1987-2001. | 1.4 | 53 |
| 45 | The interplay of biochemical and biomechanical degeneration in Alzheimer's disease. Computer Methods in Applied Mechanics and Engineering, 2019, 352, 369-388. | 3.4 | 23 |
| 46 | Modeling neurodegeneration in chronic traumatic encephalopathy using gradient damage models. Computational Mechanics, 2019, 64, 1375-1387. | 2.2 | 17 |
| 47 | Revisiting the wrinkling of elastic bilayersÂl: linear analysis. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180076. | 1.6 | 25 |
| 48 | 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. | 3.4 | 76 |
| 49 | Understanding the mechanical link between oriented cell division and cerebellar morphogenesis. Soft Matter, 2019, 15, 2204-2215. | 1.2 | 22 |
| 50 | 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. | 0.4 | 8 |
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| 53 | Integrating machine learning and multiscale modelingâ€"perspectives, challenges, and opportunities in the biological, biomedical, and behavioral sciences. Npj Digital Medicine, 2019, 2, 115. | 5.7 | 319 |
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| 55 | Predicting critical drug concentrations and torsadogenic risk using a multiscale exposure-response simulator. Progress in Biophysics and Molecular Biology, 2019, 144, 61-76. | 1.4 | 11 |
| 56 | A physics-based model explains the prion-like features of neurodegeneration in Alzheimer's disease, Parkinson's disease, and amyotrophic lateral sclerosis. Journal of the Mechanics and Physics of Solids, 2019, 124, 264-281. | 2.3 | 83 |
| 57 | Predicting the cardiac toxicity of drugs using a novel multiscale exposure–response simulator. Computer Methods in Biomechanics and Biomedical Engineering, 2018, 21, 232-246. | 0.9 | 25 |
| 58 | Predicting drugâ€induced arrhythmias by multiscale modeling. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2964. | 1.0 | 28 |
| 59 | Growth and remodeling play opposing roles during postnatal human heart valve development. Scientific Reports, 2018, 8, 1235. | 1.6 | 18 |
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| 61 | Microtubule Polymerization and Cross-Link Dynamics Explain Axonal Stiffness and Damage. Biophysical Journal, 2018, 114, 201-212. | 0.2 | 37 |
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| 64 | 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. | 0.4 | 13 |
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| 66 | Magnetic resonance elastography of the brain: A comparison between pigs and humans. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 702-710. | 1.5 | 53 |
| 67 | Interpreting Activation Mapping of Atrial Fibrillation: A Hybrid Computational/Physiological Study. Annals of Biomedical Engineering, 2018, 46, 257-269. | 1.3 | 15 |
| 68 | Region―and loadingâ€specific finite viscoelasticity of human brain tissue. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800169. | 0.2 | 7 |
| 69 | Symmetry Breaking in Wrinkling Patterns: Gyri Are Universally Thicker than Sulci. Physical Review Letters, 2018, 121, 228002. | 2.9 | 47 |
| 70 | Modeling the Axon as an Active Partner with the Growth Cone in Axonal Elongation. Biophysical Journal, 2018, 115, 1783-1795. | 0.2 | 23 |
| 71 | Multiphysics of Prionlike Diseases: Progression and Atrophy. Physical Review Letters, 2018, 121, 158101. | 2.9 | 83 |
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| 81 | Wrinkling instabilities in soft bilayered systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160163. | 1.6 | 39 |
| 82 | Molecular mechanisms of chronic traumatic encephalopathy. Current Opinion in Biomedical Engineering, 2017, 1, 23-30. | 1.8 | 15 |
| 83 | Modeling molecular mechanisms in the axon. Computational Mechanics, 2017, 59, 523-537. | 2.2 | 30 |
| 84 | Quantification of Strain in a Porcine Model of Skin Expansion Using Multi-View Stereo and Isogeometric Kinematics. Journal of Visualized Experiments, 2017, , . | 0.2 | 4 |
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| 86 | Pilot Findings of Brain Displacements and Deformations during Roller Coaster Rides. Journal of Neurotrauma, 2017, 34, 3198-3205. | 1.7 | 17 |
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| 94 | 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. | 0.7 | 32 |
| 95 | A Finite Element Model for Mixed Porohyperelasticity with Transport, Swelling, and Growth. PLoS ONE, 2016, 11, e0152806. | 1.1 | 18 |
| 96 | Multiphysics and multiscale modelling, data–model fusion and integration of organ physiology in the clinic: ventricular cardiac mechanics. Interface Focus, 2016, 6, 20150083. | 1.5 | 165 |
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| 98 | Elastosis during airway wall remodeling explains multiple co-existing instability patterns. Journal of Theoretical Biology, 2016, 403, 209-218. | 0.8 | 35 |
| 99 | Response to Letters Regarding Article, "Segmental Aortic Stiffening Contributes to Experimental Abdominal Aortic Aneurysm Development― Circulation, 2016, 133, e11-2. | 1.6 | 1 |
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| 110 | 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. | 0.9 | 40 |
| 111 | Modeling Pathologies of Diastolic and Systolic Heart Failure. Annals of Biomedical Engineering, 2016, 44, 112-127. | 1.3 | 73 |
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| 113 | Primary and secondary instabilities in soft bilayered systems. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 281-282. | 0.2 | 1 |
| 114 | Modeling Tissue Expansion with Isogeometric Analysis. Plastic and Reconstructive Surgery, 2015, 136, 31-32. | 0.7 | 1 |
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| 116 | Isogeometric Kirchhoff–Love shell formulations for biological membranes. Computer Methods in Applied Mechanics and Engineering, 2015, 293, 328-347. | 3.4 | 89 |
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| 119 | Tau-ism: The Yin and Yang of Microtubule Sliding, Detachment, and Rupture. Biophysical Journal, 2015, 109, 2215-2217. | 0.2 | 25 |
| 120 | Multi-view stereo analysis reveals anisotropy of prestrain, deformation, and growth in living skin. Biomechanics and Modeling in Mechanobiology, 2015, 14, 1007-1019. | 1.4 | 30 |
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| 127 | Patient-Specific Airway Wall Remodeling in Chronic Lung Disease. Annals of Biomedical Engineering, 2015, 43, 2538-2551. | 1.3 | 38 |
| 128 | Emerging Brain Morphologies from Axonal Elongation. Annals of Biomedical Engineering, 2015, 43, 1640-1653. | 1.3 | 81 |
| 129 | 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. | 0.7 | 54 |
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| 135 | 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. | 1.4 | 63 |
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| 138 | Computational modelling of electrocardiograms: repolarisation and T-wave polarity in the human heart. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 986-996. | 0.9 | 33 |
| 139 | Pattern Selection in Growing Tubular Tissues. Physical Review Letters, 2014, 113, 248101. | 2.9 | 93 |
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| 154 | A mechanical model predicts morphological abnormalities in the developing human brain. Scientific Reports, 2014, 4, 5644. | 1.6 | 164 |
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| 156 | Mechanics of the Mitral Annulus in Chronic Ischemic Cardiomyopathy. Annals of Biomedical Engineering, 2013, 41, 2171-2180. | 1.3 | 27 |
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| 171 | Modeling Growth in Tissue Expansion. , 2012, , . | | 0 |
| 172 | Computational Modelling of Optogenetics in Cardiac Cells. , 2012, , . | | 0 |
| 173 | Chronic Mitral Valve Leaflet Growth Following Myocardial Infarction. , 2012, , . | | 0 |
| 174 | Finite Element Modeling of Flap Design After Skin Expansion. , 2012, , . | | 0 |
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