# Pablo Saez ViÃ±as

List of Publications by Year
in descending order



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|---|---|---|---|
| 21 papers | 336 citations | 1039880 9 h-index | 839398 18 g-index |
| 22 all docs | 22 docs citations | 22 times ranked | 382 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | On the use of the Bingham statistical distribution in microsphere-based constitutive models for arterial tissue. Mechanics Research Communications, 2010, 37, 700-706. | 1.0 | 48 |
| 2 | Computational modeling of hypertensive growth in the human carotid artery. Computational Mechanics, 2014, 53, 1183-1196. | 2.2 | 41 |
| 3 | Microstructural quantification of collagen fiber orientations and its integration in constitutive modeling of the porcine carotid artery. Acta Biomaterialia, 2016, 33, 183-193. | 4.1 | 40 |
| 4 | Anisotropic microsphere-based approach to damage in soft fibered tissue. Biomechanics and Modeling in Mechanobiology, 2012, 11, 595-608. | 1.4 | 37 |
| 5 | Mathematical modeling of collagen turnover in biological tissue. Journal of Mathematical Biology, 2013, 67, 1765-1793. | 0.8 | 24 |
| 6 | Computational modeling of acute myocardial infarction. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1107-1115. | 0.9 | 24 |
| 7 | Bulging Brains. Journal of Elasticity, 2017, 129, 197-212. | 0.9 | 24 |
| 8 | A Structural Approach Including the Behavior of Collagen Cross-Links to Model Patient-Specific Human Carotid Arteries. Annals of Biomedical Engineering, 2014, 42, 1158-1169. | 1.3 | 22 |
| 9 | Mechanics Reveals the Biological Trigger in Wrinkly Fingers. Annals of Biomedical Engineering, 2017, 45, 1039-1047. | 1.3 | 15 |
| 10 | Computational modeling of epithelial wound healing: Short and long term chemo-mechanical mechanisms. Computer Methods in Applied Mechanics and Engineering, 2019, 350, 28-56. | 3.4 | 10 |
| 11 | A theoretical model of the endothelial cell morphology due to different waveforms. Journal of Theoretical Biology, 2015, 379, 16-23. | 0.8 | 8 |
| 12 | On the Theories and Numerics of Continuum Models for Adaptation Processes in Biological Tissues. Archives of Computational Methods in Engineering, 2016, 23, 301-322. | 6.0 | 8 |
| 13 | Computational model of collagen turnover in carotid arteries during hypertension. International Journal for Numerical Methods in Biomedical Engineering, 2015, 31, e02705. | 1.0 | 7 |
| 14 | Hierarchical micro-adaptation of biological structures by mechanical stimuli. International Journal of Solids and Structures, 2013, 50, 2353-2370. | 1.3 | 6 |
| 15 | A complementary energy approach accommodates scale differences in soft tissues. Journal of the Mechanics and Physics of Solids, 2020, 138, 103895. | 2.3 | 5 |
| 16 | An Anisotropic Microsphere-Based Approach for Fiber Orientation Adaptation in Soft Tissue. IEEE Transactions on Biomedical Engineering, 2011, 58, 3500-3503. | 2.5 | 4 |
| 17 | Topological features dictate the mechanics of the mammalian brains. International Journal of Mechanical Sciences, 2020, 187, 105914. | 3.6 | 4 |
| 18 | Towards the modelling of ageing and atherosclerosis effects in ApoE-/- mice aortic tissue. Journal of Biomechanics, 2016, 49, 2390-2397. | 0.9 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Fully coupled numerical model of actin treadmilling in the lamellipodium of the cell. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e3143. | 1.0 | 3 |
| 20 | Mechanotransmission of haemodynamic forces by the endothelial glycocalyx in a full-scale arterial model. Royal Society Open Science, 2019, 6, 190607. | 1.1 | 3 |
| 21 | Mechanical and Microstructural Behavior of Vascular Tissue. , 2019, , 63-78. | | 0 |