

Susannah P Fritton

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,937
citations

394390

19
h-index

677123

22
g-index

22
all docs

22
docs citations

22
times ranked

1686
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying the strain history of bone: spatial uniformity and self-similarity of low-magnitude strains. <i>Journal of Biomechanics</i> , 2000, 33, 317-325.	2.1	334
2	Fluid and Solute Transport in Bone: Flow-Induced Mechanotransduction. <i>Annual Review of Fluid Mechanics</i> , 2009, 41, 347-374.	25.0	300
3	Estimation of bone permeability using accurate microstructural measurements. <i>Journal of Biomechanics</i> , 2006, 39, 2378-2387.	2.1	147
4	Advances in assessment of bone porosity, permeability and interstitial fluid flow. <i>Journal of Biomechanics</i> , 2013, 46, 253-265.	2.1	142
5	Delineating bone's interstitial fluid pathway in vivo. <i>Bone</i> , 2004, 34, 499-509.	2.9	121
6	Fluid pressure relaxation depends upon osteonal microstructure: modeling an oscillatory bending experiment. <i>Journal of Biomechanics</i> , 1999, 32, 663-672.	2.1	104
7	Alterations in the osteocyte lacunar-canalicular microenvironment due to estrogen deficiency. <i>Bone</i> , 2012, 51, 488-497.	2.9	102
8	3D Assessment of Cortical Bone Porosity and Tissue Mineral Density Using High-Resolution μ CT: Effects of Resolution and Threshold Method. <i>Journal of Bone and Mineral Research</i> , 2014, 29, 142-150.	2.8	101
9	Modeling Tracer Transport in an Osteon under Cyclic Loading. <i>Annals of Biomedical Engineering</i> , 2000, 28, 1200-1209.	2.5	96
10	Lactation-Induced Changes in the Volume of Osteocyte Lacunar-Canalicular Space Alter Mechanical Properties in Cortical Bone Tissue. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 688-697.	2.8	75
11	On bone adaptation due to venous stasis. <i>Journal of Biomechanics</i> , 2003, 36, 1439-1451.	2.1	74
12	Testing the daily stress stimulus theory of bone adaptation with natural and experimentally controlled strain histories. <i>Journal of Biomechanics</i> , 1997, 30, 671-678.	2.1	62
13	An effective histological staining process to visualize bone interstitial fluid space using confocal microscopy. <i>Bone</i> , 2009, 44, 1015-1017.	2.9	53
14	Microstructural changes associated with osteoporosis negatively affect loading-induced fluid flow around osteocytes in cortical bone. <i>Journal of Biomechanics</i> , 2018, 66, 127-136.	2.1	48
15	The effects of estrogen deficiency on cortical bone microporosity and mineralization. <i>Bone</i> , 2018, 110, 1-10.	2.9	47
16	Ovariectomy enhances mechanical load-induced solute transport around osteocytes in rat cancellous bone. <i>Bone</i> , 2014, 59, 229-234.	2.9	40
17	Analysis of avian bone response to mechanical loading, Part Two: Development of a computational connected cellular network to study bone intercellular communication. <i>Biomechanics and Modeling in Mechanobiology</i> , 2005, 4, 132-146.	2.8	24
18	Mapping bone interstitial fluid movement: Displacement of ferritin tracer during histological processing. <i>Bone</i> , 2005, 37, 379-387.	2.9	23

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19	Analysis of avian bone response to mechanical loadingâ€”Part One: Distribution of bone fluid shear stress induced by bending and axial loading. <i>Biomechanics and Modeling in Mechanobiology</i> , 2005, 4, 118-131.	2.8	20
20	Botoxâ€”induced muscle paralysis alters intracortical porosity and osteocyte lacunar density in skeletally mature rats. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1153-1163.	2.3	10
21	In Response to â€œMixing Mechanisms and Net Solute Transport in Boneâ€”by M. L. Knothe Tate. <i>Annals of Biomedical Engineering</i> , 2001, 29, 812-816.	2.5	7
22	Interstitial fluid velocity is decreased around cortical bone vascular pores and depends on osteocyte position in a rat model of disuse osteoporosis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1135-1146.	2.8	7