Susannah P Fritton

List of Publications by Year
in descending order

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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	Interstitial fluid velocity is decreased around cortical bone vascular pores and depends on osteocyte position in a rat model of disuse osteoporosis. Biomechanics and Modeling in Mechanobiology, 2021, 20, 1135-1146.	2.8	7
2	Botoxâ€•induced muscle paralysis alters intracortical porosity and osteocyte lacunar density in skeletally mature rats. Journal of Orthopaedic Research, 2019, 37, 1153-1163.	2.3	10
3	The effects of estrogen deficiency on cortical bone microporosity and mineralization. Bone, 2018, 110, 1-10.	2.9	47
4	Microstructural changes associated with osteoporosis negatively affect loading-induced fluid flow around osteocytes in cortical bone. Journal of Biomechanics, 2018, 66, 127-136.	2.1	48
5	Lactation-Induced Changes in the Volume of Osteocyte Lacunar-Canalicular Space Alter Mechanical Properties in Cortical Bone Tissue. Journal of Bone and Mineral Research, 2017, 32, 688-697.	2.8	75
6	3D Assessment of Cortical Bone Porosity and Tissue Mineral Density Using High-Resolution ÂµCT: Effects of Resolution and Threshold Method. Journal of Bone and Mineral Research, 2014, 29, 142-150.	2.8	101
7	Ovariectomy enhances mechanical load-induced solute transport around osteocytes in rat cancellous bone. Bone, 2014, 59, 229-234.	2.9	40
8	Advances in assessment of bone porosity, permeability and interstitial fluid flow. Journal of Biomechanics, 2013, 46, 253-265.	2.1	142
9	Alterations in the osteocyte lacunarâ€“canalicular microenvironment due to estrogen deficiency. Bone, 2012, 51, 488-497.	2.9	102
10	Fluid and Solute Transport in Bone: Flow-Induced Mechanotransduction. Annual Review of Fluid Mechanics, 2009, 41, 347-374.	25.0	300
11	An effective histological staining process to visualize bone interstitial fluid space using confocal microscopy. Bone, 2009, 44, 1015-1017.	2.9	53
12	Estimation of bone permeability using accurate microstructural measurements. Journal of Biomechanics, 2006, 39, 2378-2387.	2.1	147
13	Analysis of avian bone response to mechanical loadingâ€”Part One: Distribution of bone fluid shear stress induced by bending and axial loading. Biomechanics and Modeling in Mechanobiology, 2005, 4, 118-131.	2.8	20
14	Analysis of avian bone response to mechanical loading, Part Two: Development of a computational connected cellular network to study bone intercellular communication. Biomechanics and Modeling in Mechanobiology, 2005, 4, 132-146.	2.8	24
15	Mapping bone interstitial fluid movement: Displacement of ferritin tracer during histological processing. Bone, 2005, 37, 379-387.	2.9	23
16	Delineating bone's interstitial fluid pathway in vivo. Bone, 2004, 34, 499-509.	2.9	121
17	On bone adaptation due to venous stasis. Journal of Biomechanics, 2003, 36, 1439-1451.	2.1	74
18	In Response to â€œMixing Mechanisms and Net Solute Transport in Boneâ€•by M. L. Knothe Tate. Annals of Biomedical Engineering, 2001, 29, 812-816.	2.5	7

#	Article	IF	Citations
19	Quantifying the strain history of bone: spatial uniformity and self-similarity of low-magnitude strains. Journal of Biomechanics, 2000, 33, 317-325.	2.1	334
20	Modeling Tracer Transport in an Osteon under Cyclic Loading. Annals of Biomedical Engineering, 2000, 28, 1200-1209.	2.5	96
21	Fluid pressure relaxation depends upon osteonal microstructure: modeling an oscillatory bending experiment. Journal of Biomechanics, 1999, 32, 663-672.	2.1	104
22	Testing the daily stress stimulus theory of bone adaptation with natural and experimentally controlled strain histories. Journal of Biomechanics, 1997, 30, 671-678.	2.1	62