

Samuel P Veres

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

902
citations

516710

16
h-index

526287

27
g-index

27
all docs

27
docs citations

27
times ranked

841
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of torsion on disc herniation when combined with flexion. <i>European Spine Journal</i> , 2010, 19, 1468-1478.	2.2	93
2	ISSLS Prize Winner: Microstructure and Mechanical Disruption of the Lumbar Disc Annulus. <i>Spine</i> , 2008, 33, 2711-2720.	2.0	85
3	Collagen fibrils in functionally distinct tendons have differing structural responses to tendon rupture and fatigue loading. <i>Acta Biomaterialia</i> , 2016, 42, 296-307.	8.3	79
4	The Morphology of Acute Disc Herniation. <i>Spine</i> , 2009, 34, 2288-2296.	2.0	78
5	ISSLS Prize Winner: How Loading Rate Influences Disc Failure Mechanics. <i>Spine</i> , 2010, 35, 1897-1908.	2.0	72
6	Designed to Fail: A Novel Mode of Collagen Fibril Disruption and Its Relevance to Tissue Toughness. <i>Biophysical Journal</i> , 2012, 102, 2876-2884.	0.5	71
7	Repeated subrupture overload causes progression of nanoscaled discrete plasticity damage in tendon collagen fibrils. <i>Journal of Orthopaedic Research</i> , 2013, 31, 731-737.	2.3	65
8	Mechanically overloading collagen fibrils uncoils collagen molecules, placing them in a stable, denatured state. <i>Matrix Biology</i> , 2014, 33, 54-59.	3.6	65
9	In tendons, differing physiological requirements lead to functionally distinct nanostructures. <i>Scientific Reports</i> , 2018, 8, 4409.	3.3	54
10	Differences in collagen cross-linking between the four valves of the bovine heart: a possible role in adaptation to mechanical fatigue. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H1898-H1906.	3.2	33
11	High spatial resolution (1.1 μ m and 20 nm) FTIR polarization contrast imaging reveals pre-rupture disorder in damaged tendon. <i>Faraday Discussions</i> , 2016, 187, 555-573.	3.2	27
12	Macrophage-like U937 cells recognize collagen fibrils with strain-induced discrete plasticity damage. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 397-408.	4.0	26
13	Advanced glycation end-product cross-linking inhibits biomechanical plasticity and characteristic failure morphology of native tendon. <i>Journal of Applied Physiology</i> , 2019, 126, 832-841.	2.5	24
14	Cross-link stabilization does not affect the response of collagen molecules, fibrils, or tendons to tensile overload. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1907-1913.	2.3	20
15	Ultrastructure of tendon rupture depends on strain rate and tendon type. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2842-2850.	2.3	19
16	Development of overuse tendinopathy: A new descriptive model for the initiation of tendon damage during cyclic loading. <i>Journal of Orthopaedic Research</i> , 2018, 36, 467-476.	2.3	16
17	Bowstring Stretching and Quantitative Imaging of Single Collagen Fibrils via Atomic Force Microscopy. <i>PLoS ONE</i> , 2016, 11, e0161951.	2.5	13
18	Use of tendon to produce decellularized sheets of mineralized collagen fibrils for bone tissue repair and regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 845-856.	3.4	13

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19	Combining tensile testing and structural analysis at the single collagen fibril level. <i>Scientific Data</i> , 2018, 5, 180229.	5.3	12
20	Ultrastructural response of tendon to excessive level or duration of tensile load supports that collagen fibrils are mechanically continuous. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 97, 30-40.	3.1	11
21	Effect of testing temperature on the nanostructural response of tendon to tensile mechanical overload. <i>Journal of Biomechanics</i> , 2020, 104, 109720.	2.1	8
22	A new longitudinal variation in the structure of collagen fibrils and its relationship to locations of mechanical damage susceptibility. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103849.	3.1	5
23	Alternate soaking enables easy control of mineralized collagen scaffold mechanics from nano- to macro-scale. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 110, 103863.	3.1	5
24	Quantitative phase measurements of tendon collagen fibres. <i>Journal of Biophotonics</i> , 2017, 10, 111-117.	2.3	3
25	Gouy phase shift measurement using interferometric second-harmonic generation. <i>Optics Letters</i> , 2018, 43, 1958.	3.3	2
26	ISSLS PRIZE IN BASIC SCIENCE 2020: Beyond microstructure—circumferential specialization within the lumbar intervertebral disc annulus extends to collagen nanostructure, with counterintuitive relationships to macroscale material properties. <i>European Spine Journal</i> , 2020, 29, 670-685.	2.2	2
27	Effect of increasing mineralization on pre-osteoblast response to native collagen fibril scaffolds for bone tissue repair and regeneration. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2022, 20, 228080002211040.	1.6	1