

Louis J Soslowsky

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

4,505
citations

126708

33
h-index

106150

65
g-index

70
all docs

70
docs citations

70
times ranked

3752
citing authors

#	ARTICLE	IF	CITATIONS
1	Inhibition of glucose use improves structural recovery of injured Achilles tendon in mice. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1409-1419.	1.2	1
2	Pulsed electromagnetic field therapy alters early healing in a rat model of rotator cuff injury and repair: Potential mechanisms. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1593-1603.	1.2	11
3	Achilles Tendon Ruptures in Middle-Aged Rats Heal Poorly Compared With Those in Young and Old Rats. <i>American Journal of Sports Medicine</i> , 2022, 50, 170-181.	1.9	5
4	Nonsurgical treatment reduces tendon inflammation and elevates tendon markers in early healing. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2308-2319.	1.2	5
5	Biglycan has a major role in maintenance of mature tendon mechanics. <i>Journal of Orthopaedic Research</i> , 2022, 40, 2546-2556.	1.2	6
6	Biomechanical Parameters of Mesh Reinforcement and Analysis of a Novel Device for Incisional Hernia Prevention. <i>Journal of Surgical Research</i> , 2021, 258, 153-161.	0.8	3
7	MRI-derived porosity index is associated with whole-bone stiffness and mineral density in human cadaveric femora. <i>Bone</i> , 2021, 143, 115774.	1.4	16
8	Liquid Poly-N-acetyl Glucosamine (sNAG) Improves Achilles Tendon Healing in a Rat Model. <i>Annals of Biomedical Engineering</i> , 2021, 49, 515-522.	1.3	0
9	Reticulocalbin 3 is involved in postnatal tendon development by regulating collagen fibrillogenesis and cellular maturation. <i>Scientific Reports</i> , 2021, 11, 10868.	1.6	11
10	Limited Scar Resection for Chronic Achilles Tendon Repair: Use of a Rat Model. <i>American Journal of Sports Medicine</i> , 2021, 49, 2707-2715.	1.9	2
11	Evaluation of Autologous Protein Solution Injection for Treatment of Superficial Digital Flexor Tendonitis in an Equine Model. <i>Frontiers in Veterinary Science</i> , 2021, 8, 697551.	0.9	5
12	Amplifying Bone Marrow Progenitors Expressing α -Smooth Muscle Actin Produce Zonal Insertion Sites During Tendon-to-Bone Repair. <i>Journal of Orthopaedic Research</i> , 2020, 38, 105-116.	1.2	13
13	Effects of Pulsed Electromagnetic Field Therapy on Rat Achilles Tendon Healing. <i>Journal of Orthopaedic Research</i> , 2020, 38, 70-81.	1.2	13
14	MRI-based assessment of proximal femur strength compared to mechanical testing. <i>Bone</i> , 2020, 133, 115227.	1.4	24
15	Biocompatibility and bioactivity of an FGF-loaded microsphere-based bilayer delivery system. <i>Acta Biomaterialia</i> , 2020, 111, 341-348.	4.1	16
16	Localized delivery of ibuprofen via a bilayer delivery system (BiLDS) for supraspinatus tendon healing in a rat model. <i>Journal of Orthopaedic Research</i> , 2020, 38, 2339-2349.	1.2	8
17	CD44-dependent inflammation, fibrogenesis, and collagenolysis regulates extracellular matrix remodeling and tensile strength during cutaneous wound healing. <i>Matrix Biology</i> , 2019, 75-76, 314-330.	1.5	97
18	MRI-derived bone porosity index correlates to bone composition and mechanical stiffness. <i>Bone Reports</i> , 2019, 11, 100213.	0.2	27

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19	Ultrasound-Guided Dry Needling of the Healthy Rat Supraspinatus Tendon Elicits Early Healing Without Causing Permanent Damage. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2035-2042.	1.2	20
20	Quantitative comparison of three rat models of Achilles tendon injury: A multidisciplinary approach. <i>Journal of Biomechanics</i> , 2019, 88, 194-200.	0.9	14
21	Effects of immobilization angle on tendon healing after achilles rupture in a rat model. <i>Journal of Orthopaedic Research</i> , 2019, 37, 562-573.	1.2	29
22	Tendon healing affects the multiscale mechanical, structural and compositional response of tendon to quasi-static tensile loading. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20170880.	1.5	27
23	Effects of pulsed electromagnetic field therapy at different frequencies and durations on rotator cuff tendon-to-bone healing in a rat model. <i>Journal of Shoulder and Elbow Surgery</i> , 2018, 27, 553-560.	1.2	36
24	Modulating Glucose Metabolism and Lactate Synthesis in Injured Mouse Tendons: Treatment With Dichloroacetate, a Lactate Synthesis Inhibitor, Improves Tendon Healing. <i>American Journal of Sports Medicine</i> , 2018, 46, 2222-2231.	1.9	19
25	Dynamic Loading and Tendon Healing Affect Multiscale Tendon Properties and ECM Stress Transmission. <i>Scientific Reports</i> , 2018, 8, 10854.	1.6	58
26	Pulsed electromagnetic field therapy improves tendon-to-bone healing in a rat rotator cuff repair model. <i>Journal of Orthopaedic Research</i> , 2017, 35, 902-909.	1.2	35
27	Mechanical, histological, and functional properties remain inferior in conservatively treated Achilles tendons in rodents: Long term evaluation. <i>Journal of Biomechanics</i> , 2017, 56, 55-60.	0.9	22
28	Collagen V haploinsufficiency in a murine model of classic Ehlers-Danlos syndrome is associated with deficient structural and mechanical healing in tendons. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2707-2715.	1.2	20
29	Temporal Healing of Achilles Tendons After Injury in Rodents Depends on Surgical Treatment and Activity. <i>Journal of the American Academy of Orthopaedic Surgeons</i> , The, 2017, 25, 635-647.	1.1	22
30	Decorin and biglycan are necessary for maintaining collagen fibril structure, fiber realignment, and mechanical properties of mature tendons. <i>Matrix Biology</i> , 2017, 64, 81-93.	1.5	159
31	Electrospun PLGA Nanofiber Scaffolds Release Ibuprofen Faster and Degrade Slower After In Vivo Implantation. <i>Annals of Biomedical Engineering</i> , 2017, 45, 2348-2359.	1.3	29
32	Autologous tendon-derived cell-seeded nanofibrous scaffolds improve rotator cuff repair in an age-dependent fashion. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1250-1257.	1.2	23
33	Nonsurgical treatment and early return to activity leads to improved Achilles tendon fatigue mechanics and functional outcomes during early healing in an animal model. <i>Journal of Orthopaedic Research</i> , 2016, 34, 2172-2180.	1.2	53
34	Collagen V-heterozygous and -null supraspinatus tendons exhibit altered dynamic mechanical behaviour at multiple hierarchical scales. <i>Interface Focus</i> , 2016, 6, 20150043.	1.5	19
35	Postinjury biomechanics of Achilles tendon vary by sex and hormone status. <i>Journal of Applied Physiology</i> , 2016, 121, 1106-1114.	1.2	21
36	Injury response of geriatric mouse patellar tendons. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1256-1263.	1.2	22

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37	Tendon mineralization is progressive and associated with deterioration of tendon biomechanical properties, and requires BMP-Smad signaling in the mouse Achilles tendon injury model. <i>Matrix Biology</i> , 2016, 52-54, 315-324.	1.5	36
38	Genetic Response of Rat Supraspinatus Tendon and Muscle to Exercise. <i>PLoS ONE</i> , 2015, 10, e0139880.	1.1	13
39	Evaluating changes in tendon crimp with fatigue loading as an ex vivo structural assessment of tendon damage. <i>Journal of Orthopaedic Research</i> , 2015, 33, 904-910.	1.2	35
40	Regulatory role of collagen V in establishing mechanical properties of tendons and ligaments is tissue dependent. <i>Journal of Orthopaedic Research</i> , 2015, 33, 882-888.	1.2	32
41	Targeted Deletion of Collagen V in Tendons and Ligaments Results in a Classic Ehlers-Danlos Syndrome Joint Phenotype. <i>American Journal of Pathology</i> , 2015, 185, 1436-1447.	1.9	46
42	Analysis of Collagen Organization in Mouse Achilles Tendon Using High-Frequency Ultrasound Imaging. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 021029.	0.6	46
43	Biomechanical and structural response of healing Achilles tendon to fatigue loading following acute injury. <i>Journal of Biomechanics</i> , 2014, 47, 2028-2034.	0.9	65
44	The Tendon Injury Response is Influenced by Decorin and Biglycan. <i>Annals of Biomedical Engineering</i> , 2014, 42, 619-630.	1.3	66
45	The Detrimental Effects of Systemic Ibuprofen Delivery on Tendon Healing Are Time-Dependent. <i>Clinical Orthopaedics and Related Research</i> , 2014, 472, 2433-2439.	0.7	70
46	Efficacy of various analgesics on shoulder function and rotator cuff tendon-to-bone healing in a rat (<i>Rattus norvegicus</i>) model. <i>Journal of the American Association for Laboratory Animal Science</i> , 2014, 53, 185-92.	0.6	18
47	Decorin expression is important for age-related changes in tendon structure and mechanical properties. <i>Matrix Biology</i> , 2013, 32, 3-13.	1.5	169
48	Structure-function relationships of postnatal tendon development: A parallel to healing. <i>Matrix Biology</i> , 2013, 32, 106-116.	1.5	100
49	Effect of Age and Proteoglycan Deficiency on Collagen Fiber Re-Alignment and Mechanical Properties in Mouse Supraspinatus Tendon. <i>Journal of Biomechanical Engineering</i> , 2013, 135, 021019.	0.6	73
50	Mechanical, compositional, and structural properties of the mouse patellar tendon with changes in biglycan gene expression. <i>Journal of Orthopaedic Research</i> , 2013, 31, 1430-1437.	1.2	61
51	Influence of Decorin on the Mechanical, Compositional, and Structural Properties of the Mouse Patellar Tendon. <i>Journal of Biomechanical Engineering</i> , 2012, 134, 031005.	0.6	77
52	Development and evaluation of multiple tendon injury models in the mouse. <i>Journal of Biomechanics</i> , 2012, 45, 1550-1553.	0.9	61
53	Characterizing local collagen fiber re-alignment and crimp behavior throughout mechanical testing in a mature mouse supraspinatus tendon model. <i>Journal of Biomechanics</i> , 2012, 45, 2061-2065.	0.9	84
54	Fiber-aligned polymer scaffolds for rotator cuff repair in a rat model. <i>Journal of Shoulder and Elbow Surgery</i> , 2012, 21, 245-250.	1.2	73

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55	Collagen Fiber Re-Alignment in a Neonatal Developmental Mouse Supraspinatus Tendon Model. <i>Annals of Biomedical Engineering</i> , 2012, 40, 1102-1110.	1.3	30
56	Recapitulation of the Achilles tendon mechanical properties during neonatal development: A Study of differential healing during two stages of development in a mouse model. <i>Journal of Orthopaedic Research</i> , 2012, 30, 448-456.	1.2	30
57	Mechanical, Compositional, and Structural Properties of the Post-natal Mouse Achilles Tendon. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1904-1913.	1.3	83
58	Regulation of Collagen Fibril Nucleation and Initial Fibril Assembly Involves Coordinate Interactions with Collagens V and XI in Developing Tendon. <i>Journal of Biological Chemistry</i> , 2011, 286, 20455-20465.	1.6	118
59	Transient decreases in forelimb gait and ground reaction forces following rotator cuff injury and repair in a rat model. <i>Journal of Biomechanics</i> , 2010, 43, 778-782.	0.9	43
60	The Effect of Postoperative Passive Motion on Rotator Cuff Healing in a Rat Model. <i>Journal of Bone and Joint Surgery - Series A</i> , 2009, 91, 2421-2429.	1.4	103
61	Mechanical properties of the long head of the biceps tendon are altered in the presence of rotator cuff tears in a rat model. <i>Journal of Orthopaedic Research</i> , 2009, 27, 416-420.	1.2	70
62	Effect of fiber distribution and realignment on the nonlinear and inhomogeneous mechanical properties of human supraspinatus tendon under longitudinal tensile loading. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1596-1602.	1.2	259
63	Temporal expression of 8 growth factors in tendon-to-bone healing in a rat supraspinatus model. <i>Journal of Shoulder and Elbow Surgery</i> , 2007, 16, S198-S203.	1.2	180
64	Decorin regulates assembly of collagen fibrils and acquisition of biomechanical properties during tendon development. <i>Journal of Cellular Biochemistry</i> , 2006, 98, 1436-1449.	1.2	361
65	Regenerative properties of fetal sheep tendon are not adversely affected by transplantation into an adult environment. <i>Journal of Orthopaedic Research</i> , 2006, 24, 2124-2132.	1.2	112
66	Influence of Decorin and Biglycan on Mechanical Properties of Multiple Tendons in Knockout Mice. <i>Journal of Biomechanical Engineering</i> , 2005, 127, 181-185.	0.6	167
67	Supraspinatus tendon organizational and mechanical properties in a chronic rotator cuff tear animal model. <i>Journal of Biomechanics</i> , 2004, 37, 739-749.	0.9	176
68	Effect of Altered Matrix Proteins on Quasilinear Viscoelastic Properties in Transgenic Mouse Tail Tendons. <i>Annals of Biomedical Engineering</i> , 2003, 31, 599-605.	1.3	176
69	Variation of biomechanical, structural, and compositional properties along the tendon to bone insertion site. <i>Journal of Orthopaedic Research</i> , 2003, 21, 413-419.	1.2	382
70	Variation of biomechanical, structural, and compositional properties along the tendon to bone insertion site. <i>Journal of Orthopaedic Research</i> , 2003, 21, 413-9.	1.2	199