

Richard L Lieber

List of Publications by Year in descending order

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285
papers

17,428
citations

16451

64
h-index

19190

118
g-index

293
all docs

293
docs citations

293
times ranked

12389
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional and clinical significance of skeletal muscle architecture. <i>Muscle and Nerve</i> , 2000, 23, 1647-1666.	2.2	928
2	Structure and function of the skeletal muscle extracellular matrix. <i>Muscle and Nerve</i> , 2011, 44, 318-331.	2.2	716
3	A Model of the Lower Limb for Analysis of Human Movement. <i>Annals of Biomedical Engineering</i> , 2010, 38, 269-279.	2.5	659
4	Cerebral palsy. <i>Nature Reviews Disease Primers</i> , 2016, 2, 15082.	30.5	603
5	Are Current Measurements of Lower Extremity Muscle Architecture Accurate?. <i>Clinical Orthopaedics and Related Research</i> , 2009, 467, 1074-1082.	1.5	520
6	Relationship between muscle fiber types and sizes and muscle architectural properties in the mouse hindlimb. <i>Journal of Morphology</i> , 1994, 221, 177-190.	1.2	426
7	Hamstring contractures in children with spastic cerebral palsy result from a stiffer extracellular matrix and increased <i>in vivo</i> sarcomere length. <i>Journal of Physiology</i> , 2011, 589, 2625-2639.	2.9	353
8	Structural and mechanical basis of exercise-induced muscle injury. <i>Medicine and Science in Sports and Exercise</i> , 1992, 24, 521-530.	0.4	342
9	Structural and functional changes in spastic skeletal muscle. <i>Muscle and Nerve</i> , 2004, 29, 615-627.	2.2	332
10	Architecture of selected muscles of the arm and forearm: Anatomy and implications for tendon transfer. <i>Journal of Hand Surgery</i> , 1992, 17, 787-798.	1.6	314
11	Spastic muscle cells are shorter and stiffer than normal cells. <i>Muscle and Nerve</i> , 2003, 27, 157-164.	2.2	307
12	Skeletal muscle design to meet functional demands. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 1466-1476.	4.0	251
13	Architecture of selected wrist flexor and extensor muscles. <i>Journal of Hand Surgery</i> , 1990, 15, 244-250.	1.6	242
14	Cellular Mechanisms of Tissue Fibrosis. 4. Structural and functional consequences of skeletal muscle fibrosis. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C241-C252.	4.6	233
15	Architectural Analysis and Intraoperative Measurements Demonstrate the Unique Design of the Multifidus Muscle for Lumbar Spine Stability. <i>Journal of Bone and Joint Surgery - Series A</i> , 2009, 91, 176-185.	3.0	221
16	Density and hydration of fresh and fixed human skeletal muscle. <i>Journal of Biomechanics</i> , 2005, 38, 2317-2320.	2.1	209
17	Inferior mechanical properties of spastic muscle bundles due to hypertrophic but compromised extracellular matrix material. <i>Muscle and Nerve</i> , 2003, 28, 464-471.	2.2	198
18	Nebulin-deficient mice exhibit shorter thin filament lengths and reduced contractile function in skeletal muscle. <i>Journal of Cell Biology</i> , 2006, 173, 905-916.	5.2	195

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19	Spasticity causes a fundamental rearrangement of muscle-joint interaction. <i>Muscle and Nerve</i> , 2002, 25, 265-270.	2.2	177
20	Clinical Significance of Skeletal Muscle Architecture. <i>Clinical Orthopaedics and Related Research</i> , 2001, 383, 140-151.	1.5	172
21	Architectural design of the human intrinsic hand muscles. <i>Journal of Hand Surgery</i> , 1992, 17, 804-809.	1.6	170
22	Correlation between active and passive isometric force and intramuscular pressure in the isolated rabbit tibialis anterior muscle. <i>Journal of Biomechanics</i> , 2003, 36, 505-512.	2.1	164
23	Scaling of muscle architecture and fiber types in the rat hindlimb. <i>Journal of Experimental Biology</i> , 2008, 211, 2336-2345.	1.7	155
24	Skeletal muscle architecture of the rabbit hindlimb: Functional implications of muscle design. <i>Journal of Morphology</i> , 1989, 199, 93-101.	1.2	151
25	12 Force Transmission in Skeletal Muscle. <i>Exercise and Sport Sciences Reviews</i> , 1997, 25, 321-364.	3.0	151
26	Elucidation of extracellular matrix mechanics from muscle fibers and fiber bundles. <i>Journal of Biomechanics</i> , 2011, 44, 771-773.	2.1	150
27	Segmental muscle fiber lesions after repetitive eccentric contractions. <i>Cell and Tissue Research</i> , 1998, 293, 165-171.	2.9	145
28	Structural and mechanical alterations in spastic skeletal muscle. <i>Developmental Medicine and Child Neurology</i> , 2005, 47, 713.	2.1	136
29	Pathophysiology of Muscle Contractures in Cerebral Palsy. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2015, 26, 57-67.	1.3	135
30	Nesprin 1 is critical for nuclear positioning and anchorage. <i>Human Molecular Genetics</i> , 2010, 19, 329-341.	2.9	131
31	Rapid muscle-specific gene expression changes after a single bout of eccentric contractions in the mouse. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 286, C355-C364.	4.6	130
32	Obscurin determines the architecture of the longitudinal sarcoplasmic reticulum. <i>Journal of Cell Science</i> , 2009, 122, 2640-2650.	2.0	120
33	Statistical significance and statistical power in hypothesis testing. <i>Journal of Orthopaedic Research</i> , 1990, 8, 304-309.	2.3	117
34	Whole muscle length-tension relationships are accurately modeled as scaled sarcomeres in rabbit hindlimb muscles. <i>Journal of Biomechanics</i> , 2011, 44, 109-115.	2.1	116
35	Desmin knockout muscles generate lower stress and are less vulnerable to injury compared with wild-type muscles. <i>American Journal of Physiology - Cell Physiology</i> , 2000, 279, C1116-C1122.	4.6	112
36	Structural and Functional Roles of Desmin in Mouse Skeletal Muscle during Passive Deformation. <i>Biophysical Journal</i> , 2004, 86, 2993-3008.	0.5	112

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37	Method for Decellularizing Skeletal Muscle Without Detergents or Proteolytic Enzymes. Tissue Engineering - Part C: Methods, 2011, 17, 383-389.	2.1	109
38	Mechanical Strength of the Side-to-Side Versus Pulvertaft Weave Tendon Repair. Journal of Hand Surgery, 2010, 35, 540-545.	1.6	102
39	Skeletal muscle mechanics, energetics and plasticity. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 108.	4.6	99
40	Quantitative analysis of neonatal skeletal muscle functional improvement in the mouse. Journal of Experimental Biology, 2008, 211, 837-843.	1.7	98
41	Passive mechanical properties of the lumbar multifidus muscle support its role as a stabilizer. Journal of Biomechanics, 2009, 42, 1384-1389.	2.1	97
42	Tendon biomechanical properties enhance human wrist muscle specialization. Journal of Biomechanics, 1995, 28, 791-799.	2.1	95
43	Desmin cytoskeletal modifications after a bout of eccentric exercise in the rat. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 283, R958-R963.	1.8	92
44	Predicted effects of metacarpal shortening on interosseous muscle function. Journal of Hand Surgery, 2004, 29, 689-693.	1.6	92
45	DNA-PK Promotes the Mitochondrial, Metabolic, and Physical Decline that Occurs During Aging. Cell Metabolism, 2017, 25, 1135-1146.e7.	16.2	92
46	Morphologic and Mechanical Basis of Delayed-Onset Muscle Soreness. Journal of the American Academy of Orthopaedic Surgeons, The, 2002, 10, 67-73.	2.5	91
47	Long-term effects of spinal cord transection on fast and slow rat skeletal muscle. Experimental Neurology, 1986, 91, 435-448.	4.1	90
48	Effects of Muscle Contraction on the Load-Strain Properties of Frog Aponeurosis and Tendon. Cells Tissues Organs, 2000, 166, 48-54.	2.3	89
49	Asynchronous Functional, Cellular and Transcriptional Changes after a Bout of Eccentric Exercise in the Rat. Journal of Physiology, 2003, 553, 947-957.	2.9	87
50	Skeletal muscle fibroblasts in health and disease. Differentiation, 2016, 92, 108-115.	1.9	86
51	Mechanisms of Muscle Injury Gleaned from Animal Models. American Journal of Physical Medicine and Rehabilitation, 2002, 81, S70-S79.	1.4	85
52	Skeletal muscle response to tenotomy. Muscle and Nerve, 2000, 23, 851-862.	2.2	84
53	Novel transcriptional profile in wrist muscles from cerebral palsy patients. BMC Medical Genomics, 2009, 2, 44.	1.5	84
54	High resolution muscle measurements provide insights into equinus contractures in patients with cerebral palsy. Journal of Orthopaedic Research, 2015, 33, 33-39.	2.3	84

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55	Tissue fluid pressures: From basic research tools to clinical applications. <i>Journal of Orthopaedic Research</i> , 1989, 7, 902-909.	2.3	82
56	Reduced satellite cell population may lead to contractures in children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2013, 55, 264-270.	2.1	81
57	Long-term effects of spinal cord transection on fast and slow rat skeletal muscle. <i>Experimental Neurology</i> , 1986, 91, 423-434.	4.1	77
58	Structural and regulatory roles of muscle ankyrin repeat protein family in skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2007, 293, C218-C227.	4.6	76
59	Cytoskeletal Disruption After Eccentric Contraction-Induced Muscle Injury. <i>Clinical Orthopaedics and Related Research</i> , 2002, 403, S90-S99.	1.5	75
60	CASE REPORT: Muscle Adaptation by Serial Sarcomere Addition 1 Year after Femoral Lengthening. <i>Clinical Orthopaedics and Related Research</i> , 2007, 456, 250-253.	1.5	75
61	Tropomodulin isoforms regulate thin filament pointed-end capping and skeletal muscle physiology. <i>Journal of Cell Biology</i> , 2010, 189, 95-109.	5.2	74
62	Sarcomere length measurement permits high resolution normalization of muscle fiber length in architectural studies. <i>Journal of Experimental Biology</i> , 2005, 208, 3275-3279.	1.7	71
63	Model of muscle-tendon interaction during frog semitendinosus fixed-end contractions. <i>Journal of Biomechanics</i> , 1992, 25, 421-428.	2.1	68
64	Evidence for muscle attachment at relatively long lengths in tendon transfer surgery. <i>Journal of Hand Surgery</i> , 1998, 23, 105-110.	1.6	67
65	Skeletal muscle satellite cells: Mediators of muscle growth during development and implications for developmental disorders. <i>Muscle and Nerve</i> , 2014, 50, 723-732.	2.2	65
66	Muscle contracture and passive mechanics in cerebral palsy. <i>Journal of Applied Physiology</i> , 2019, 126, 1492-1501.	2.5	64
67	Reduced thin filament length in nebulin-knockout skeletal muscle alters isometric contractile properties. <i>American Journal of Physiology - Cell Physiology</i> , 2009, 296, C1123-C1132.	4.6	63
68	Stiff muscle fibers in calf muscles of patients with cerebral palsy lead to high passive muscle stiffness. <i>Journal of Orthopaedic Research</i> , 2014, 32, 1667-1674.	2.3	63
69	Reduced satellite cell number in situ in muscular contractures from children with cerebral palsy. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1039-1045.	2.3	63
70	Impact of vaginal parity and aging on the architectural design of pelvic floor muscles. <i>American Journal of Obstetrics and Gynecology</i> , 2016, 215, 312.e1-312.e9.	1.3	62
71	Nebulin plays a direct role in promoting strong actin-myosin interactions. <i>FASEB Journal</i> , 2009, 23, 4117-4125.	0.5	61
72	Automating sleep stage classification using wireless, wearable sensors. <i>Npj Digital Medicine</i> , 2019, 2, 131.	10.9	60

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73	Local compression patterns beneath pneumatic tourniquets applied to arms and thighs of human cadavera. <i>Journal of Orthopaedic Research</i> , 1987, 5, 247-252.	2.3	59
74	Physiologic consequences of surgical lengthening of extensor carpi radialis brevis muscle-tendon junction for tennis elbow. <i>Journal of Hand Surgery</i> , 1994, 19, 269-274.	1.6	59
75	Differential response of the dog quadriceps muscle to external skeletal fixation of the knee. <i>Muscle and Nerve</i> , 1988, 11, 193-201.	2.2	57
76	Biomechanical Analysis of the Brachioradialis as a Donor in Tendon Transfer. <i>Clinical Orthopaedics and Related Research</i> , 2001, 383, 152-161.	1.5	56
77	Stress-dependent and -independent expression of the myogenic regulatory factors and theMARPgenes after eccentric contractions in rats. <i>Journal of Physiology</i> , 2006, 570, 157-167.	2.9	56
78	Systems analysis of biological networks in skeletal muscle function. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013, 5, 55-71.	6.6	56
79	High resolution three-dimensional reconstruction of fibrotic skeletal muscle extracellular matrix. <i>Journal of Physiology</i> , 2017, 595, 1159-1171.	2.9	56
80	Skeletal Muscle Architecture. <i>Journal of Hand Therapy</i> , 1993, 6, 105-113.	1.5	54
81	Biomechanical properties of the brachioradialis muscle: Implications for surgical tendon transfer. <i>Journal of Hand Surgery</i> , 2005, 30, 273-282.	1.6	54
82	ISSLS Prize Winner. <i>Spine</i> , 2011, 36, 1728-1736.	2.0	54
83	Pregnancy-induced adaptations in the intrinsic structure of rat pelvic floor muscles. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 213, 191.e1-191.e7.	1.3	54
84	Muscle LIM protein plays both structural and functional roles in skeletal muscle. <i>American Journal of Physiology - Cell Physiology</i> , 2005, 289, C1312-C1320.	4.6	53
85	Interaction between series compliance and sarcomere kinetics determines internal sarcomere shortening during fixed-end contraction. <i>Journal of Biomechanics</i> , 2000, 33, 1249-1255.	2.1	52
86	Human skeletal muscle biochemical diversity. <i>Journal of Experimental Biology</i> , 2012, 215, 2551-2559.	1.7	52
87	Disruption of both nesprin 1 and desmin results in nuclear anchorage defects and fibrosis in skeletal muscle. <i>Human Molecular Genetics</i> , 2014, 23, 5879-5892.	2.9	52
88	Skeletal muscle fibrosis develops in response to desmin deletion. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1609-C1620.	4.6	51
89	Muscle intermediate filaments form a stress-transmitting and stress- signaling network in muscle. <i>Journal of Cell Science</i> , 2015, 128, 219-24.	2.0	51
90	Frog muscle fibers bear a larger fraction of passive muscle tension than mouse fibers. <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	51

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91	SKELETAL MUSCLE ADAPTABILITY. I: REVIEW OF BASIC PROPERTIES. <i>Developmental Medicine and Child Neurology</i> , 1986, 28, 390-397.	2.1	50
92	Transcriptional Abnormalities of Hamstring Muscle Contractures in Children with Cerebral Palsy. <i>PLoS ONE</i> , 2012, 7, e40686.	2.5	50
93	Comparison of rotator cuff muscle architecture among humans and selected vertebrate species. <i>Journal of Experimental Biology</i> , 2014, 217, 261-73.	1.7	50
94	Sarcomere length in wrist extensor muscles Changes may provide insights into the etiology of chronic lateral epicondylitis. <i>Acta Orthopaedica</i> , 1997, 68, 249-254.	1.4	49
95	Intraoperative muscle measurements reveal a relationship between contracture formation and muscle remodeling. <i>Muscle and Nerve</i> , 2007, 36, 47-54.	2.2	49
96	Increased efficacy and decreased systemic effects of botulinum toxin A injection after active or passive muscle manipulation. <i>Developmental Medicine and Child Neurology</i> , 2007, 49, 907-914.	2.1	49
97	Plasticity of Muscle Architecture After Supraspinatus Tears. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2010, 40, 729-735.	3.5	49
98	Three distinct cell populations express extracellular matrix proteins and increase in number during skeletal muscle fibrosis. <i>American Journal of Physiology - Cell Physiology</i> , 2017, 312, C131-C143.	4.6	49
99	Psoas Muscle Architectural Design, In Vivo Sarcomere Length Range, and Passive Tensile Properties Support Its Role as a Lumbar Spine Stabilizer. <i>Spine</i> , 2011, 36, E1666-E1674.	2.0	48
100	Contribution of denervated muscle to contractures after neonatal brachial plexus injury: Not just muscle fibrosis. <i>Muscle and Nerve</i> , 2014, 49, 398-404.	2.2	48
101	A model of semitendinosus muscle sarcomere length, knee and hip joint interaction in the frog hindlimb. <i>Journal of Biomechanics</i> , 1990, 23, 271-279.	2.1	47
102	Finite element model of intramuscular pressure during isometric contraction of skeletal muscle. <i>Physics in Medicine and Biology</i> , 2002, 47, 4043-4061.	3.0	47
103	Progressive myopathy and defects in the maintenance of myotendinous junctions in mice that lack talin 1 in skeletal muscle. <i>Development (Cambridge)</i> , 2008, 135, 2043-2053.	2.5	47
104	Architectural Analysis of Human Abdominal Wall Muscles. <i>Spine</i> , 2010, 36, 1.	2.0	47
105	Four novel myosin heavy chain transcripts define a molecular basis for muscle fibre types in <i>Ranapiens</i> . <i>Journal of Physiology</i> , 1998, 508, 667-680.	2.9	46
106	Dramatic changes in muscle contractile and structural properties after 2 botulinum toxin injections. <i>Muscle and Nerve</i> , 2015, 52, 649-657.	2.2	46
107	Anatomical, architectural, and biochemical diversity of the murine forelimb muscles. <i>Journal of Anatomy</i> , 2012, 221, 443-451.	1.5	45
108	Sarcomere Length changes after flexor carpi ulnaris to extensor digitorum communis tendon transfer. <i>Journal of Hand Surgery</i> , 1996, 21, 612-618.	1.6	44

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109	Muscle Injury, Vimentin Expression, and Nonsteroidal Anti-inflammatory Drugs Predispose to Cryptic Group A Streptococcal Necrotizing Infection. <i>Journal of Infectious Diseases</i> , 2008, 198, 1692-1698.	4.0	44
110	Passive mechanical properties and related proteins change with botulinum neurotoxin A injection of normal skeletal muscle. <i>Journal of Orthopaedic Research</i> , 2012, 30, 497-502.	2.3	44
111	Quantitative analysis of muscle fibre type and myosin heavy chain distribution in the frog hindlimb; implications for locomotory design. <i>Journal of Muscle Research and Cell Motility</i> , 1998, 19, 717-731.	2.0	43
112	Protection of the deltoid to triceps tendon transfer repair sites. <i>Journal of Hand Surgery</i> , 2000, 25, 144-149.	1.6	43
113	Asynchronous Muscle and Tendon Adaptation After Surgical Tensioning Procedures. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 664-674.	3.0	43
114	Musculoskeletal balance of the human wrist elucidated using intraoperative laser diffraction. <i>Journal of Electromyography and Kinesiology</i> , 1998, 8, 93-100.	1.7	42
115	Quantitative evaluation of the posterior deltoid to triceps tendon transfer based on muscle architectural properties. <i>Journal of Hand Surgery</i> , 2001, 26, 147-155.	1.6	41
116	Spastic wrist flexors are more severely affected than wrist extensors in children with cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2005, 47, 384-389.	2.1	41
117	Loss of FHL1 induces an age-dependent skeletal muscle myopathy associated with myofibrillar and intermyofibrillar disorganization in mice. <i>Human Molecular Genetics</i> , 2014, 23, 209-225.	2.9	41
118	Reduced skeletal muscle satellite cell number alters muscle morphology after chronic stretch but allows limited serial sarcomere addition. <i>Muscle and Nerve</i> , 2017, 55, 384-392.	2.2	41
119	Non-linear Scaling of Passive Mechanical Properties in Fibers, Bundles, Fascicles and Whole Rabbit Muscles. <i>Frontiers in Physiology</i> , 2020, 11, 211.	2.8	41
120	Sarcomere strain and heterogeneity correlate with injury to frog skeletal muscle fiber bundles. <i>Journal of Applied Physiology</i> , 2004, 97, 1803-1813.	2.5	40
121	Effect of muscle tension during tendon transfer on sarcomerogenesis in a rabbit model. <i>Journal of Hand Surgery</i> , 2000, 25, 138-143.	1.6	39
122	Tendon Transfer Surgery: Clinical Implications of Experimental Studies. <i>Clinical Orthopaedics and Related Research</i> , 2002, 403, S163-S170.	1.5	39
123	Inpatient stroke rehabilitation: prediction of clinical outcomes using a machine-learning approach. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2020, 17, 71.	4.6	39
124	Evidence for increased myofibrillar mobility in desmin-null mouse skeletal muscle. <i>Journal of Experimental Biology</i> , 2002, 205, 321-325.	1.7	39
125	Stepwise regression is an alternative to splines for fitting noisy data. <i>Journal of Biomechanics</i> , 1996, 29, 235-238.	2.1	38
126	Performance characteristics of a pressure microsensor. <i>Journal of Biomechanics</i> , 2003, 36, 283-287.	2.1	38

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127	3D-printed biomaterials with regional auxetic properties. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 76, 145-152.	3.1	38
128	Quantitative method for comparison of skeletal muscle architectural properties. Journal of Biomechanics, 1992, 25, 557-560.	2.1	37
129	Synovial fluid nutrient delivery in the diarthral joint: An analysis of rabbit knee ligaments. Journal of Orthopaedic Research, 1986, 4, 90-95.	2.3	36
130	Mechanical considerations in the design of surgical reconstructive procedures. Journal of Biomechanics, 2002, 35, 1039-1045.	2.1	36
131	Passive mechanical properties of rat abdominal wall muscles suggest an important role of the extracellular connective tissue matrix. Journal of Orthopaedic Research, 2012, 30, 1321-1326.	2.3	36
132	Collagen crosslinking does not dictate stiffness in a transgenic mouse model of skeletal muscle fibrosis. Journal of Biomechanics, 2015, 48, 375-378.	2.1	36
133	Pregnancy-induced adaptations in intramuscular extracellular matrix of rat pelvic floor muscles. American Journal of Obstetrics and Gynecology, 2016, 215, 210.e1-210.e7.	1.3	36
134	Biomechanical response of skeletal muscle to eccentric contractions. Journal of Sport and Health Science, 2018, 7, 294-309.	6.5	35
135	Loss of myogenic potential and fusion capacity of muscle stem cells isolated from contractured muscle in children with cerebral palsy. American Journal of Physiology - Cell Physiology, 2018, 315, C247-C257.	4.6	35
136	SKELETAL MUSCLE ADAPTABILITY. III: MUSCLE PROPERTIES FOLLOWING CHRONIC ELECTRICAL STIMULATION. Developmental Medicine and Child Neurology, 1986, 28, 662-670.	2.1	34
137	Evidence for increased myofibrillar mobility in desmin-null mouse skeletal muscle. Journal of Experimental Biology, 2002, 205, 321-5.	1.7	34
138	Systems analysis of transcriptional data provides insights into muscle's biological response to botulinum toxin. Muscle and Nerve, 2014, 50, 744-758.	2.2	33
139	Skeletal muscle recovery after tenotomy and 7-day delayed muscle length restoration. , 2000, 23, 707-714.		32
140	Simultaneous Imaging and Functional Assessment of Cytoskeletal Protein Connections in Passively Loaded Single Muscle Cells. Journal of Histochemistry and Cytochemistry, 2003, 51, 19-29.	2.5	32
141	Syncoilin is required for generating maximum isometric stress in skeletal muscle but dispensable for muscle cytoarchitecture. American Journal of Physiology - Cell Physiology, 2008, 294, C1175-C1182.	4.6	32
142	Contribution of extracellular matrix components to the stiffness of skeletal muscle contractures in patients with cerebral palsy. Connective Tissue Research, 2021, 62, 287-298.	2.3	32
143	Influence of myosin isoforms on contractile properties of intact muscle fibers from <i>Rana pipiens</i> . American Journal of Physiology - Cell Physiology, 2002, 282, C835-C844.	4.6	31
144	Muscle extracellular matrix applies a transverse stress on fibers with axial strain. Journal of Biomechanics, 2011, 44, 1618-1620.	2.1	31

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145	The nebulin SH3 domain is dispensable for normal skeletal muscle structure but is required for effective active load bearing in mouse. <i>Journal of Cell Science</i> , 2013, 126, 5477-89.	2.0	31
146	Comparison of pelvic muscle architecture between humans and commonly used laboratory species. <i>International Urogynecology Journal</i> , 2014, 25, 1507-1515.	1.4	30
147	Miniaturized wireless, skin-integrated sensor networks for quantifying full-body movement behaviors and vital signs in infants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	30
148	Length-tension relationship of the external anal sphincter muscle: implications for the anal canal function. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 295, G367-G373.	3.4	29
149	Correlation between isometric force and intramuscular pressure in rabbit tibialis anterior muscle with an intact anterior compartment. <i>Muscle and Nerve</i> , 2009, 40, 79-85.	2.2	29
150	Intrinsic Hand Muscle Function, Part 1: Creating a Functional Grasp. <i>Journal of Hand Surgery</i> , 2013, 38, 2093-2099.	1.6	29
151	The mechanical strength of side-to-side tendon repair with mismatched tendon size and shape. <i>Journal of Hand Surgery: European Volume</i> , 2015, 40, 239-245.	1.0	29
152	High Stiffness of Human Digital Flexor Tendons Is Suited for Precise Finger Positional Control. <i>Journal of Neurophysiology</i> , 2006, 96, 2815-2818.	1.8	28
153	Muscle Gene Expression Patterns in Human Rotator Cuff Pathology. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 1558-1565.	3.0	28
154	Effect of Supraspinatus Tendon Injury on Supraspinatus and Infraspinatus Muscle Passive Tension and Associated Biochemistry. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, e175.	3.0	28
155	Augmenting Clinical Outcome Measures of Gait and Balance with a Single Inertial Sensor in Age-Ranged Healthy Adults. <i>Sensors</i> , 2019, 19, 4537.	3.8	28
156	SKELETAL MUSCLE ADAPTABILITY, II: MUSCLE PROPERTIES FOLLOWING SPINAL CORD INJURY. <i>Developmental Medicine and Child Neurology</i> , 1986, 28, 533-542.	2.1	27
157	Quantification of Partial or Complete A4 Pulley Release With FDP Repair in Cadaveric Tendons. <i>Journal of Hand Surgery</i> , 2011, 36, 439-445.	1.6	27
158	Muscle wasting and adipose tissue browning in infantile nephropathic cystinosis. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2016, 7, 152-164.	7.3	27
159	Light diffraction studies of active muscle fibres as a function of sarcomere length. <i>Journal of Muscle Research and Cell Motility</i> , 1981, 2, 215-224.	2.0	26
160	Myopalladin promotes muscle growth through modulation of the serum response factor pathway. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 169-194.	7.3	26
161	Vitamin D repletion ameliorates adipose tissue browning and muscle wasting in infantile nephropathic cystinosis-associated cachexia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 120-134.	7.3	26
162	Myosin isoforms in anuran skeletal muscle: Their influence on contractile properties and in vivo muscle function. <i>Microscopy Research and Technique</i> , 2000, 50, 443-457.	2.2	25

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163	In vitro cyclic tensile testing of combined peripheral and core flexor tenorrhaphy suture techniques. Journal of Hand Surgery, 2002, 27, 518-524.	1.6	25
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