

Seward B Rutkove

List of Publications by Year in descending order

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217
papers

7,241
citations

57758

44
h-index

85541

71
g-index

220
all docs

220
docs citations

220
times ranked

5705
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural history of infantile-onset spinal muscular atrophy. <i>Annals of Neurology</i> , 2017, 82, 883-891.	5.3	276
2	Electrical impedance myography: Background, current state, and future directions. <i>Muscle and Nerve</i> , 2009, 40, 936-946.	2.2	243
3	Lumbar Intraspinal Injection of Neural Stem Cells in Patients with Amyotrophic Lateral Sclerosis: Results of a Phase I Trial in 12 Patients. <i>Stem Cells</i> , 2012, 30, 1144-1151.	3.2	243
4	Effects of temperature on neuromuscular electrophysiology. <i>Muscle and Nerve</i> , 2001, 24, 867-882.	2.2	237
5	Biomarkers of sarcopenia in clinical trials—recommendations from the International Working Group on Sarcopenia. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2012, 3, 181-190.	7.3	237
6	Intraspinal neural stem cell transplantation in amyotrophic lateral sclerosis: Phase 1 trial outcomes. <i>Annals of Neurology</i> , 2014, 75, 363-373.	5.3	184
7	Electromyography and magnetic resonance imaging in the evaluation of radiculopathy. , 1999, 22, 151-155.		137
8	Mechanisms, models and biomarkers in amyotrophic lateral sclerosis. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2013, 14, 19-32.	1.7	135
9	Restless legs syndrome in patients with polyneuropathy. , 1996, 19, 670-672.		128
10	Transplantation of spinal cord-derived neural stem cells for ALS. <i>Neurology</i> , 2016, 87, 392-400.	1.1	127
11	Electrical impedance myography as a biomarker to assess ALS progression. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2012, 13, 439-445.	2.1	125
12	Localized bioimpedance analysis in the evaluation of neuromuscular disease. <i>Muscle and Nerve</i> , 2002, 25, 390-397.	2.2	124
13	Standards for quantification of EMG and neurography. <i>Clinical Neurophysiology</i> , 2019, 130, 1688-1729.	1.5	124
14	Standards of instrumentation of EMG. <i>Clinical Neurophysiology</i> , 2020, 131, 243-258.	1.5	109
15	Baseline results of the NeuroNEXT spinal muscular atrophy infant biomarker study. <i>Annals of Clinical and Translational Neurology</i> , 2016, 3, 132-145.	3.7	106
16	Electrical impedance myography to assess outcome in amyotrophic lateral sclerosis clinical trials. <i>Clinical Neurophysiology</i> , 2007, 118, 2413-2418.	1.5	96
17	Electrical Impedance Myography and Its Applications in Neuromuscular Disorders. <i>Neurotherapeutics</i> , 2017, 14, 107-118.	4.4	92
18	Characterizing spinal muscular atrophy with electrical impedance myography. <i>Muscle and Nerve</i> , 2010, 42, 915-921.	2.2	88

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19	ALS biomarkers for therapy development: State of the field and future directions. <i>Muscle and Nerve</i> , 2016, 53, 169-182.	2.2	85
20	Nerve, muscle, and neuromuscular junction electrophysiology at high temperature. <i>Muscle and Nerve</i> , 1997, 20, 431-436.	2.2	82
21	Assessing spinal muscular atrophy with quantitative ultrasound. <i>Neurology</i> , 2010, 75, 526-531.	1.1	82
22	Assessing neuromuscular disease with multifrequency electrical impedance myography. <i>Muscle and Nerve</i> , 2006, 34, 595-602.	2.2	79
23	Effect of Ezogabine on Cortical and Spinal Motor Neuron Excitability in Amyotrophic Lateral Sclerosis. <i>JAMA Neurology</i> , 2021, 78, 186.	9.0	79
24	Sural/radial amplitude ratio in the diagnosis of mild axonal polyneuropathy. , 1997, 20, 1236-1241.		71
25	Minimal training is required to reliably perform quantitative ultrasound of muscle. <i>Muscle and Nerve</i> , 2014, 50, 124-128.	2.2	70
26	Electrical impedance of muscle during isometric contraction. <i>Physiological Measurement</i> , 2003, 24, 213-234.	2.1	68
27	Teleneurology during the COVID-19 pandemic: A step forward in modernizing medical care. <i>Journal of the Neurological Sciences</i> , 2020, 414, 116930.	0.6	67
28	Electrical impedance myography correlates with standard measures of Als severity. <i>Muscle and Nerve</i> , 2014, 49, 441-443.	2.2	61
29	Quantitative muscle ultrasound detects disease progression in Duchenne muscular dystrophy. <i>Annals of Neurology</i> , 2017, 81, 633-640.	5.3	61
30	Discriminating neurogenic from myopathic disease via measurement of muscle anisotropy. <i>Muscle and Nerve</i> , 2009, 39, 16-24.	2.2	60
31	Effects of age on muscle as measured by electrical impedance myography. <i>Physiological Measurement</i> , 2006, 27, 953-959.	2.1	59
32	Electrical impedance myography in spinal muscular atrophy: A longitudinal study. <i>Muscle and Nerve</i> , 2012, 45, 642-647.	2.2	57
33	Present Uses, Future Applications, and Technical Underpinnings of Electrical Impedance Myography. <i>Current Neurology and Neuroscience Reports</i> , 2017, 17, 86.	4.2	56
34	Quantitative muscle ultrasound in Duchenne muscular dystrophy: A comparison of techniques. <i>Muscle and Nerve</i> , 2015, 51, 207-213.	2.2	55
35	Optimizing Electrode Configuration for Electrical Impedance Measurements of Muscle via the Finite Element Method. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 1446-1452.	4.2	54
36	Improved ALS clinical trials through frequent at-home self-assessment: a proof of concept study. <i>Annals of Clinical and Translational Neurology</i> , 2020, 7, 1148-1157.	3.7	54

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37	Electrical impedance myography in the detection of radiculopathy. <i>Muscle and Nerve</i> , 2005, 32, 335-341.	2.2	52
38	Electrical impedance myography for assessment of Duchenne muscular dystrophy. <i>Annals of Neurology</i> , 2017, 81, 622-632.	5.3	52
39	2016 American College of Rheumatology/European League Against Rheumatism Criteria for Minimal, Moderate, and Major Clinical Response in Adult Dermatomyositis and Polymyositis: An International Myositis Assessment and Clinical Studies Group/Paediatric Rheumatology International Trials Organisation Collaborative Initiative. <i>Arthritis and Rheumatology</i> , 2017, 69, 898-910.	5.6	52
40	Neurophysiological biomarkers in amyotrophic lateral sclerosis. <i>Current Opinion in Neurology</i> , 2018, 31, 640-647.	3.6	51
41	Critical appraisal of the use of alpha lipoic acid (thioctic acid) in the treatment of symptomatic diabetic polyneuropathy. <i>Therapeutics and Clinical Risk Management</i> , 2011, 7, 377.	2.0	50
42	Cross-sectional Evaluation of Electrical Impedance Myography and Quantitative Ultrasound for the Assessment of Duchenne Muscular Dystrophy in a Clinical Trial Setting. <i>Pediatric Neurology</i> , 2014, 51, 88-92.	2.1	50
43	Electrical Impedance Myography in the Assessment of Disuse Atrophy. <i>Archives of Physical Medicine and Rehabilitation</i> , 2009, 90, 1806-1810.	0.9	49
44	Electrical impedance myography for monitoring motor neuron loss in the SOD1 G93A amyotrophic lateral sclerosis rat. <i>Clinical Neurophysiology</i> , 2011, 122, 2505-2511.	1.5	49
45	Electrical impedance myography in duchenne muscular dystrophy and healthy controls: A multicenter study of reliability and validity. <i>Muscle and Nerve</i> , 2015, 52, 592-597.	2.2	49
46	Three ulnar nerve conduction studies in patients with ulnar neuropathy at the elbow. <i>Archives of Physical Medicine and Rehabilitation</i> , 1998, 79, 87-89.	0.9	47
47	Clinical Measures of Disease Progression in Amyotrophic Lateral Sclerosis. <i>Neurotherapeutics</i> , 2015, 12, 384-393.	4.4	46
48	Test-retest reproducibility of 50kHz linear-electrical impedance myography. <i>Clinical Neurophysiology</i> , 2006, 117, 1244-1248.	1.5	45
49	Electrophysiologic Biomarkers for Assessing Disease Progression and the Effect of Riluzole in SOD1 G93A ALS Mice. <i>PLoS ONE</i> , 2013, 8, e65976.	2.5	45
50	Fibrillations in lumbosacral paraspinal muscles of normal subjects. , 1998, 21, 1347-1349.		44
51	Electrical impedance myography for the <i>in vivo</i> and <i>ex vivo</i> assessment of muscular dystrophy (<i>mdx</i>) mouse muscle. <i>Muscle and Nerve</i> , 2014, 49, 829-835.	2.2	44
52	A novel partial gravity ground-based analog for rats via quadrupedal unloading. <i>Journal of Applied Physiology</i> , 2018, 125, 175-182.	2.5	44
53	The neuromuscular impact of symptomatic SMN restoration in a mouse model of spinal muscular atrophy. <i>Neurobiology of Disease</i> , 2016, 87, 116-123.	4.4	42
54	ALS longitudinal studies with frequent data collection at home: study design and baseline data. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2019, 20, 61-67.	1.7	42

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55	Myotonia in colchicine myoneuropathy. , 1996, 19, 870-875.		41
56	Electrical characteristics of rat skeletal muscle in immaturity, adulthood and after sciatic nerve injury, and their relation to muscle fiber size. <i>Physiological Measurement</i> , 2009, 30, 1415-1427.	2.1	41
57	Impaired Distal Thermoregulation in Diabetes and Diabetic Polyneuropathy. <i>Diabetes Care</i> , 2009, 32, 671-676.	8.6	41
58	Neuroprotective effects of Kv7 channel agonist, retigabine, for cisplatin-induced peripheral neuropathy. <i>Neuroscience Letters</i> , 2011, 505, 223-227.	2.1	41
59	Age- and gender-associated differences in electrical impedance values of skeletal muscle. <i>Physiological Measurement</i> , 2013, 34, 1611-1622.	2.1	41
60	Adaptive Platform Trials to Transform Amyotrophic Lateral Sclerosis Therapy Development. <i>Annals of Neurology</i> , 2022, 91, 165-175.	5.3	41
61	A Technique for Performing Electrical Impedance Myography in the Mouse Hind Limb: Data in Normal and ALS SOD1 G93A Animals. <i>PLoS ONE</i> , 2012, 7, e45004.	2.5	39
62	Optimizing electrical impedance myography measurements by using a multifrequency ratio: A study in Duchenne muscular dystrophy. <i>Clinical Neurophysiology</i> , 2015, 126, 202-208.	1.5	39
63	Electrical Impedance Methods in Neuromuscular Assessment: An Overview. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2019, 9, a034405.	6.2	39
64	Assessment of Alterations in the Electrical Impedance of Muscle After Experimental Nerve Injury via Finite-Element Analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 1585-1591.	4.2	37
65	Guidelines to electrode positioning for human and animal electrical impedance myography research. <i>Scientific Reports</i> , 2016, 6, 32615.	3.3	37
66	Reducing sample size requirements for future ALS clinical trials with a dedicated electrical impedance myography system. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2018, 19, 555-561.	1.7	37
67	Utilizing a handheld electrode array for localized muscle impedance measurements. <i>Muscle and Nerve</i> , 2012, 46, 257-263.	2.2	35
68	Circulating miRNA Spaceflight Signature Reveals Targets for Countermeasure Development. <i>Cell Reports</i> , 2020, 33, 108448.	6.4	35
69	Optimizing measurement of the electrical anisotropy of muscle. <i>Muscle and Nerve</i> , 2008, 37, 560-565.	2.2	34
70	Electrical impedance myography at 50kHz in the rat: Technique, reproducibility, and the effects of sciatic injury and recovery. <i>Clinical Neurophysiology</i> , 2009, 120, 1534-1538.	1.5	32
71	Electrical impedance myography in the evaluation of the tongue musculature in amyotrophic lateral sclerosis. <i>Muscle and Nerve</i> , 2015, 52, 584-591.	2.2	32
72	Impedance Alterations in Healthy and Diseased Mice During Electrically Induced Muscle Contraction. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 1602-1612.	4.2	32

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73	Electrode position and size in electrical impedance myography. <i>Clinical Neurophysiology</i> , 2005, 116, 290-299.	1.5	31
74	Toward Electrical Impedance Tomography Coupled Ultrasound Imaging for Assessing Muscle Health. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 1409-1419.	8.9	31
75	A 52-Year-Old Woman With Disabling Peripheral Neuropathy. <i>JAMA - Journal of the American Medical Association</i> , 2009, 302, 1451.	7.4	29
76	Critically re-evaluating a common technique. <i>Neurology</i> , 2016, 86, 218-223.	1.1	29
77	Repeatability of Commonly Used Speech and Language Features for Clinical Applications. <i>Digital Biomarkers</i> , 2020, 4, 109-122.	4.4	29
78	Reference values for 50 μ s electrical impedance myography. <i>Muscle and Nerve</i> , 2008, 38, 1128-1132.	2.2	28
79	Foot Temperature in Healthy Individuals. <i>Journal of the American Podiatric Medical Association</i> , 2010, 100, 258-264.	0.3	28
80	The effect of subcutaneous fat on electrical impedance myography when using a handheld electrode array: The case for measuring reactance. <i>Clinical Neurophysiology</i> , 2013, 124, 400-404.	1.5	28
81	Distinguishing neuromuscular disorders based on the passive electrical material properties of muscle. <i>Muscle and Nerve</i> , 2015, 51, 49-55.	2.2	28
82	A Comparison of Three Electrophysiological Methods for the Assessment of Disease Status in a Mild Spinal Muscular Atrophy Mouse Model. <i>PLoS ONE</i> , 2014, 9, e111428.	2.5	27
83	Estimating Myofiber Size With Electrical Impedance Myography: a Study In Amyotrophic Lateral Sclerosis MICE. <i>Muscle and Nerve</i> , 2018, 58, 713-717.	2.2	27
84	Repetitive nerve stimulation for the evaluation of peripheral nerve hyperexcitability. <i>Journal of the Neurological Sciences</i> , 2004, 221, 47-52.	0.6	26
85	Sensitivity distribution simulations of surface electrode configurations for electrical impedance myography. <i>Muscle and Nerve</i> , 2017, 56, 887-895.	2.2	26
86	Diagnostic Modalities for Acute Compartment Syndrome of the Extremities. <i>JAMA Surgery</i> , 2019, 154, 655.	4.3	26
87	Early detection and tracking of bulbar changes in ALS via frequent and remote speech analysis. <i>Npj Digital Medicine</i> , 2020, 3, 132.	10.9	26
88	Pain Phenotypes in Rare Musculoskeletal and Neuromuscular Diseases. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 124, 267-290.	6.1	26
89	Electrical impedance myography detects age-related muscle change in mice. <i>PLoS ONE</i> , 2017, 12, e0185614.	2.5	25
90	Electrical impedance myography as a biomarker for ALS. <i>Lancet Neurology</i> , The, 2009, 8, 226.	10.2	24

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91	Profiling age-related muscle weakness and wasting: neuromuscular junction transmission as a driver of age-related physical decline. <i>GeroScience</i> , 2021, 43, 1265-1281.	4.6	24
92	Pseudofacilitation: A temperature-sensitive phenomenon. <i>Muscle and Nerve</i> , 2000, 23, 115-118.	2.2	23
93	Machine learning algorithms to classify spinal muscular atrophy subtypes. <i>Neurology</i> , 2012, 79, 358-364.	1.1	23
94	Predicting myofiber size with electrical impedance myography: A study in immature mice. <i>Muscle and Nerve</i> , 2018, 58, 106-113.	2.2	23
95	A Moderate Daily Dose of Resveratrol Mitigates Muscle Deconditioning in a Martian Gravity Analog. <i>Frontiers in Physiology</i> , 2019, 10, 899.	2.8	23
96	Electrodiagnostic Automation: Principles and Practice. <i>Physical Medicine and Rehabilitation Clinics of North America</i> , 2005, 16, 1015-1032.	1.3	21
97	Evaluation of Electrical Impedance as a Biomarker of Myostatin Inhibition in Wild Type and Muscular Dystrophy Mice. <i>PLoS ONE</i> , 2015, 10, e0140521.	2.5	21
98	Single and modeled multifrequency electrical impedance myography parameters and their relationship to force production in the ALS SOD1G93A mouse. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2016, 17, 397-403.	1.7	21
99	Noninvasive assessment of muscle injury in healthy and dystrophic animals with electrical impedance myography. <i>Muscle and Nerve</i> , 2017, 56, E85-E94.	2.2	21
100	Ambulatory foot temperature measurement: A new technique in polyneuropathy evaluation. <i>Muscle and Nerve</i> , 2003, 27, 737-742.	2.2	20
101	Electrical impedance in bovine skeletal muscle as a model for the study of neuromuscular disease. <i>Physiological Measurement</i> , 2006, 27, 1269-1279.	2.1	20
102	High-temperature repetitive nerve stimulation in myasthenia gravis. , 1998, 21, 1414-1418.		19
103	Localized Muscle Impedance Abnormalities in Amyotrophic Lateral Sclerosis. <i>Journal of Clinical Neuromuscular Disease</i> , 2009, 10, 90-96.	0.7	19
104	Assessment OF aged <i>mdx</i> mice by electrical impedance myography and magnetic resonance imaging. <i>Muscle and Nerve</i> , 2015, 52, 598-604.	2.2	19
105	Optimizing electrical impedance myography of the tongue in amyotrophic lateral sclerosis. <i>Muscle and Nerve</i> , 2017, 55, 539-543.	2.2	19
106	The effect of subacute denervation on the electrical anisotropy of skeletal muscle: Implications for clinical diagnostic testing. <i>Clinical Neurophysiology</i> , 2010, 121, 882-886.	1.5	18
107	An improved electrical impedance myography (EIM) tongue array for use in clinical trials. <i>Clinical Neurophysiology</i> , 2016, 127, 932-935.	1.5	18
108	Longitudinal time course of muscle impairments during partial weight-bearing in rats. <i>Npj Microgravity</i> , 2019, 5, 20.	3.7	18

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109	Coexistent entrapment neuropathies in patients with amyotrophic lateral sclerosis. Archives of Physical Medicine and Rehabilitation, 1996, 77, 1186-1188.	0.9	17
110	Heat sensitivity of sensory fibers in carpal tunnel syndrome. , 1999, 22, 37-42.		17
111	Muscle compression improves reliability of ultrasound echo intensity. Muscle and Nerve, 2018, 57, 423-429.	2.2	17
112	Separation of Subcutaneous Fat From Muscle in Surface Electrical Impedance Myography Measurements Using Model Component Analysis. IEEE Transactions on Biomedical Engineering, 2019, 66, 354-364.	4.2	17
113	Electrical impedance myography for the detection of muscle inflammation induced by λ -carrageenan. PLoS ONE, 2019, 14, e0223265.	2.5	17
114	Predicting myofiber cross-sectional area and triglyceride content with electrical impedance myography: A study in db/db mice. Muscle and Nerve, 2021, 63, 127-140.	2.2	17
115	Antisense oligonucleotide and adjuvant exercise therapy reverse fatigue in old mice with myotonic dystrophy. Molecular Therapy - Nucleic Acids, 2021, 23, 393-405.	5.1	17
116	Electrical impedance myography: Transitioning from human to animal studies. Clinical Neurophysiology, 2006, 117, 1844-1849.	1.5	16
117	Electrical impedance myography in the diagnosis of radiculopathy. Muscle and Nerve, 2013, 48, 800-805.	2.2	16
118	Standalone IoT Bioimpedance Device Supporting Real-Time Online Data Access. IEEE Internet of Things Journal, 2019, 6, 9545-9554.	8.7	16
119	Exploring the relationship between electrical impedance myography and quantitative ultrasound parameters in Duchenne muscular dystrophy. Clinical Neurophysiology, 2019, 130, 515-520.	1.5	16
120	Assessing spinal muscular atrophy with quantitative ultrasound. Neurology, 2011, 76, 933-934.	1.1	15
121	Estimating myofiber cross-sectional area and connective tissue deposition with electrical impedance myography: A study in $D2$ mice. Muscle and Nerve, 2021, 63, 941-950.	2.2	15
122	Electrical impedance myography as a biomarker of myostatin inhibition with ActRIIB-mFc: a study in wild-type mice. Future Science OA, 2018, 4, FSO308.	1.9	14
123	Mimicking a Space Mission to Mars Using Hindlimb Unloading and Partial Weight Bearing in Rats. Journal of Visualized Experiments, 2019, , .	0.3	14
124	Electrical impedance myography for reducing sample size in Duchenne muscular dystrophy trials. Annals of Clinical and Translational Neurology, 2020, 7, 4-14.	3.7	14
125	Sex may influence motor phenotype in a novel rodent model of cerebral palsy. Neurobiology of Disease, 2020, 134, 104711.	4.4	14
126	A methodology for the real-time measurement of distal extremity temperature. Physiological Measurement, 2007, 28, 1421-1428.	2.1	13

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127	Quantifying muscle asymmetries in cervical dystonia with electrical impedance: A preliminary assessment. <i>Clinical Neurophysiology</i> , 2011, 122, 1027-1031.	1.5	13
128	Accommodation to hyperpolarizing currents: Differences between motor and sensory nerves in mice. <i>Neuroscience Letters</i> , 2012, 518, 111-116.	2.1	13
129	Inter-session reliability of electrical impedance myography in children in a clinical trial setting. <i>Clinical Neurophysiology</i> , 2015, 126, 1790-1796.	1.5	13
130	Tongue electrical impedance in amyotrophic lateral sclerosis modeled using the finite element method. <i>Clinical Neurophysiology</i> , 2016, 127, 1886-1890.	1.5	13
131	Using Electrical Impedance Myography as a Biomarker of Muscle Deconditioning in Rats Exposed to Micro- and Partial-Gravity Analogs. <i>Frontiers in Physiology</i> , 2020, 11, 557796.	2.8	13
132	Conference report on contractures in musculoskeletal and neurological conditions. <i>Muscle and Nerve</i> , 2020, 61, 740-744.	2.2	13
133	Effects of mexiletine on hyperexcitability in sporadic amyotrophic lateral sclerosis: Preliminary findings from a small phase II randomized controlled trial. <i>Muscle and Nerve</i> , 2021, 63, 371-383.	2.2	13
134	Composite Biomarkers for Assessing Duchenne Muscular Dystrophy: An Initial Assessment. <i>Pediatric Neurology</i> , 2015, 52, 202-205.	2.1	12
135	Quantitative Ultrasound Assessment of Duchenne Muscular Dystrophy Using Edge Detection Analysis. <i>Journal of Ultrasound in Medicine</i> , 2016, 35, 1889-1897.	1.7	12
136	Loss of electrical anisotropy is an unrecognized feature of dystrophic muscle that may serve as a convenient index of disease status. <i>Clinical Neurophysiology</i> , 2016, 127, 3546-3551.	1.5	12
137	Non-invasive evaluation of muscle disease in the canine model of Duchenne muscular dystrophy by electrical impedance myography. <i>PLoS ONE</i> , 2017, 12, e0173557.	2.5	12
138	Electrical impedance imaging of human muscle at the microscopic scale using a multi-electrode needle device: A simulation study. <i>Clinical Neurophysiology</i> , 2018, 129, 1704-1708.	1.5	12
139	Dose-dependent skeletal deficits due to varied reductions in mechanical loading in rats. <i>Npj Microgravity</i> , 2020, 6, 15.	3.7	12
140	Estimation of forced vital capacity using speech acoustics in patients with ALS. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2021, 22, 14-21.	1.7	12
141	Electrical Impedance Myography to Detect the Effects of Electrical Muscle Stimulation in Wild Type and Mdx Mice. <i>PLoS ONE</i> , 2016, 11, e0151415.	2.5	12
142	Foot temperature in diabetic polyneuropathy: innocent bystander or unrecognized accomplice?. <i>Diabetic Medicine</i> , 2005, 22, 231-238.	2.3	11
143	Changes of the peripheral nerve excitability in vivo induced by the persistent Na ⁺ current blocker ranolazine. <i>Neuroscience Letters</i> , 2012, 518, 36-40.	2.1	11
144	Altered muscle electrical tissue properties in a mouse model of premature aging. <i>Muscle and Nerve</i> , 2019, 60, 801-810.	2.2	11

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145	Hindlimb suspension in Wistar rats: Sex-based differences in muscle response. <i>Physiological Reports</i> , 2021, 9, e15042.	1.7	11
146	The partial weight-bearing rat model using a pelvic harness does not impact stress or hindlimb blood flow. <i>Acta Astronautica</i> , 2020, 168, 249-255.	3.2	10
147	Partial Weight-Bearing in Female Rats: Proof of Concept in a Martian-Gravity Analog. <i>Frontiers in Physiology</i> , 2020, 11, 302.	2.8	10
148	Potential Utility of Electrical Impedance Myography in Evaluating Age-Related Skeletal Muscle Function Deficits. <i>Frontiers in Physiology</i> , 2021, 12, 666964.	2.8	10
149	Structural and functional properties of bone are compromised in amyotrophic lateral sclerosis mice. <i>Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration</i> , 2018, 19, 457-462.	1.7	9
150	The Value of Imaging and Composition-Based Biomarkers in Duchenne Muscular Dystrophy Clinical Trials. <i>Neurotherapeutics</i> , 2020, 17, 142-152.	4.4	9
151	Electrical impedance myography as a biomarker of inclusion body myositis: A cross-sectional study. <i>Clinical Neurophysiology</i> , 2020, 131, 368-371.	1.5	9
152	Putting the patient first: The validity and value of surface-based electrical impedance myography techniques. <i>Clinical Neurophysiology</i> , 2021, 132, 1752-1753.	1.5	9
153	Modeling and Reproducibility of Twin Concentric Electrical Impedance Myography. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 3068-3077.	4.2	9
154	Forearm velocity in carpal tunnel syndrome: When is slow too slow?. <i>Archives of Physical Medicine and Rehabilitation</i> , 1998, 79, 181-183.	0.9	8
155	Lumbosacral Plexitis. <i>Journal of Clinical Neuromuscular Disease</i> , 2005, 7, 72-78.	0.7	8
156	Cold Exposure Exacerbates the Development of Diabetic Polyneuropathy in the Rat. <i>Experimental Diabetes Research</i> , 2009, 2009, 1-9.	3.8	8
157	Motor unit number estimation in the rat tail using a modified multipoint stimulation technique. <i>Muscle and Nerve</i> , 2009, 40, 115-121.	2.2	8
158	Finite element analysis of electrical impedance myography in the rat hind limb. , 2009, 2009, 630-3.		8
159	Reducing systemic hypermetabolism by inducing hypothyroidism does not prolong survival in the SOD1-G93A mouse. <i>Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders</i> , 2012, 13, 372-377.	2.1	8
160	Assessing duchenne muscular dystrophy with force-controlled ultrasound. , 2014, , .		8
161	Evaluating the clinical relevance of force-correlated ultrasound. , 2014, , .		8
162	A Simplified Time-Domain Fitting Method Based on Fractional Operational Matrix for Cole Parameter Estimation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 1566-1575.	4.7	8

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163	Heat-sensitive conduction block in ulnar neuropathy at the elbow. <i>Clinical Neurophysiology</i> , 2001, 112, 280-285.	1.5	7
164	A handheld Electrical Impedance Myography probe for the assessment of neuromuscular disease. , 2008, 2008, 3566-9.		7
165	Functional Mixed-Effects Modeling of Longitudinal Duchenne Muscular Dystrophy Electrical Impedance Myography Data Using State-Space Approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1761-1768.	4.2	7
166	A Novel Method for Estimating the Fractional Cole Impedance Model Using Single-Frequency DC-Biased Sinusoidal Excitation. <i>Circuits, Systems, and Signal Processing</i> , 2021, 40, 543-558.	2.0	7
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