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	Impact of the KL2/Catalyst Medical Research Investigator Training (CMeRIT) Program on the Careers of Early-Stage Clinical and Translational Investigators. Journal of Clinical and Translational Science, 2022, 6, 1-18.	0.6	0
2	Adaptive Platform Trials to Transform Amyotrophic Lateral Sclerosis Therapy Development. Annals of Neurology, 2022, 91, 165-175.	5.3	41
3	Altered electrical properties in skeletal muscle of mice with glycogen storage disease type II. Scientific Reports, 2022, 12, 5327.	3.3	3
4	Design and pilot testing of a 26â€gauge impedanceâ€electromyography needle in wildâ€type and ALS mice. Muscle and Nerve, 2022, 65, 702-708.	2.2	6
5	On the measurement of skeletal muscle anisotropic permittivity property with a single cross-shaped needle insertion. Scientific Reports, 2022, 12, 8494.	3.3	2
6	Using machine learning algorithms to enhance the diagnostic performance of electrical impedance myography. Muscle and Nerve, 2022, 66, 354-361.	2.2	7
7	Comparison of Quantitative Ultrasound Methods to Classify Dystrophic and Obese Models of Skeletal Muscle. Ultrasound in Medicine and Biology, 2022, 48, 1918-1932.	1.5	2
8	A Novel Method for Estimating the Fractional Cole Impedance Model Using Single-Frequency DC-Biased Sinusoidal Excitation. Circuits, Systems, and Signal Processing, 2021, 40, 543-558.	2.0	7
9	Predicting myofiber crossâ€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
10	Effect of Ezogabine on Cortical and Spinal Motor Neuron Excitability in Amyotrophic Lateral Sclerosis. JAMA Neurology, 2021, 78, 186.	9.0	79
11	To Zoom or Not to Zoom: The Should I Travel Index Revisited during the Coronavirus Disease Pandemic. Annals of Neurology, 2021, 89, 1057-1058.	5.3	1
12	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
13	Estimating myofiber crossâ€sectional area and connective tissue deposition with electrical impedance myography: A study in <scp>D2</scp>â€mdx mice. Muscle and Nerve, 2021, 63, 941-950.	2.2	15
14	Putting the patient first: The validity and value of surface-based electrical impedance myography techniques. Clinical Neurophysiology, 2021, 132, 1752-1753.	1.5	9
15	Profiling age-related muscle weakness and wasting: neuromuscular junction transmission as a driver of age-related physical decline. GeroScience, 2021, 43, 1265-1281.	4.6	24
16	Potential Utility of Electrical Impedance Myography in Evaluating Age-Related Skeletal Muscle Function Deficits. Frontiers in Physiology, 2021, 12, 666964.	2.8	10
17	Pain Phenotypes in Rare Musculoskeletal and Neuromuscular Diseases. Neuroscience and Biobehavioral Reviews, 2021, 124, 267-290.	6.1	26
18	No, it's not 1976 all over again. Annals of Neurology, 2021, 90, 189-190.	5.3	1

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19	Estimation of forced vital capacity using speech acoustics in patients with ALS. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2021, 22, 14-21.	1.7	12
20	The oestrous cycle and skeletal muscle atrophy: Investigations in rodent models of muscle loss. Experimental Physiology, 2021, 106, 2472-2488.	2.0	6
21	Modeling and Reproducibility of Twin Concentric Electrical Impedance Myography. IEEE Transactions on Biomedical Engineering, 2021, 68, 3068-3077.	4.2	9
22	Effects of mexiletine on hyperexcitability in sporadic amyotrophic lateral sclerosis: Preliminary findings from a small phase II randomized controlled trial. Muscle and Nerve, 2021, 63, 371-383.	2.2	13
23	A Bioimpedance-Based Device to Assess the Volume Conduction Properties of the Tongue in Neurological Disorders Affecting Bulbar function. IEEE Open Journal of Engineering in Medicine and Biology, 2021, 2, 278-285.	2.3	3
24	Hindlimb suspension in Wistar rats: Sexâ€based differences in muscle response. Physiological Reports, 2021, 9, e15042.	1.7	11
25	Relationships between in vivo surface and ex vivo electrical impedance myography measurements in three different neuromuscular disorder mouse models. PLoS ONE, 2021, 16, e0259071.	2.5	3
26	Nonhomogeneous volume conduction effects affecting needle electromyography: an analytical and simulation study. Physiological Measurement, 2021, 42, 115005.	2.1	2
27	A Simplified Time-Domain Fitting Method Based on Fractional Operational Matrix for Cole Parameter Estimation. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1566-1575.	4.7	8
28	The partial weight-bearing rat model using a pelvic harness does not impact stress or hindlimb blood flow. Acta Astronautica, 2020, 168, 249-255.	3.2	10
29	The Value of Imaging and Composition-Based Biomarkers in Duchenne Muscular Dystrophy Clinical Trials. Neurotherapeutics, 2020, 17, 142-152.	4.4	9
30	Electrical impedance myography as a biomarker of inclusion body myositis: A cross-sectional study. Clinical Neurophysiology, 2020, 131, 368-371.	1.5	9
31	Standards of instrumentation of EMG. Clinical Neurophysiology, 2020, 131, 243-258.	1.5	109
32	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
33	Sex may influence motor phenotype in a novel rodent model of cerebral palsy. Neurobiology of Disease, 2020, 134, 104711.	4.4	14
34	Using Electrical Impedance Myography as a Biomarker of Muscle Deconditioning in Rats Exposed to Micro- and Partial-Gravity Analogs. Frontiers in Physiology, 2020, 11, 557796.	2.8	13
35	Early detection and tracking of bulbar changes in ALS via frequent and remote speech analysis. Npj Digital Medicine, 2020, 3, 132.	10.9	26
36	Circulating miRNA Spaceflight Signature Reveals Targets for Countermeasure Development. Cell Reports, 2020, 33, 108448.	6.4	35

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37	Reply to: Frequent selfâ€assessments in ALS clinical trials: Worthwhile or an unnecessary burden?. Annals of Clinical and Translational Neurology, 2020, 7, 2076-2077.	3.7	0
38	Teleneurology during the COVID-19 pandemic: A step forward in modernizing medical care. Journal of the Neurological Sciences, 2020, 414, 116930.	0.6	67
39	Dose-dependent skeletal deficits due to varied reductions in mechanical loading in rats. Npj Microgravity, 2020, 6, 15.	3.7	12
40	Improved ALS clinical trials through frequent atâ€home selfâ€assessment: a proof of concept study. Annals of Clinical and Translational Neurology, 2020, 7, 1148-1157.	3.7	54
41	Conference report on contractures in musculoskeletal and neurological conditions. Muscle and Nerve, 2020, 61, 740-744.	2.2	13
42	Electrical impedance myography: MRIâ€like data without the need for MRI. Muscle and Nerve, 2020, 61, 554-556.	2.2	3
43	Partial Weight-Bearing in Female Rats: Proof of Concept in a Martian-Gravity Analog. Frontiers in Physiology, 2020, 11, 302.	2.8	10
44	A robust and novel electrical impedance metric of pulmonary function in ALS patients. Physiological Measurement, 2020, 41, 044005.	2.1	5
45	Repeatability of Commonly Used Speech and Language Features for Clinical Applications. Digital Biomarkers, 2020, 4, 109-122.	4.4	29
46	Bioimpedance Measurement to Evaluate Swallowing in a Patient with Amyotrophic Lateral Sclerosis. IFMBE Proceedings, 2020, , 107-112.	0.3	0
47	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
48	Standalone IoT Bioimpedance Device Supporting Real-Time Online Data Access. IEEE Internet of Things Journal, 2019, 6, 9545-9554.	8.7	16
49	A Moderate Daily Dose of Resveratrol Mitigates Muscle Deconditioning in a Martian Gravity Analog. Frontiers in Physiology, 2019, 10, 899.	2.8	23
50	Numerical estimation of Frickeâ€“Morse impedance model parameters using single-frequency sinusoidal excitation. Physiological Measurement, 2019, 40, 09NT01.	2.1	6
51	Altered muscle electrical tissue properties in a mouse model of premature aging. Muscle and Nerve, 2019, 60, 801-810.	2.2	11
52	Longitudinal time course of muscle impairments during partial weight-bearing in rats. Npj Microgravity, 2019, 5, 20.	3.7	18
53	Electrical impedance myography for the detection of muscle inflammation induced by Î»-carrageenan. PLoS ONE, 2019, 14, e0223265.	2.5	17
54	Standards for quantification of EMG and neurography. Clinical Neurophysiology, 2019, 130, 1688-1729.	1.5	124

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55	Quantitative ultrasound of muscle can detect corticosteroid effects. Clinical Neurophysiology, 2019, 130, 1460-1464.	1.5	6
56	Objective Assessment of Vocal Tremor. , 2019, 2019, 6386-6390.		3
57	Diagnostic Modalities for Acute Compartment Syndrome of the Extremities. JAMA Surgery, 2019, 154, 655.	4.3	26
58	Mimicking a Space Mission to Mars Using Hindlimb Unloading and Partial Weight Bearing in Rats. Journal of Visualized Experiments, 2019, , .	0.3	14
59	Quantitative muscle ultrasound in upper extremity mononeuropathies. Muscle and Nerve, 2019, 60, 67-71.	2.2	2
60	Exploring the relationship between electrical impedance myography and quantitative ultrasound parameters in Duchenne muscular dystrophy. Clinical Neurophysiology, 2019, 130, 515-520.	1.5	16
61	Toward Electrical Impedance Tomography Coupled Ultrasound Imaging for Assessing Muscle Health. IEEE Transactions on Medical Imaging, 2019, 38, 1409-1419.	8.9	31
62	Functional Mixed-Effects Modeling of Longitudinal Duchenne Muscular Dystrophy Electrical Impedance Myography Data Using State-Space Approach. IEEE Transactions on Biomedical Engineering, 2019, 66, 1761-1768.	4.2	7
63	The final frontier: Primary muscle dysfunction in amyotrophic lateral sclerosis. Muscle and Nerve, 2019, 59, 152-153.	2.2	0
64	ALS longitudinal studies with frequent data collection at home: study design and baseline data. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2019, 20, 61-67.	1.7	42
65	Electrical Impedance Methods in Neuromuscular Assessment: An Overview. Cold Spring Harbor Perspectives in Medicine, 2019, 9, a034405.	6.2	39
66	Electrical impedance myography for assessing paraspinal muscles of patients with low back pain. Journal of Electrical Bioimpedance, 2019, 10, 103-109.	0.9	7
67	Muscle compression improves reliability of ultrasound echo intensity. Muscle and Nerve, 2018, 57, 423-429.	2.2	17
68	Predicting myofiber size with electrical impedance myography: A study in immature mice. Muscle and Nerve, 2018, 58, 106-113.	2.2	23
69	Structural and functional properties of bone are compromised in amyotrophic lateral sclerosis mice. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2018, 19, 457-462.	1.7	9
70	Reducing sample size requirements for future ALS clinical trials with a dedicated electrical impedance myography system. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2018, 19, 555-561.	1.7	37
71	Estimating Myofiber Size With Electrical Impedance Myography: a Study In Amyotrophic Lateral Sclerosis MICE. Muscle and Nerve, 2018, 58, 713-717.	2.2	27
72	Neurophysiological biomarkers in amyotrophic lateral sclerosis. Current Opinion in Neurology, 2018, 31, 640-647.	3.6	51

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73	A novel partial gravity ground-based analog for rats via quadrupedal unloading. Journal of Applied Physiology, 2018, 125, 175-182.	2.5	44
74	Electrical impedance imaging of human muscle at the microscopic scale using a multi-electrode needle device: A simulation study. Clinical Neurophysiology, 2018, 129, 1704-1708.	1.5	12
75	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
76	Nonâ€invasive assessment of muscle injury in healthy and dystrophic animals with electrical impedance myography. Muscle and Nerve, 2017, 56, E85-E94.	2.2	21
77	Sensitivity distribution simulations of surface electrode configurations for electrical impedance myography. Muscle and Nerve, 2017, 56, 887-895.	2.2	26
78	A new technology, a new application, and the road ahead. Clinical Neurophysiology, 2017, 128, 382-383.	1.5	0
79	Electrical impedance myography for assessment of Duchenne muscular dystrophy. Annals of Neurology, 2017, 81, 622-632.	5.3	52
80	Quantitative muscle ultrasound detects disease progression in Duchenne muscular dystrophy. Annals of Neurology, 2017, 81, 633-640.	5.3	61
81	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. Arthritis and Rheumatology, 2017, 69, 898-910.	5.6	52
82	On establishing a grant preâ€review process for new investigators. Annals of Neurology, 2017, 82, 495-496.	5.3	0
83	Present Uses, Future Applications, and Technical Underpinnings of Electrical Impedance Myography. Current Neurology and Neuroscience Reports, 2017, 17, 86.	4.2	56
84	Natural history of infantileâ€onset spinal muscular atrophy. Annals of Neurology, 2017, 82, 883-891.	5.3	276
85	NeuroNEXT is at your service. Annals of Neurology, 2017, 82, 857-858.	5.3	2
86	Optimizing electrical impedance myography of the tongue in amyotrophic lateral sclerosis. Muscle and Nerve, 2017, 55, 539-543.	2.2	19
87	Electrical Impedance Myography and Its Applications in Neuromuscular Disorders. Neurotherapeutics, 2017, 14, 107-118.	4.4	92
88	Non-invasive evaluation of muscle disease in the canine model of Duchenne muscular dystrophy by electrical impedance myography. PLoS ONE, 2017, 12, e0173557.	2.5	12
89	Electrical Impedance Myography and Its Application in Pediatric Neuromuscular Disorders. , 2017, , 169-178.		1
90	Electrical impedance myography detects age-related muscle change in mice. PLoS ONE, 2017, 12, e0185614.	2.5	25

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91	Impedance Alterations in Healthy and Diseased Mice During Electrically Induced Muscle Contraction. IEEE Transactions on Biomedical Engineering, 2016, 63, 1602-1612.	4.2	32
92	Force-controlled ultrasound to measure passive mechanical properties of muscle in Duchenne muscular dystrophy. , 2016, 2016, 2865-2868.		3
93	The neuromuscular impact of symptomatic SMN restoration in a mouse model of spinal muscular atrophy. Neurobiology of Disease, 2016, 87, 116-123.	4.4	42
94	Single and modeled multifrequency electrical impedance myography parameters and their relationship to force production in the ALS SOD1G93A mouse. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2016, 17, 397-403.	1.7	21
95	Quantitative Ultrasound Assessment of Duchenne Muscular Dystrophy Using Edge Detection Analysis. Journal of Ultrasound in Medicine, 2016, 35, 1889-1897.	1.7	12
96	Baseline results of the Neuro<scp>NEXT</scp> spinal muscular atrophy infant biomarker study. Annals of Clinical and Translational Neurology, 2016, 3, 132-145.	3.7	106
97	Transplantation of spinal cordâ€“derived neural stem cells for ALS. Neurology, 2016, 87, 392-400.	1.1	127
98	Loss of electrical anisotropy is an unrecognized feature of dystrophic muscle that may serve as a convenient index of disease status. Clinical Neurophysiology, 2016, 127, 3546-3551.	1.5	12
99	Guidelines to electrode positioning for human and animal electrical impedance myography research. Scientific Reports, 2016, 6, 32615.	3.3	37
100	Reply. Annals of Neurology, 2016, 79, 334-334.	5.3	2
101	An improved electrical impedance myography (EIM) tongue array for use in clinical trials. Clinical Neurophysiology, 2016, 127, 932-935.	1.5	18
102	ALS biomarkers for therapy development: State of the field and future directions. Muscle and Nerve, 2016, 53, 169-182.	2.2	85
103	Tongue electrical impedance in amyotrophic lateral sclerosis modeled using the finite element method. Clinical Neurophysiology, 2016, 127, 1886-1890.	1.5	13
104	Critically re-evaluating a common technique. Neurology, 2016, 86, 218-223.	1.1	29
105	Electrical Impedance Myography to Detect the Effects of Electrical Muscle Stimulation in Wild Type and Mdx Mice. PLoS ONE, 2016, 11, e0151415.	2.5	12
106	Electrical impedance myography in the evaluation of the tongue musculature in amyotrophic lateral sclerosis. Muscle and Nerve, 2015, 52, 584-591.	2.2	32
107	To travel or not to travel: The modern day struggle of the academic researcher. Annals of Neurology, 2015, 78, 667-669.	5.3	4
108	Quantitative muscle ultrasound in Duchenne muscular dystrophy: A comparison of techniques. Muscle and Nerve, 2015, 51, 207-213.	2.2	55

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109	Electrical impedance myography in duchenne muscular dystrophy and healthy controls: A multicenter study of reliability and validity. Muscle and Nerve, 2015, 52, 592-597.	2.2	49
110	Assessment OF aged mdx mice by electrical impedance myography and magnetic resonance imaging. Muscle and Nerve, 2015, 52, 598-604.	2.2	19
111	Evaluation of Electrical Impedance as a Biomarker of Myostatin Inhibition in Wild Type and Muscular Dystrophy Mice. PLoS ONE, 2015, 10, e0140521.	2.5	21
112	Composite Biomarkers for Assessing Duchenne Muscular Dystrophy: An Initial Assessment. Pediatric Neurology, 2015, 52, 202-205.	2.1	12
113	Clinical Measures of Disease Progression in Amyotrophic Lateral Sclerosis. Neurotherapeutics, 2015, 12, 384-393.	4.4	46
114	Inter-session reliability of electrical impedance myography in children in a clinical trial setting. Clinical Neurophysiology, 2015, 126, 1790-1796.	1.5	13
115	Distinguishing neuromuscular disorders based on the passive electrical material properties of muscle. Muscle and Nerve, 2015, 51, 49-55.	2.2	28
116	Optimizing electrical impedance myography measurements by using a multifrequency ratio: A study in Duchenne muscular dystrophy. Clinical Neurophysiology, 2015, 126, 202-208.	1.5	39
117	A Comparison of Three Electrophysiological Methods for the Assessment of Disease Status in a Mild Spinal Muscular Atrophy Mouse Model. PLoS ONE, 2014, 9, e111428.	2.5	27
118	Assessing duchenne muscular dystrophy with force-controlled ultrasound. , 2014, , .		8
119	Evaluating the clinical relevance of force-correlated ultrasound. , 2014, , .		8
120	A pilot spectroscopy study on time-varying bioimpedance during electrically-induced muscle contraction. , 2014, 2014, 3739-42.		5
121	Minimal training is required to reliably perform quantitative ultrasound of muscle. Muscle and Nerve, 2014, 50, 124-128.	2.2	70
122	The effect of profound dehydration on electrical impedance of mouseskeletal muscle. , 2014, 2014, 514-7.		5
123	Cross-sectional Evaluation of Electrical Impedance Myography and Quantitative Ultrasound for the Assessment of Duchenne Muscular Dystrophy in a Clinical Trial Setting. Pediatric Neurology, 2014, 51, 88-92.	2.1	50
124	Intraspinal neural stem cell transplantation in amyotrophic lateral sclerosis: Phase 1 trial outcomes. Annals of Neurology, 2014, 75, 363-373.	5.3	184
125	Electrical impedance myography correlates with standard measures of Als severity. Muscle and Nerve, 2014, 49, 441-443.	2.2	61
126	Electrical impedance myography for the in vivo and ex vivo assessment of muscular dystrophy (mdx) mouse muscle. Muscle and Nerve, 2014, 49, 829-835.	2.2	44

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127	Lumbosacral Plexopathies. , 2014, , 1063-1071.		1
128	Mechanisms, models and biomarkers in amyotrophic lateral sclerosis. Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration, 2013, 14, 19-32.	1.7	135
129	The effect of subcutaneous fat on electrical impedance myography when using a handheld electrode array: The case for measuring reactance. Clinical Neurophysiology, 2013, 124, 400-404.	1.5	28
130	Optimizing Electrode Configuration for Electrical Impedance Measurements of Muscle via the Finite Element Method. IEEE Transactions on Biomedical Engineering, 2013, 60, 1446-1452.	4.2	54
131	Age- and gender-associated differences in electrical impedance values of skeletal muscle. Physiological Measurement, 2013, 34, 1611-1622.	2.1	41
132	Electrical impedance myography in the diagnosis of radiculopathy. Muscle and Nerve, 2013, 48, 800-805.	2.2	16
133	Electrophysiologic Biomarkers for Assessing Disease Progression and the Effect of Riluzole in SOD1 G93A ALS Mice. PLoS ONE, 2013, 8, e65976.	2.5	45
134	Machine learning algorithms to classify spinal muscular atrophy subtypes. Neurology, 2012, 79, 358-364.	1.1	23
135	Reducing systemic hypermetabolism by inducing hypothyroidism does not prolong survival in the SOD1-G93A mouse. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2012, 13, 372-377.	2.1	8
136	Biomarkers of sarcopenia in clinical trialsâ€"recommendations from the International Working Group on Sarcopenia. Journal of Cachexia, Sarcopenia and Muscle, 2012, 3, 181-190.	7.3	237
137	Changes of the peripheral nerve excitability in vivo induced by the persistent Na+ current blocker ranolazine. Neuroscience Letters, 2012, 518, 36-40.	2.1	11
138	Accommodation to hyperpolarizing currents: Differences between motor and sensory nerves in mice. Neuroscience Letters, 2012, 518, 111-116.	2.1	13
139	Long-term nerve excitability changes by persistent Na+ current blocker ranolazine. Neuroscience Letters, 2012, 524, 101-106.	2.1	2
140	Alteration in surface muscle electrical anisotropy in the rat SOD1 model of amyotrophic lateral sclerosis. Clinical Neurophysiology, 2012, 123, 206-210.	1.5	5
141	Electrical impedance myography as a biomarker to assess ALS progression. Amyotrophic Lateral Sclerosis and Other Motor Neuron Disorders, 2012, 13, 439-445.	2.1	125
142	A Technique for Performing Electrical Impedance Myography in the Mouse Hind Limb: Data in Normal and ALS SOD1 G93A Animals. PLoS ONE, 2012, 7, e45004.	2.5	39
143	Lumbar Intraspinal Injection of Neural Stem Cells in Patients with Amyotrophic Lateral Sclerosis: Results of a Phase I Trial in 12 Patients. Stem Cells, 2012, 30, 1144-1151.	3.2	243
144	Application of futility analysis to refine jitter recordings in myasthenia gravis. Muscle and Nerve, 2012, 45, 486-491.	2.2	4

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145	Electrical impedance myography in spinal muscular atrophy: A longitudinal study. Muscle and Nerve, 2012, 45, 642-647.	2.2	57
146	Utilizing a handheld electrode array for localized muscle impedance measurements. Muscle and Nerve, 2012, 46, 257-263.	2.2	35
147	Quantifying muscle asymmetries in cervical dystonia with electrical impedance: A preliminary assessment. Clinical Neurophysiology, 2011, 122, 1027-1031.	1.5	13
148	Electrical impedance myography for monitoring motor neuron loss in the SOD1 G93A amyotrophic lateral sclerosis rat. Clinical Neurophysiology, 2011, 122, 2505-2511.	1.5	49
149	Neuroprotective effects of Kv7 channel agonist, retigabine, for cisplatin-induced peripheral neuropathy. Neuroscience Letters, 2011, 505, 223-227.	2.1	41
150	Assessment of Alterations in the Electrical Impedance of Muscle After Experimental Nerve Injury via Finite-Element Analysis. IEEE Transactions on Biomedical Engineering, 2011, 58, 1585-1591.	4.2	37
151	Electrical Impedance for Assessing Muscle. Journal of Biomolecular Screening, 2011, 16, 798-799.	2.6	1
152	Critical appraisal of the use of alpha lipoic acid (thioctic acid) in the treatment of symptomatic diabetic polyneuropathy. Therapeutics and Clinical Risk Management, 2011, 7, 377.	2.0	50
153	Assessing electrical impedance alterations in spinal muscular atrophy via the finite element method. , 2011, 2011, 1871-4.		6
154	Assessing spinal muscular atrophy with quantitative ultrasound. Neurology, 2011, 76, 933-934.	1.1	15
155	Application of angiotensin ii to healthy rat sciatic nerve can produce neuropathy without associated vasculopathy. Muscle and Nerve, 2010, 42, 959-965.	2.2	1
156	Characterizing spinal muscular atrophy with electrical impedance myography. Muscle and Nerve, 2010, 42, 915-921.	2.2	88
157	Diabetic Polyneuropathy and Glucose Controlâ€"Reply. JAMA - Journal of the American Medical Association, 2010, 303, 420.	7.4	0
158	Assessing spinal muscular atrophy with quantitative ultrasound. Neurology, 2010, 75, 526-531.	1.1	82
159	Foot Temperature in Healthy Individuals. Journal of the American Podiatric Medical Association, 2010, 100, 258-264.	0.3	28
160	The effect of subacute denervation on the electrical anisotropy of skeletal muscle: Implications for clinical diagnostic testing. Clinical Neurophysiology, 2010, 121, 882-886.	1.5	18
161	Cold Exposure Exacerbates the Development of Diabetic Polyneuropathy in the Rat. Experimental Diabetes Research, 2009, 2009, 1-9.	3.8	8
162	Electrical characteristics of rat skeletal muscle in immaturity, adulthood and after sciatic nerve injury, and their relation to muscle fiber size. Physiological Measurement, 2009, 30, 1415-1427.	2.1	41

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163	Electrical impedance myography as a biomarker for ALS. Lancet Neurology, The, 2009, 8, 226.	10.2	24
164	Discriminating neurogenic from myopathic disease via measurement of muscle anisotropy. Muscle and Nerve, 2009, 39, 16-24.	2.2	60
165	Motor unit number estimation in the rat tail using a modified multipoint stimulation technique. Muscle and Nerve, 2009, 40, 115-121.	2.2	8
166	Electrical impedance myography: Background, current state, and future directions. Muscle and Nerve, 2009, 40, 936-946.	2.2	243
167	Impaired Distal Thermoregulation in Diabetes and Diabetic Polyneuropathy. Diabetes Care, 2009, 32, 671-676.	8.6	41
168	Electrical Impedance Myography in the Assessment of Disuse Atrophy. Archives of Physical Medicine and Rehabilitation, 2009, 90, 1806-1810.	0.9	49
169	Electrical impedance myography at 50kHz in the rat: Technique, reproducibility, and the effects of sciatic injury and recovery. Clinical Neurophysiology, 2009, 120, 1534-1538.	1.5	32
170	A 52-Year-Old Woman With Disabling Peripheral Neuropathy. JAMA - Journal of the American Medical Association, 2009, 302, 1451.	7.4	29
171	Finite element analysis of electrical impedance myography in the rat hind limb. , 2009, 2009, 630-3.		8
172	Localized Muscle Impedance Abnormalities in Amyotrophic Lateral Sclerosis. Journal of Clinical Neuromuscular Disease, 2009, 10, 90-96.	0.7	19
173	Optimizing measurement of the electrical anisotropy of muscle. Muscle and Nerve, 2008, 37, 560-565.	2.2	34
174	Reference values for 50â€kH<scp>Z</scp> electrical impedance myography. Muscle and Nerve, 2008, 38, 1128-1132.	2.2	28
175	A handheld Electrical Impedance Myography probe for the assessment of neuromuscular disease. , 2008, 2008, 3566-9.		7
176	A methodology for the real-time measurement of distal extremity temperature. Physiological Measurement, 2007, 28, 1421-1428.	2.1	13
177	Psoriatic Arthritis-Associated Polyneuropathy: A Report of Three Cases. Journal of Clinical Neuromuscular Disease, 2007, 9, 248-251.	0.7	5
178	Electrical impedance myography to assess outcome in amyotrophic lateral sclerosis clinical trials. Clinical Neurophysiology, 2007, 118, 2413-2418.	1.5	96
179	Testâ€“retest reproducibility of 50kHz linear-electrical impedance myography. Clinical Neurophysiology, 2006, 117, 1244-1248.	1.5	45
180	Electrical impedance myography: Transitioning from human to animal studies. Clinical Neurophysiology, 2006, 117, 1844-1849.	1.5	16

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181	Assessing neuromuscular disease with multifrequency electrical impedance myography. Muscle and Nerve, 2006, 34, 595-602.	2.2	79
182	Electrical impedance in bovine skeletal muscle as a model for the study of neuromuscular disease. Physiological Measurement, 2006, 27, 1269-1279.	2.1	20
183	Effects of age on muscle as measured by electrical impedance myography. Physiological Measurement, 2006, 27, 953-959.	2.1	59
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