Kiisa Nishikawa

List of Publications by Year
in descending order

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29 papers	1,201 citations	430874 18 h-index	526287 27 g-index
29 all docs	29 docs citations	29 times ranked	943 citing authors

#	Article	IF	Citations
1	Neuromechanics: an integrative approach for understanding motor control. Integrative and Comparative Biology, 2007, 47, 16-54.	2.0	226
2	Is titin a â€˜winding filamentâ€™? A new twist on muscle contraction. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 981-990.	2.6	177
3	Storage and recovery of elastic potential energy powers ballistic prey capture in toads. Journal of Experimental Biology, 2006, 209, 2535-2553.	1.7	93
4	Titin force is enhanced in actively stretched skeletal muscle. Journal of Experimental Biology, 2014, 217, 3629-36.	1.7	90
5	Calcium increases titin N2A binding to F-actin and regulated thin filaments. Scientific Reports, 2018, 8, 14575.	3.3	72
6	Eccentric contraction: unraveling mechanisms of force enhancement and energy conservation. Journal of Experimental Biology, 2016, 219, 189-196.	1.7	70
7	Decreased force enhancement in skeletal muscle sarcomeres with a deletion in titin. Journal of Experimental Biology, 2016, 219, 1311-6.	1.7	52
8	How do Ontogeny, Morphology, and Physiology of Sensory Systems Constrain and Direct the Evolution of Amphibians?. American Naturalist, 1992, 139, S105-S124.	2.1	45
9	Evolutionary Convergence in Nervous Systems: Insights from Comparative Phylogenetic Studies. Brain, Behavior and Evolution, 2002, 59, 240-249.	1.7	45
10	Topography and cytoarchitecture of the motor nuclei in the brainstem of salamanders. Journal of Comparative Neurology, 1988, 278, 181-194.	1.6	34
11	Titin: A Tunable Spring in Active Muscle. Physiology, 2020, 35, 209-217.	3.1	31
12	Huxleysâ€™ Missing Filament: Form and Function of Titin in Vertebrate Striated Muscle. Annual Review of Physiology, 2017, 79, 145-166.	13.1	30
13	Morphology and mechanics of tongue movement in the African pig-nosed frog Hemisus marmoratum: a muscular hydrostatic model. Journal of Experimental Biology, 1999, 202, 771-80.	1.7	30
14	Effects of a titin mutation on force enhancement and force depression in mouse soleus muscles. Journal of Experimental Biology, 2020, 223, .	1.7	29
15	Calcium-dependent titinâ€“thin filament interactions in muscle: observations and theory. Journal of Muscle Research and Cell Motility, 2020, 41, 125-139.	2.0	28
16	What is an artificial muscle? A comparison of soft actuators to biological muscles. Bioinspiration and Biomimetics, 2022, 17, 011001.	2.9	27
17	Titin force enhancement following active stretch of skinned skeletal muscle fibres. Journal of Experimental Biology, 2017, 220, 3110-3118.	1.7	24
18	N2A Titin: Signaling Hub and Mechanical Switch in Skeletal Muscle. International Journal of Molecular Sciences, 2020, 21, 3974.	4.1	24

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19	Optimal length, calcium sensitivity, and twitch characteristics of skeletal muscles from mdm mice with a deletion in N2A titin. Journal of Experimental Biology, 2019, 222, .	1.7	22
20	Morphology of the caudal spinal cord inRana (ranidae) andXenopus (pipidae) tadpoles. Journal of Comparative Neurology, 1988, 269, 193-202.	1.6	20
21	Evolution of Spinal Nerve Number in Anuran Larvae. Brain, Behavior and Evolution, 1989, 33, 15-24.	1.7	9
22	Muscle as a tunable material: implications for achieving muscle-like function in robotic prosthetic devices. Journal of Experimental Biology, 2021, 224, .	1.7	6
23	Severe thermoregulatory deficiencies in mice with a deletion in the titin gene. Journal of Experimental Biology, 2019, 222, .	1.7	4
24	Residual force enhancement is reduced in permeabilized fiber bundles from mdm muscles. Journal of Experimental Biology, 2022, 225, .	1.7	4
25	Does short-term provisioning of resources to prey result in behavioral shifts by rattlesnakes?. Journal of Wildlife Management, 2015, 79, 357-372.	1.8	3
26	Letter to the editor: â€œTitin-actin interaction: the report of its death was an exaggerationâ€• American Journal of Physiology - Cell Physiology, 2016, 310, C622-C622.	4.6	3
27	Stretch-Shortening Cycle Performance and Muscleâ€“Tendon Properties in Dancers and Runners. Journal of Applied Biomechanics, 2021, 37, 547-555.	0.8	3
28	Thermoregulation Deficiencies in Mice with a Deletion in the Muscle Protein Titin. FASEB Journal, 2018, 32, 605.2.	0.5	0
29	Micro-biopsies: a less invasive technique for investigating human muscle fiber mechanics. Journal of Experimental Biology, 2022, 225, .	1.7	0