Lawrence C Rome

List of Publications by Year
in descending order

24	2,403	516710 16	642732 23
papers	citations	h-index	g-index

26	26	26	2262
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Small Ca2+ releases enable hour-long high-frequency contractions in midshipman swimbladder muscle. Journal of General Physiology, 2018, 150, 127-143.	1.9	11
2	Vocal production complexity correlates with neural instructions in the oyster toadfish (Opsanus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	1.7	15
3	Optimized ratiometric calcium sensors for functional in vivo imaging of neurons and T lymphocytes. Nature Methods, 2014, 11, 175-182.	19.0	319
4	Intracellular calcium movements during relaxation and recovery of superfast muscle fibers of the toadfish swimbladder. Journal of General Physiology, 2014, 143, 605-620.	1.9	8
5	Sprawl Angle in Simplified Models of Vertical Climbing: Implications for Robots and Roaches. Applied Bionics and Biomechanics, 2011, 8, 441-452.	1.1	13
6	Paying the piper: the cost of Ca²⁺ pumping during the mating call of toadfish. Journal of Physiology, 2011, 589, 5467-5484.	2.9	16
7	Is high concentration of parvalbumin a requirement for superfast relaxation?. Journal of Muscle Research and Cell Motility, 2009, 30, 57-65.	2.0	17
8	The effect of temperature and thermal acclimation on the sustainable performance of swimming scup. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 1995-2016.	4.0	13
9	DESIGN AND FUNCTION OF SUPERFAST MUSCLES: New Insights into the Physiology of Skeletal Muscle. Annual Review of Physiology, 2006, 68, 193-221.	13.1	131
10	Rubber bands reduce the cost of carrying loads. Nature, 2006, 444, 1023-1024.	27.8	135
11	Generating Electricity While Walking with Loads. Science, 2005, 309, 1725-1728.	12.6	529
12	Cross-bridge blocker BTS permits direct measurement of SR Ca²⁺pump ATP utilization in toadfish swimbladder muscle fibers. American Journal of Physiology - Cell Physiology, 2003, 285, C781-C787.	4.6	32
13	The Design of Vertebrate Muscular Systems: Comparative and Integrative Approaches. Clinical Orthopaedics and Related Research, 2002, 403, S59-S76.	1.5	19
14	VARIATIONS OF PULSE REPETITION RATE IN BOATWHISTLE SOUNDS FROM OYSTER TOADFISHOPSANUS TAUAROUND WAQUOIT BAY, MASSACHUSETTS. Bioacoustics, 2002, 13, 153-173.	1.7	38
15	Jumping in frogs: assessing the design of the skeletal system by anatomically realistic modeling and forward dynamic simulation. Journal of Experimental Biology, 2002, 205, 1683-1702.	1.7	60
16	Functional morphology of proximal hindlimb muscles in the frogRana pipiens. Journal of Experimental Biology, 2002, 205, 1987-2004.	1.7	76
17	Quantitative electrophoretic analysis of myosin heavy chains in single muscle fibers. Journal of Applied Physiology, 2001, 90, 1927-1935.	2.5	63
18	Mutually exclusive muscle designs: the power output of the locomotory and sonic muscles of the oyster toadfish (Opsanus tau). Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 1965-1970.	2.6	37

#	Article	IF	Citations
19	Superfast contractions without superfast energetics: ATP usage by SRâ€Ca 2+ pumps and crossbridges in toadfish swimbladder muscle. Journal of Physiology, 2000, 526, 279-286.	2.9	35
20	The Quest for Speed: Muscles Built for High-Frequency Contractions. Physiology, 1998, 13, 261-268.	3.1	83
21	Quantitative distribution of muscle fiber types in the scupStenotomus chrysops. , 1996, 229, 71-81.		45
22	How fish power swimming. Science, 1993, 261, 340-343.	12.6	211
23	The Influence of Temperature on Muscle Velocity and Sustained Performance in Swimming Carp. Journal of Experimental Biology, 1990, 154, 163-178.	1.7	117
24	Why animals have different muscle fibre types. Nature, 1988, 335, 824-827.	27.8	361