

Lawrence C Rome

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

2,403
citations

516561

16
h-index

642610

23
g-index

26
all docs

26
docs citations

26
times ranked

2262
citing authors

#	ARTICLE	IF	CITATIONS
1	Generating Electricity While Walking with Loads. <i>Science</i> , 2005, 309, 1725-1728.	6.0	529
2	Why animals have different muscle fibre types. <i>Nature</i> , 1988, 335, 824-827.	13.7	361
3	Optimized ratiometric calcium sensors for functional in vivo imaging of neurons and T lymphocytes. <i>Nature Methods</i> , 2014, 11, 175-182.	9.0	319
4	How fish power swimming. <i>Science</i> , 1993, 261, 340-343.	6.0	211
5	Rubber bands reduce the cost of carrying loads. <i>Nature</i> , 2006, 444, 1023-1024.	13.7	135
6	DESIGN AND FUNCTION OF SUPERFAST MUSCLES: New Insights into the Physiology of Skeletal Muscle. <i>Annual Review of Physiology</i> , 2006, 68, 193-221.	5.6	131
7	The Influence of Temperature on Muscle Velocity and Sustained Performance in Swimming Carp. <i>Journal of Experimental Biology</i> , 1990, 154, 163-178.	0.8	117
8	The Quest for Speed: Muscles Built for High-Frequency Contractions. <i>Physiology</i> , 1998, 13, 261-268.	1.6	83
9	Functional morphology of proximal hindlimb muscles in the frog <i>Rana pipiens</i> . <i>Journal of Experimental Biology</i> , 2002, 205, 1987-2004.	0.8	76
10	Quantitative electrophoretic analysis of myosin heavy chains in single muscle fibers. <i>Journal of Applied Physiology</i> , 2001, 90, 1927-1935.	1.2	63
11	Jumping in frogs: assessing the design of the skeletal system by anatomically realistic modeling and forward dynamic simulation. <i>Journal of Experimental Biology</i> , 2002, 205, 1683-1702.	0.8	60
12	Quantitative distribution of muscle fiber types in the scup <i>Stenotomus chrysops</i> . , 1996, 229, 71-81.		45
13	VARIATIONS OF PULSE REPETITION RATE IN BOATWHISTLE SOUNDS FROM OYSTER TOADFISH <i>Opsanus tau</i> AROUND WAQUOIT BAY, MASSACHUSETTS. <i>Bioacoustics</i> , 2002, 13, 153-173.	0.7	38
14	Mutually exclusive muscle designs: the power output of the locomotory and sonic muscles of the oyster toadfish (<i>Opsanus tau</i>). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 1965-1970.	1.2	37
15	Superfast contractions without superfast energetics: ATP usage by SR Ca^{2+} pumps and crossbridges in toadfish swimbladder muscle. <i>Journal of Physiology</i> , 2000, 526, 279-286.	1.3	35
16	Cross-bridge blocker BTS permits direct measurement of SR Ca^{2+} pump ATP utilization in toadfish swimbladder muscle fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 285, C781-C787.	2.1	32
17	The Design of Vertebrate Muscular Systems: Comparative and Integrative Approaches. <i>Clinical Orthopaedics and Related Research</i> , 2002, 403, S59-S76.	0.7	19
18	Is high concentration of parvalbumin a requirement for superfast relaxation?. <i>Journal of Muscle Research and Cell Motility</i> , 2009, 30, 57-65.	0.9	17

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19	Paying the piper: the cost of Ca ²⁺ pumping during the mating call of toadfish. <i>Journal of Physiology</i> , 2011, 589, 5467-5484.	1.3	16
20	Vocal production complexity correlates with neural instructions in the oyster toadfish (<i>Opsanus beta</i>). <i>Journal of Experimental Biology</i> , 2010, 223, 1050-1057.	0.8	15
21	The effect of temperature and thermal acclimation on the sustainable performance of swimming scup. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2007, 362, 1995-2016.	1.8	13
22	Sprawl Angle in Simplified Models of Vertical Climbing: Implications for Robots and Roaches. <i>Applied Bionics and Biomechanics</i> , 2011, 8, 441-452.	0.5	13
23	Small Ca ²⁺ releases enable hour-long high-frequency contractions in midshipman swimbladder muscle. <i>Journal of General Physiology</i> , 2018, 150, 127-143.	0.9	11
24	Intracellular calcium movements during relaxation and recovery of superfast muscle fibers of the toadfish swimbladder. <i>Journal of General Physiology</i> , 2014, 143, 605-620.	0.9	8