Letizia Zullo

List of Publications by Year
in descending order

26 papers	736 citations	623734 14 h-index	642732 23 g-index
27 all docs	27 docs citations	27 times ranked	678 citing authors

#	Article	IF	Citations
1	Cephalopods in neuroscience: regulations, research and the 3Rs. Invertebrate Neuroscience, 2014, 14, 13-36.	1.8	142
2	Nonsomatotopic Organization of the Higher Motor Centers in Octopus. Current Biology, 2009, 19, 1632-1636.	3.9	104
3	A new perspective on the organization of an invertebrate brain. Communicative and Integrative Biology, 2011, 4, 26-29.	1.4	71
4	Optical lace for synthetic afferent neural networks. Science Robotics, 2019, 4, .	17.6	56
5	Use of Peripheral Sensory Information for Central Nervous Control of Arm Movement by Octopus vulgaris. Current Biology, 2020, 30, 4322-4327.e3.	3.9	34
6	Octopus arm regeneration: Role of acetylcholinesterase during morphological modification. Journal of Experimental Marine Biology and Ecology, 2013, 447, 93-99.	1.5	32
7	The making of an octopus arm. EvoDevo, 2015, 6, 19.	3.2	29
8	Motor control pathways in the nervous system of Octopus vulgaris arm. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 271-279.	1.6	29
9	Molecular Determinants of Cephalopod Muscles and Their Implication in Muscle Regeneration. Frontiers in Cell and Developmental Biology, 2017, 5, 53.	3.7	28
10	A new perspective on the organization of an invertebrate brain. Communicative and Integrative Biology, 2011, 4, 26-9.	1.4	26
11	Identification and Expression of Acetylcholinesterase in Octopus vulgaris Arm Development and Regeneration: a Conserved Role for ACHE?. Molecular Neurobiology, 2015, 52, 45-56.	4.0	25
12	Cephalopods Between Science, Art, and Engineering: A Contemporary Synthesis. Frontiers in Communication, 2018, 3, .	1.2	22
13	Embodiment design of soft continuum robots. Advances in Mechanical Engineering, 2016, 8, 168781401664330.	1.6	21
14	Effect of nutrient deprivation on the expression and the epigenetic signature of sirtuin genes. Nutrition, Metabolism and Cardiovascular Diseases, 2018, 28, 418-424.	2.6	17
15	From synaptic input to muscle contraction: arm muscle cells of <i>Octopus vulgaris</i> show unique neuromuscular junction and excitationâ€"contraction coupling properties. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191278.	2.6	15
16	Small-Animal 18F-FDG PET for Research on Octopus vulgaris: Applications and Future Directions in Invertebrate Neuroscience and Tissue Regeneration. Journal of Nuclear Medicine, 2018, 59, 1302-1307.	5.0	12
17	A â€œSpike-Basedâ€•Grammar Underlies Directional Modification in Network Connectivity: Effect on Bursting Activity and Implications for Bio-Hybrids Systems. PLoS ONE, 2012, 7, e49299.	2.5	12
18	Motor Control in Soft-Bodied Animals. , 0, , 495-510.		11

#	Article	IF	Citations
19	The Diversity of Muscles and Their Regenerative Potential across Animals. Cells, 2020, 9, 1925.	4.1	9
20	The application of embodiment theory to the design and control of an octopus-like robotic arm. , 2012, , .		8
21	Beyond muscles: role of intramuscular connective tissue elasticity and passive stiffness in octopus arm muscle function. Journal of Experimental Biology, 2021, 224, .	1.7	8
22	A pragmatic bio-inspired approach to the design of octopus-inspired arms. , 2013, , .		6
23	Synapsins are expressed at neuronal and non-neuronal locations in Octopus vulgaris. Scientific Reports, 2019, 9, 15430.	3.3	6
24	How octopus arm muscle contractile properties and anatomical organization contribute to arm functional specialization. Journal of Experimental Biology, 2022, 225, .	1.7	5
25	mTOR as a Marker of Exercise and Fatigue in Octopus vulgaris Arm. Frontiers in Physiology, 2019, 10, 1161.	2.8	4
26	Protocol for controlled behavioral testing of octopuses using a single-arm tactile discrimination two-choice task. STAR Protocols, 2022, 3, 101192.	1.2	1