Michael Nickel

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8609100/publications.pdf

Version: 2024-02-01

24 papers	1,534 citations	471509 17 h-index	677142 22 g-index
25 all docs	25 docs citations	25 times ranked	3656 citing authors

#	Article	IF	Citations
1	Deep metazoan phylogeny: When different genes tell different stories. Molecular Phylogenetics and Evolution, 2013, 67, 223-233.	2.7	242
2	Independent evolution of striated muscles in cnidarians and bilaterians. Nature, 2012, 487, 231-234.	27.8	221
3	Primmorphs generated from dissociated cells of the sponge Suberites domuncula: a model system for studies of cell proliferation and cell death. Mechanisms of Ageing and Development, 1998, 105, 45-59.	4.6	172
4	Profiling cellular diversity in sponges informs animal cell type and nervous system evolution. Science, 2021, 374, 717-723.	12.6	111
5	Kinetics and rhythm of body contractions in the sponge Tethya wilhelma (Porifera: Demospongiae). Journal of Experimental Biology, 2004, 207, 4515-4524.	1.7	107
6	Evolutionary emergence of synaptic nervous systems: what can we learn from the nonâ€synaptic, nerveless Porifera?. Invertebrate Biology, 2010, 129, 1-16.	0.9	82
7	The contractile sponge epitheliumsensu latoâ€“ body contraction of the demospongeTethya wilhelmais mediated by the pinacoderm. Journal of Experimental Biology, 2011, 214, 1692-1698.	1.7	81
8	GABA and glutamate specifically induce contractions in the sponge Tethya wilhelma. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2007, 193, 1-11.	1.6	65
9	Neuroactive substances specifically modulate rhythmic body contractions in the nerveless metazoon Tethya wilhelma (Demospongiae, Porifera). Frontiers in Zoology, 2006, 3, 7.	2.0	64
10	In vitro sponge fragment culture of Chondrosia reniformis (Nardo, 1847). Journal of Biotechnology, 2003, 100, 147-159.	3.8	60
11	RNA interference in marine and freshwater sponges: actin knockdown in Tethya wilhelma and Ephydatia muelleriby ingested dsRNA expressing bacteria. BMC Biotechnology, 2011, 11, 67.	3.3	49
12	Functional morphology of Tethya species (Porifera): 1. Quantitative 3D-analysis of Tethya wilhelma by synchrotron radiation based X-ray microtomography. Zoomorphology, 2006, 125, 209-223.	0.8	41
13	Comparative studies on two potential methods for the biotechnological production of sponge biomass. Journal of Biotechnology, 2001, 92, 169-178.	3.8	34
14	Like a `rolling stone': quantitative analysis of the body movement and skeletal dynamics of the sponge Tethya wilhelma. Journal of Experimental Biology, 2006, 209, 2839-2846.	1.7	26
15	The need for data standards in zoomorphology. Journal of Morphology, 2013, 274, 793-808.	1.2	23
16	A New Flow-Regulating Cell Type in the Demosponge Tethya wilhelma â€“ Functional Cellular Anatomy of a Leuconoid Canal System. PLoS ONE, 2014, 9, e113153.	2.5	23
17	Sponge budding is a spatiotemporal morphological patterning process: Insights from synchrotron radiation-based x-ray microtomography into the asexual reproduction of Tethya wilhelma. Frontiers in Zoology, 2009, 6, 19.	2.0	22
18	Functional morphology of Tethya species (Porifera): 2. Three-dimensional morphometrics on spicules and skeleton superstructures of T. minuta. Zoomorphology, 2006, 125, 225-239.	0.8	17

#	Article	IF	Citations
19	Phylogeny of the genus Tethya (Tethyidae: Hadromerida: Porifera): molecular and morphological aspects. Journal of the Marine Biological Association of the United Kingdom, 2007, 87, 1615-1627.	0.8	16
20	Cell death and renewal during prey capture and digestion in the carnivorous spongeAsbestopluma hypogea(Porifera: Poecilosclerida). Journal of Experimental Biology, 2012, 215, 3937-43.	1.7	15
21	Description and molecular phylogeny of Tethya leysae sp. nov. (Porifera, Demospongiae, Hadromerida) from the Canadian Northeast Pacific with remarks on the use of microtomography in sponge taxonomy. Zootaxa, 2010, 2422, 1.	0.5	14
22	The nonâ€hierarchical, nonâ€uniformly branching topology of a leuconoid sponge aquiferous system revealed by 3D reconstruction and morphometrics using corrosion casting and Xâ€ray microtomography. Acta Zoologica, 2012, 93, 160-170.	0.8	13
23	High density resolution synchrotron radiation based x-ray microtomography (SR Î¼CT) for quantitative 3D-morphometrics in zoological sciences. , 2008, , .		6
24	The Pre-Nervous System and Beyondâ€"Poriferan Milestones in the Early Evolution of the Metazoan Nervous System. , 2010, , 85-126.		0