Suat Ozbek

List of Publications by Year in descending order

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41 papers	3,425 citations	186265 28 h-index	276875 41 g-index
44 all docs	44 docs citations	44 times ranked	3279 citing authors

#	Article	IF	Citations
1	The Wnt-specific astacin proteinase HAS-7 restricts head organizer formation in Hydra. BMC Biology, 2021, 19, 120.	3.8	9
2	A small molecule screen identifies novel inhibitors of mechanosensory nematocyst discharge in Hydra. Scientific Reports, 2021, 11, 20627.	3.3	4
3	Emergence of a Thrombospondin Superfamily at the Origin of Metazoans. Molecular Biology and Evolution, 2019, 36, 1220-1238.	8.9	5
4	New Class of Crosslinker-Free Nanofiber Biomaterials from Hydra Nematocyst Proteins. Scientific Reports, 2019, 9, 19116.	3.3	8
5	Extracellular matrix and morphogenesis in cnidarians: a tightly knit relationship. Essays in Biochemistry, 2019, 63, 407-416.	4.7	6
6	Hydra Mesoglea Proteome Identifies Thrombospondin as a Conserved Component Active in Head Organizer Restriction. Scientific Reports, 2018, 8, 11753.	3.3	30
7	Wnt/PCP controls spreading of Wnt/Î²-catenin signals by cytonemes in vertebrates. ELife, 2018, 7, .	6.0	106
8	Microbial arms race: Ballistic â€œnematocystsâ€•in dinoflagellates represent a new extreme in organelle complexity. Science Advances, 2017, 3, e1602552.	10.3	36
9	Secreted Frizzled-related Protein 2 (sFRP2) Redirects Non-canonical Wnt Signaling from Fz7 to Ror2 during Vertebrate Gastrulation. Journal of Biological Chemistry, 2016, 291, 13730-13742.	3.4	23
10	Minicollagen cysteine-rich domains encode distinct modes of polymerization to form stable nematocyst capsules. Scientific Reports, 2016, 6, 25709.	3.3	18
11	A Comprehensive Transcriptomic and Proteomic Analysis of Hydra Head Regeneration. Molecular Biology and Evolution, 2015, 32, 1928-1947.	8.9	106
12	The Rise and Fall of TRP-N, an Ancient Family of Mechanogated Ion Channels, in Metazoa. Genome Biology and Evolution, 2015, 7, 1713-1727.	2.5	36
13	A fast recoiling silk-like elastomer facilitates nanosecond nematocyst discharge. BMC Biology, 2015, 13, 3.	3.8	34
14	Molecular dissection of Wnt3a-Frizzled8 interaction reveals essential and modulatory determinants of Wnt signaling activity. BMC Biology, 2014, 12, 44.	3.8	24
15	Nodal signalling determines biradial asymmetry in Hydra. Nature, 2014, 515, 112-115.	27.8	100
16	Neurotoxin localization to ectodermal gland cells uncovers an alternative mechanism of venom delivery in sea anemones. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1351-1358.	2.6	90
17	The Nematocyst: a molecular map of the Cnidarian stinging organelle. International Journal of Developmental Biology, 2012, 56, 577-582.	0.6	97
18	Proteome of Hydra Nematocyst. Journal of Biological Chemistry, 2012, 287, 9672-9681.	3.4	95

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19	Signaling Pathways and Axis Formation in the Lower Metazoa. Current Topics in Developmental Biology, 2011, 97, 137-177.	2.2	34
20	Morphological and Molecular Analysis of the Nematostella vectensis Cnidom. PLoS ONE, 2011, 6, e22725.	2.5	86
21	In vivo imaging of basement membrane movement: ECM patterning shapesHydrapolyps. Journal of Cell Science, 2011, 124, 4027-4038.	2.0	45
22	The cnidarian nematocyst: a miniature extracellular matrix within a secretory vesicle. Protoplasma, 2011, 248, 635-640.	2.1	40
23	Autoregulatory and repressive inputs localize Hydra Wnt3 to the head organizer. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9137-9142.	7.1	112
24	The dynamic genome of Hydra. Nature, 2010, 464, 592-596.	27.8	743
25	The Evolution of Extracellular Matrix. Molecular Biology of the Cell, 2010, 21, 4300-4305.	2.1	296
26	Cnidocyst structure and the biomechanics of discharge. Toxicon, 2009, 54, 1038-1045.	1.6	100
27	Multiple Wnts are involved in Hydra organizer formation and regeneration. Developmental Biology, 2009, 330, 186-199.	2.0	277
28	Wnt/Î²-Catenin and noncanonical Wnt signaling interact in tissue evagination in the simple eumetazoan Hydra. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4290-4295.	7.1	129
29	Evolution of complex structures: minicollagens shape the cnidarian nematocyst. Trends in Genetics, 2008, 24, 431-438.	6.7	117
30	Minicollagen-15, a Novel Minicollagen Isolated from Hydra, Forms Tubule Structures in Nematocysts. Journal of Molecular Biology, 2008, 376, 1008-1020.	4.2	38
31	Sequenceâ€“Structure and Structureâ€“Function Analysis in Cysteine-rich Domains Forming the Ultrastable Nematocyst Wall. Journal of Molecular Biology, 2007, 368, 718-728.	4.2	27
32	Continuous Molecular Evolution of Protein-Domain Structures by Single Amino Acid Changes. Current Biology, 2007, 17, 173-178.	3.9	56
33	Nanosecond-scale kinetics of nematocyst discharge. Current Biology, 2006, 16, R316-R318.	3.9	156
34	Favourable mediation of crystal contacts by cocoamidopropylbetaine (CAPB). Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 477-480.	2.5	13
35	The Structure of the Cys-rich Terminal Domain of Hydra Minicollagen, Which Is Involved in Disulfide Networks of the Nematocyst Wall. Journal of Biological Chemistry, 2004, 279, 30395-30401.	3.4	28
36	The Glycoprotein NOWA and Minicollagens Are Part of a Disulfidelinked Polymer That Forms the Cnidarian Nematocyst Wall. Journal of Biological Chemistry, 2004, 279, 52016-52023.	3.4	35

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37	Characterisation of Drosophila Thrombospondin Defines an Early Origin of Pentameric Thrombospondins. Journal of Molecular Biology, 2003, 328, 479-494.	4.2	60
38	Structure/Function Relationships in the Minicollagen ofHydra Nematocysts. Journal of Biological Chemistry, 2002, 277, 49200-49204.	3.4	34
39	Nowa, a novel protein with minicollagen Cys-rich domains, is involved in nematocyst formation in Hydra. Journal of Cell Science, 2002, 115, 3923-3934.	2.0	83
40	A Switch in Disulfide Linkage during Minicollagen Assembly in Hydra Nematocysts or How to Assemble a 150-Bar-Resistant Structure. Journal of Structural Biology, 2002, 137, 11-14.	2.8	25
41	Storage function of cartilage oligomeric matrix protein: the crystal structure of the coiled-coil domain in complex with vitamin D3. EMBO Journal, 2002, 21, 5960-5968.	7.8	59