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 dynamic genome of Hydra. Nature, 2010, 464, 592-596.	27.8	743
2	The Evolution of Extracellular Matrix. Molecular Biology of the Cell, 2010, 21, 4300-4305.	2.1	296
3	Multiple Wnts are involved in Hydra organizer formation and regeneration. Developmental Biology, 2009, 330, 186-199.	2.0	277
4	Nanosecond-scale kinetics of nematocyst discharge. Current Biology, 2006, 16, R316-R318.	3.9	156
5	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
6	Evolution of complex structures: minicollagens shape the cnidarian nematocyst. Trends in Genetics, 2008, 24, 431-438.	6.7	117
7	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
8	A Comprehensive Transcriptomic and Proteomic Analysis of Hydra Head Regeneration. Molecular Biology and Evolution, 2015, 32, 1928-1947.	8.9	106
9	Wnt/PCP controls spreading of Wnt/Î²-catenin signals by cytonemes in vertebrates. ELife, 2018, 7, .	6.0	106
10	Cnidocyst structure and the biomechanics of discharge. Toxicon, 2009, 54, 1038-1045.	1.6	100
11	Nodal signalling determines biradial asymmetry in Hydra. Nature, 2014, 515, 112-115.	27.8	100
12	The Nematocyst: a molecular map of the Cnidarian stinging organelle. International Journal of Developmental Biology, 2012, 56, 577-582.	0.6	97
13	Proteome of Hydra Nematocyst. Journal of Biological Chemistry, 2012, 287, 9672-9681.	3.4	95
14	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
15	Morphological and Molecular Analysis of the Nematostella vectensis Cnidom. PLoS ONE, 2011, 6, e22725.	2.5	86
16	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
17	Characterisation of Drosophila Thrombospondin Defines an Early Origin of Pentameric Thrombospondins. Journal of Molecular Biology, 2003, 328, 479-494.	4.2	60
18	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

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19	Continuous Molecular Evolution of Protein-Domain Structures by Single Amino Acid Changes. Current Biology, 2007, 17, 173-178.	3.9	56
20	In vivo imaging of basement membrane movement: ECM patterning shapesHydrapolyps. Journal of Cell Science, 2011, 124, 4027-4038.	2.0	45
21	The cnidarian nematocyst: a miniature extracellular matrix within a secretory vesicle. Protoplasma, 2011, 248, 635-640.	2.1	40
22	Minicollagen-15, a Novel Minicollagen Isolated from Hydra, Forms Tubule Structures in Nematocysts. Journal of Molecular Biology, 2008, 376, 1008-1020.	4.2	38
23	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
24	Microbial arms race: Ballistic â€œnematocystsâ€•in dinoflagellates represent a new extreme in organelle complexity. Science Advances, 2017, 3, e1602552.	10.3	36
25	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
26	Structure/Function Relationships in the Minicollagen ofHydra Nematocysts. Journal of Biological Chemistry, 2002, 277, 49200-49204.	3.4	34
27	Signaling Pathways and Axis Formation in the Lower Metazoa. Current Topics in Developmental Biology, 2011, 97, 137-177.	2.2	34
28	A fast recoiling silk-like elastomer facilitates nanosecond nematocyst discharge. BMC Biology, 2015, 13, 3.	3.8	34
29	Hydra Mesoglea Proteome Identifies Thrombospondin as a Conserved Component Active in Head Organizer Restriction. Scientific Reports, 2018, 8, 11753.	3.3	30
30	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
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	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
33	Molecular dissection of Wnt3a-Frizzled8 interaction reveals essential and modulatory determinants of Wnt signaling activity. BMC Biology, 2014, 12, 44.	3.8	24
34	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
35	Minicollagen cysteine-rich domains encode distinct modes of polymerization to form stable nematocyst capsules. Scientific Reports, 2016, 6, 25709.	3.3	18
36	Favourable mediation of crystal contacts by cocoamidopropylbetaine (CAPB). Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 477-480.	2.5	13

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37	The Wnt-specific astacin proteinase HAS-7 restricts head organizer formation in Hydra. BMC Biology, 2021, 19, 120.	3.8	9
38	New Class of Crosslinker-Free Nanofiber Biomaterials from Hydra Nematocyst Proteins. Scientific Reports, 2019, 9, 19116.	3.3	8
39	Extracellular matrix and morphogenesis in cnidarians: a tightly knit relationship. Essays in Biochemistry, 2019, 63, 407-416.	4.7	6
40	Emergence of a Thrombospondin Superfamily at the Origin of Metazoans. Molecular Biology and Evolution, 2019, 36, 1220-1238.	8.9	5
41	A small molecule screen identifies novel inhibitors of mechanosensory nematocyst discharge in Hydra. Scientific Reports, 2021, 11, 20627.	3.3	4