Nadia A Ayoub

List of Publications by Year in Descending Order

39 papers	2,604 citations	20 h-index	42 g-index
42 ext. papers	3,107 ext. citations	5.9 avg, IF	4.6 L-index

#	Paper	IF	Citations
39	Protein Composition and Associated Material Properties of Cobweb SpidersaGumfoot Glue Droplets. *Integrative and Comparative Biology*, **2021**, 61, 1459-1480	2.8	3
38	Gene expression profiling reveals candidate genes for defining spider silk gland types. *Insect Biochemistry and Molecular Biology*, **2021**, 135, 103594	4.5	2
37	Gene content evolution in the arthropods. *Genome Biology*, **2020**, 21, 15	18.3	63
36	Locomotor activity patterns in three spider species suggest relaxed selection on endogenous circadian period and novel features of chronotype. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2020**, 206, 499-515	2.3	1
35	The common house spider, Parasteatoda tepidariorum, maintains silk gene expression on sub-optimal diet. *PLoS ONE*, **2020**, 15, e0237286	3.7	2
34	The common house spider, Parasteatoda tepidariorum, maintains silk gene expression on sub-optimal diet **2020**, 15, e0237286		
33	The common house spider, Parasteatoda tepidariorum, maintains silk gene expression on sub-optimal diet **2020**, 15, e0237286		
32	The common house spider, Parasteatoda tepidariorum, maintains silk gene expression on sub-optimal diet **2020**, 15, e0237286		
31	The common house spider, Parasteatoda tepidariorum, maintains silk gene expression on sub-optimal diet **2020**, 15, e0237286		
30	Genomic perspectives of spider silk genes through target capture sequencing: Conservation of stabilization mechanisms and homology-based structural models of spidroin terminal regions. *International Journal of Biological Macromolecules*, **2018**, 113, 829-840	7.9	31
29	Recent progress and prospects for advancing arachnid genomics. *Current Opinion in Insect Science*, **2018**, 25, 51-57	5.1	21
28	Silk gene expression of theridiid spiders: implications for male-specific silk use. *Zoology*, **2017**, 122, 107-114	1.7	18
27	Duplication and concerted evolution of MiSp-encoding genes underlie the material properties of minor ampullate silks of cobweb weaving spiders. *BMC Evolutionary Biology*, **2017**, 17, 78	3	20
26	The house spider genome reveals an ancient whole-genome duplication during arachnid evolution. *BMC Biology*, **2017**, 15, 62	7.3	182
25	Evolutionary shifts in gene expression decoupled from gene duplication across functionally distinct spider silk glands. *Scientific Reports*, **2017**, 7, 8393	4.9	18
24	Effects of Gene Duplication, Positive Selection, and Shifts in Gene Expression on the Evolution of the Venom Gland Transcriptome in Widow Spiders. *Genome Biology and Evolution*, **2016**, 8, 228-42	3.9	26
23	Evidence from Multiple Species that Spider Silk Glue Component ASG2 is a Spidroin. *Scientific Reports*, **2016**, 6, 21589	4.9	37

22	Spider Transcriptomes Identify Ancient Large-Scale Gene Duplication Event Potentially Important in Silk Gland Evolution. *Genome Biology and Evolution*, **2015**, 7, 1856-70	3.9	64
21	Proteomic Evidence for Components of Spider Silk Synthesis from Black Widow Silk Glands and Fibers. *Journal of Proteome Research*, **2015**, 14, 4223-31	5.6	37
20	Intragenic homogenization and multiple copies of prey-wrapping silk genes in Argiope garden spiders. *BMC Evolutionary Biology*, **2014**, 14, 31	3	36
19	Gene structure, regulatory control, and evolution of black widow venom latrotoxins. *FEBS Letters*, **2014**, 588, 3891-7	3.8	13
18	Dramatic expansion of the black widow toxin arsenal uncovered by multi-tissue transcriptomics and venom proteomics. *BMC Genomics*, **2014**, 15, 366	4.5	58
17	Multi-tissue transcriptomics of the black widow spider reveals expansions, co-options, and functional processes of the silk gland gene toolkit. *BMC Genomics*, **2014**, 15, 365	4.5	56
16	Complex gene expression in the dragline silk producing glands of the Western black widow (Latrodectus hesperus). *BMC Genomics*, **2013**, 14, 846	4.5	23
15	Hemocyanin gene family evolution in spiders (Araneae), with implications for phylogenetic relationships and divergence times in the infraorder Mygalomorphae. *Gene*, **2013**, 524, 175-86	3.8	12
14	Ancient properties of spider silks revealed by the complete gene sequence of the prey-wrapping silk protein (AcSp1). *Molecular Biology and Evolution*, **2013**, 30, 589-601	8.3	62
13	Impacts of the Cretaceous Terrestrial Revolution and KPg extinction on mammal diversification. *Science*, **2011**, 334, 521-4	33.3	1024
12	Silk gene transcripts in the developing tubuliform glands of the Western black widow, Latrodectus hesperus. *Journal of Arachnology*, **2010**, 38, 99-103	1.1	20
11	Untangling spider silk evolution with spidroin terminal domains. *BMC Evolutionary Biology*, **2010**, 10, 243	3	116
10	Chromosome mapping of dragline silk genes in the genomes of widow spiders (Araneae, Theridiidae). *PLoS ONE*, **2010**, 5, e12804	3.7	15
9	Evolution and phylogenetic utility of the melanocortin-1 receptor gene (MC1R) in Cetartiodactyla. *Molecular Phylogenetics and Evolution*, **2009**, 52, 550-7	4.1	17
8	Multiple recombining loci encode MaSp1, the primary constituent of dragline silk, in widow spiders (Latrodectus: Theridiidae). *Molecular Biology and Evolution*, **2008**, 25, 277-86	8.3	51
7	Insight into the routes of Wolbachia invasion: high levels of horizontal transfer in the spider genus Agelenopsis revealed by Wolbachia strain and mitochondrial DNA diversity. *Molecular Ecology*, **2008** , 17, 557-69	5.7	136
6	Blueprint for a high-performance biomaterial: full-length spider dragline silk genes. *PLoS ONE*, **2007** , 2, e514	3.7	285
5	Utility of the nuclear protein-coding gene, elongation factor-1 gamma (EF-1gamma), for spider systematics, emphasizing family level relationships of tarantulas and their kin (Araneae: Mygalomorphae). *Molecular Phylogenetics and Evolution*, **2007**, 42, 394-409	4.1	68

4	Speciation history of the North American funnel web spiders, Agelenopsis (Araneae: Agelenidae): phylogenetic inferences at the population-species interface. *Molecular Phylogenetics and Evolution*, **2005**, 36, 42-57	4.1	20
3	Molecular evidence for Pleistocene glacial cycles driving diversification of a North American desert spider, Agelenopsis aperta. *Molecular Ecology*, **2004**, 13, 3453-65	5.7	57
2	The house spider genome reveals an ancient whole-genome duplication during arachnid evolution		3
1	Gene Content Evolution in the Arthropods		7