Andrew A Walker

List of Publications by Year
in descending order

34 papers	792 citations	516561 16 h-index	526166 27 g-index
34 all docs	34 docs citations	34 times ranked	803 citing authors

#	Article	IF	Citations
1	The assassin bug Pristhesancus plagipennis produces two distinct venoms in separate gland lumens. Nature Communications, 2018, 9, 755.	5.8	67
2	Entomo-venomics: The evolution, biology and biochemistry of insect venoms. Toxicon, 2018, 154, 15-27.	0.8	67
3	The coiled coil silk of bees, ants, and hornets. Biopolymers, 2012, 97, 446-454.	1.2	63
4	Venoms of Heteropteran Insects: A Treasure Trove of Diverse Pharmacological Toolkits. Toxins, 2016, 8, 43.	1.5	62
5	Melt With This Kiss: Paralyzing and Liquefying Venom of The Assassin Bug Pristhesancus plagipennis (Hemiptera: Reduviidae). Molecular and Cellular Proteomics, 2017, 16, 552-566.	2.5	53
6	More than one way to spin a crystallite: multiple trajectories through liquid crystallinity to solid silk. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20150259.	1.2	43
7	A New Isoform of Interleukin-3 Receptor Î± with Novel Differentiation Activity and High Affinity Binding Mode. Journal of Biological Chemistry, 2009, 284, 5763-5773.	1.6	34
8	Giant fish-killing water bug reveals ancient and dynamic venom evolution in Heteroptera. Cellular and Molecular Life Sciences, 2018, 75, 3215-3229.	2.4	31
9	Micellar refolding of coiled-coil honeybee silk proteins. Journal of Materials Chemistry B, 2013, 1, 3644.	2.9	28
10	Varespladib (LY315920) neutralises phospholipase A2 mediated prothrombinase-inhibition induced by Bitis snake venoms. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2020, 236, 108818.	1.3	28
11	Deadly Proteomes: A Practical Guide to Proteotranscriptomics of Animal Venoms. Proteomics, 2020, 20, e1900324.	1.3	26
12	A new class of animal collagen masquerading as an insect silk. Scientific Reports, 2013, 3, 2864.	1.6	25
13	Silk from Crickets: A New Twist on Spinning. PLoS ONE, 2012, 7, e30408.	1.1	23
14	Convergently-evolved structural anomalies in the coiled coil domains of insect silk proteins. Journal of Structural Biology, 2014, 186, 402-411.	1.3	22
15	The Ig-like domain of human GM-CSF receptor Î± plays a critical role in cytokine binding and receptor activation. Biochemical Journal, 2010, 426, 307-317.	1.7	19
16	The evolutionary dynamics of venom toxins made by insects and other animals. Biochemical Society Transactions, 2020, 48, 1353-1365.	1.6	18
17	Natural Templates for Coiled-Coil Biomaterials from Praying Mantis Egg Cases. Biomacromolecules, 2012, 13, 4264-4272.	2.6	17
18	Production, composition, and mode of action of the painful defensive venom produced by a limacodid caterpillar, Doratifera vulnerans. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	17

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19	The other prey-capture silk: Fibres made by glow-worms (Diptera: Keroplatidae) comprise cross-Î²-sheet crystallites in an abundant amorphous fraction. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2015, 187, 78-84.	0.7	16
20	Missiles of Mass Disruption: Composition and Glandular Origin of Venom Used as a Projectile Defensive Weapon by the Assassin Bug Platymeris rhadamanthus. Toxins, 2019, 11, 673.	1.5	16
21	Two for the Price of One: Heterobivalent Ligand Design Targeting Two Binding Sites on Voltage-Gated Sodium Channels Slows Ligand Dissociation and Enhances Potency. Journal of Medicinal Chemistry, 2020, 63, 12773-12785.	2.9	15
22	Venom Peptides with Dual Modulatory Activity on the Voltage-Gated Sodium Channel Na_V1.1 Provide Novel Leads for Development of Antiepileptic Drugs. ACS Pharmacology and Translational Science, 2020, 3, 119-134.	2.5	14
23	Buzz Kill: Function and Proteomic Composition of Venom from the Giant Assassin Fly Dolopus genitalis (Diptera: Asilidae). Toxins, 2018, 10, 456.	1.5	12
24	Silverfish silk is formed by entanglement of randomly coiled protein chains. Insect Biochemistry and Molecular Biology, 2013, 43, 572-579.	1.2	11
25	Harvesting Venom Toxins from Assassin Bugs and Other Heteropteran Insects. Journal of Visualized Experiments, 2018, , .	0.2	10
26	Weaponisation â€˜on the flyâ€™: Convergent recruitment of knottin and defensin peptide scaffolds into the venom of predatory assassin flies. Insect Biochemistry and Molecular Biology, 2020, 118, 103310.	1.2	10
27	Multipurpose peptides: The venoms of Amazonian stinging ants contain anthelmintic ponericins with diverse predatory and defensive activities. Biochemical Pharmacology, 2021, 192, 114693.	2.0	10
28	Venom composition of the endoparasitoid wasp Cotesia flavipes (Hymenoptera: Braconidae) and functional characterization of a major venom peptide. Toxicon, 2021, 202, 1-12.	0.8	9
29	A pain-causing and paralytic ant venom glycopeptide. IScience, 2021, 24, 103175.	1.9	7
30	Proteotranscriptomics reveals the secretory dynamics of teratocytes, regulators of parasitization by an endoparasitoid wasp. Journal of Insect Physiology, 2022, 139, 104395.	0.9	6
31	Crouching Tiger, Hidden Protein: Searching for Insecticidal Toxins in Venom of the Red Tiger Assassin Bug (Havinthus rufovarius). Toxins, 2021, 13, 3.	1.5	5
32	A comparison of convergently evolved insect silks that share Î²â€sheet molecular structure. Biopolymers, 2014, 101, 630-639.	1.2	4
33	Evolution and Application of Coiled Coil Silks from Insects. Biologically-inspired Systems, 2014, , 87-106.	0.4	3
34	Discovery and characterisation of novel peptides from Amazonian stinging ant venoms with antiparasitic activity. Toxicon, 2020, 177, S60.	0.8	1