Qing Meng

List of Publications by Year
in descending order

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Version: 2024-02-01

41	1,186	471371 17	395590 33
papers	citations	h-index	g-index

44	44	44	871
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biomimetic spinning of artificial spider silk from a chimeric minispidroin. Nature Chemical Biology, 2017, 13, 262-264.	3.9	231
2	Carbonic Anhydrase Generates CO2 and H+ That Drive Spider Silk Formation Via Opposite Effects on the Terminal Domains. PLoS Biology, 2014, 12, e1001921.	2.6	154
3	Sequential pH-driven dimerization and stabilization of the N-terminal domain enables rapid spider silk formation. Nature Communications, 2014, 5, 3254.	5.8	134
4	Full-Length Minor Ampullate Spidroin Gene Sequence. PLoS ONE, 2012, 7, e52293.	1.1	71
5	Recombinant Minimalist Spider Wrapping Silk Proteins Capable of Native-Like Fiber Formation. PLoS ONE, 2012, 7, e50227.	1.1	59
6	Spider wrapping silk fibre architecture arising from its modular soluble protein precursor. Scientific Reports, 2015, 5, 11502.	1.6	39
7	Diversified Structural Basis of a Conserved Molecular Mechanism for pHâ€Dependent Dimerization in Spider Silk Nâ€Terminal Domains. ChemBioChem, 2015, 16, 1720-1724.	1.3	38
8	PKA-mediated Gli2 and Gli3 phosphorylation is inhibited by Hedgehog signaling in cilia and reduced in Talpid3 mutant. Developmental Biology, 2017, 429, 147-157.	0.9	28
9	Production and Properties of Triple Chimeric Spidroins. Biomacromolecules, 2018, 19, 2825-2833.	2.6	28
10	Tensile properties of synthetic pyriform spider silk fibers depend on the number of repetitive units as well as the presence of N- and C-terminal domains. International Journal of Biological Macromolecules, 2020, 154, 765-772.	3.6	28
11	Degree of Biomimicry of Artificial Spider Silk Spinning Assessed by NMR Spectroscopy. Angewandte Chemie - International Edition, 2017, 56, 12571-12575.	7.2	25
12	Molecular cloning and analysis of the full-length aciniform spidroin gene from Araneus ventricosus. International Journal of Biological Macromolecules, 2018, 117, 1352-1360.	3.6	23
13	Mass spectrometry captures structural intermediates in protein fiber self-assembly. Chemical Communications, 2017, 53, 3319-3322.	2.2	22
14	Characterization of full-length tubuliform spidroin gene from Araneus ventricosus. International Journal of Biological Macromolecules, 2017, 105, 702-710.	3.6	22
15	Rab34 small GTPase is required for Hedgehog signaling and an early step of ciliary vesicle formation in the mouse. Journal of Cell Science, 2018, 131, .	1.2	21
16	Analysis of the Full-Length Pyriform Spidroin Gene Sequence. Genes, 2019, 10, 425.	1.0	21
17	Three Tctn proteins are functionally conserved in the regulation of neural tube patterning and Gli3 processing but not ciliogenesis and Hedgehog signaling in the mouse. Developmental Biology, 2017, 430, 156-165.	0.9	19
18	Evaluation of the potential of chimeric spidroins/poly(L-lactic-co-Îµ-caprolactone) (PLCL) nanofibrous scaffolds for tissue engineering. Materials Science and Engineering C, 2020, 111, 110752.	3.8	19

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19	The correlation between the length of repetitive domain and mechanical properties of the recombinant flagelliform spidroin. Biology Open, 2017, 6, 333-339.	0.6	17
20	Structural and Mechanical Roles for the C-Terminal Nonrepetitive Domain Become Apparent in Recombinant Spider Aciniform Silk. Biomacromolecules, 2017, 18, 3678-3686.	2.6	17
21	Chimeric spider silk proteins mediated by intein result in artificial hybrid silks. Biopolymers, 2016, 105, 385-392.	1.2	14
22	The molecular structure of novel pyriform spidroin (PySp2) reveals extremely complex central repetitive region. International Journal of Biological Macromolecules, 2020, 145, 437-444.	3.6	14
23	Structural characterization and mechanical properties of chimeric Masp1/Flag minispidroins. Biochimie, 2020, 168, 251-258.	1.3	14
24	Characterization of the second type of aciniform spidroin (AcSp2) provides new insight into design for spidroin-based biomaterials. Acta Biomaterialia, 2020, 115, 210-219.	4.1	12
25	The three novel complete aciniform spidroin variants from Araneus ventricosus reveal diversity of gene sequences within specific spidroin type. International Journal of Biological Macromolecules, 2020, 157, 60-66.	3.6	12
26	Tough synthetic spider-silk fibers obtained by titanium dioxide incorporation and formaldehyde cross-linking in a simple wet-spinning process. Biochimie, 2020, 175, 77-84.	1.3	12
27	Novel Highly Soluble Chimeric Recombinant Spidroins with High Yield. International Journal of Molecular Sciences, 2020, 21, 6905.	1.8	11
28	Enterohemorrhagic E. coli effector NleL disrupts host NF-Î²B signaling by targeting multiple host proteins. Journal of Molecular Cell Biology, 2020, 12, 318-321.	1.5	11
29	Customized Flagelliform Spidroins Form Spider Silk-like Fibers at pH 8.0 with Outstanding Tensile Strength. ACS Biomaterials Science and Engineering, 2022, 8, 119-127.	2.6	11
30	Wet-Spinning Synthetic Fibers from Aggregate Glue: Aggregate Spidroin 1 (AgSp1). ACS Applied Bio Materials, 2020, 3, 5957-5965.	2.3	10
31	Two novel tubuliform silk gene sequences from Araneus ventricosus provide evidence for multiple loci in genome. International Journal of Biological Macromolecules, 2020, 160, 806-813.	3.6	9
32	Rare Group I Intron with Insertion Sequence Element in a Bacterial Ribonucleotide Reductase Gene. Journal of Bacteriology, 2007, 189, 2150-2154.	1.0	8
33	Site specific labeling of two proteins in one system by atypical split inteins. International Journal of Biological Macromolecules, 2018, 109, 921-931.	3.6	6
34	C-Terminal Domains of Spider Silk Proteins Having Divergent Structures but Conserved Functional Roles. Biomacromolecules, 2022, 23, 1643-1651.	2.6	6
35	Engineered Ssp DnaX inteins for protein splicing with flanking proline residues. Saudi Journal of Biological Sciences, 2019, 26, 854-859.	1.8	5
36	Expression and characterization of chimeric spidroins from flagelliformâ€•aciniform repetitive modules. Biopolymers, 2020, 111, e23404.	1.2	5

#	Article	IF	Citations
37	The novel aciniform silk protein (AcSp2-v2) reveals the unique repetitive domain with high acid and thermal stability and self-assembly capability. International Journal of Biological Macromolecules, 2022, 202, 91-101.	3.6	4
38	Properties of two spliceoforms of major ampullate spidroin 1 reveal unique functions of N-linker region. International Journal of Biological Macromolecules, 2020, 157, 67-74.	3.6	3
39	Characteristics of electrospun membranes in different spidroin/PCL ratios. Biomedical Materials (Bristol), 2021, 16, 065022.	1.7	3
40	Protein Trans-splicing Activities of Multiple Split Inteins Derived from Ssp GyrB Intein. , 2012, , .		0
41	A Dual Cleavage System for Protein Purification Based on Small Ubiquitin-Like Modifier and a Split Intein. Journal of Computational and Theoretical Nanoscience, 2016, 13, 8896-8901.	0.4	0