

Anna Rising

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

2,655
citations

26
h-index

51
g-index

77
ext. papers

3,201
ext. citations

7.6
avg. IF

5.19
L-index

#	Paper	IF	Citations
70	Self-assembly of spider silk proteins is controlled by a pH-sensitive relay. <i>Nature</i> , 2010 , 465, 236-8	50.4	328
69	Toward spinning artificial spider silk. <i>Nature Chemical Biology</i> , 2015 , 11, 309-15	11.7	210
68	Spider silk proteins: recent advances in recombinant production, structure-function relationships and biomedical applications. <i>Cellular and Molecular Life Sciences</i> , 2011 , 68, 169-84	10.3	144
67	Macroscopic fibers self-assembled from recombinant miniature spider silk proteins. <i>Biomacromolecules</i> , 2007 , 8, 1695-701	6.9	144
66	Biomimetic spinning of artificial spider silk from a chimeric minispidroin. <i>Nature Chemical Biology</i> , 2017 , 13, 262-264	11.7	143
65	Spider silk proteins--mechanical property and gene sequence. <i>Zoological Science</i> , 2005 , 22, 273-81	0.8	124
64	N-terminal nonrepetitive domain common to dragline, flagelliform, and cylindrical spider silk proteins. <i>Biomacromolecules</i> , 2006 , 7, 3120-4	6.9	122
63	Structural properties of recombinant nonrepetitive and repetitive parts of major ampullate spidroin 1 from <i>Euprosthenoops australis</i> : implications for fiber formation. <i>Biochemistry</i> , 2008 , 47, 3407-17 ²	13.2	113
62	Carbonic anhydrase generates CO ₂ and H ⁺ that drive spider silk formation via opposite effects on the terminal domains. <i>PLoS Biology</i> , 2014 , 12, e1001921	9.7	109
61	Sequential pH-driven dimerization and stabilization of the N-terminal domain enables rapid spider silk formation. <i>Nature Communications</i> , 2014 , 5, 3254	17.4	96
60	Recombinant spider silk as matrices for cell culture. <i>Biomaterials</i> , 2010 , 31, 9575-85	15.6	89
59	Silk Spinning in Silkworms and Spiders. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	78
58	Tissue Response to Subcutaneously Implanted Recombinant Spider Silk: An in Vivo Study. <i>Materials</i> , 2009 , 2, 1908-1922	3.5	65
57	Invited review current progress and limitations of spider silk for biomedical applications. <i>Biopolymers</i> , 2012 , 97, 468-78	2.2	64
56	pH-dependent dimerization of spider silk N-terminal domain requires relocation of a wedged tryptophan side chain. <i>Journal of Molecular Biology</i> , 2012 , 422, 477-87	6.5	61
55	Full-length minor ampullate spidroin gene sequence. <i>PLoS ONE</i> , 2012 , 7, e52293	3.7	58
54	Recombinant spider silk matrices for neural stem cell cultures. <i>Biomaterials</i> , 2012 , 33, 7712-7	15.6	55

53	Efficient protein production inspired by how spiders make silk. <i>Nature Communications</i> , 2017 , 8, 15504	17.4	48
52	A pH-dependent dimer lock in spider silk protein. <i>Journal of Molecular Biology</i> , 2010 , 404, 328-36	6.5	47
51	Recombinant spider silk genetically functionalized with affinity domains. <i>Biomacromolecules</i> , 2014 , 15, 1696-706	6.9	45
50	Major ampullate spidroins from <i>Euprostheno australis</i> : multiplicity at protein, mRNA and gene levels. <i>Insect Molecular Biology</i> , 2007 , 16, 551-61	3.4	39
49	Morphology and composition of the spider major ampullate gland and dragline silk. <i>Biomacromolecules</i> , 2013 , 14, 2945-52	6.9	37
48	Spider silk for xeno-free long-term self-renewal and differentiation of human pluripotent stem cells. <i>Biomaterials</i> , 2014 , 35, 8496-502	15.6	34
47	Carbonic anhydrase generates a pH gradient in <i>Bombyx mori</i> silk glands. <i>Insect Biochemistry and Molecular Biology</i> , 2015 , 65, 100-6	4.5	30
46	Diversified Structural Basis of a Conserved Molecular Mechanism for pH-Dependent Dimerization in Spider Silk N-Terminal Domains. <i>ChemBioChem</i> , 2015 , 16, 1720-4	3.8	29
45	Specific chaperones and regulatory domains in control of amyloid formation. <i>Journal of Biological Chemistry</i> , 2015 , 290, 26430-6	5.4	27
44	Controlled assembly: a prerequisite for the use of recombinant spider silk in regenerative medicine?. <i>Acta Biomaterialia</i> , 2014 , 10, 1627-31	10.8	24
43	A spidroin-derived solubility tag enables controlled aggregation of a designed amyloid protein. <i>FEBS Journal</i> , 2018 , 285, 1873-1885	5.7	22
42	Functionalisation of recombinant spider silk with conjugated polyelectrolytes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2909		18
41	Novel expression of a functional trimeric fragment of human SP-A with efficacy in neutralisation of RSV. <i>Immunobiology</i> , 2017 , 222, 111-118	3.4	16
40	Structure-Function Relationship of Artificial Spider Silk Fibers Produced by Straining Flow Spinning. <i>Biomacromolecules</i> , 2020 , 21, 2116-2124	6.9	16
39	High-yield Production of Amyloid- β Peptide Enabled by a Customized Spider Silk Domain. <i>Scientific Reports</i> , 2020 , 10, 235	4.9	16
38	Mass Spectrometry Reveals the Direct Action of a Chemical Chaperone. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4082-4086	6.4	16
37	Transmissible amyloid. <i>Journal of Internal Medicine</i> , 2016 , 280, 153-63	10.8	16
36	Doing What Spiders Cannot-A Road Map to Supreme Artificial Silk Fibers. <i>ACS Nano</i> , 2021 , 15, 1952-1959	16.7	16

35	Degree of Biomimicry of Artificial Spider Silk Spinning Assessed by NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12571-12575	16.4	15
34	Production and Properties of Triple Chimeric Spidroins. <i>Biomacromolecules</i> , 2018 , 19, 2825-2833	6.9	14
33	Control of amyloid assembly by autoregulation. <i>Biochemical Journal</i> , 2012 , 447, 185-92	3.8	13
32	Mass spectrometry captures structural intermediates in protein fiber self-assembly. <i>Chemical Communications</i> , 2017 , 53, 3319-3322	5.8	12
31	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. <i>International Journal of Biological Macromolecules</i> , 2020 , 154, 765-772	7.9	11
30	Synthetic surfactant with a recombinant surfactant protein C analogue improves lung function and attenuates inflammation in a model of acute respiratory distress syndrome in adult rabbits. <i>Respiratory Research</i> , 2019 , 20, 245	7.3	10
29	Properties of Biomimetic Artificial Spider Silk Fibers Tuned by PostSpin Bath Incubation. <i>Molecules</i> , 2020 , 25,	4.8	8
28	Natural Derived Surfactant Preparation As a Carrier of Polymyxin E for Treatment of Pseudomonas aeruginosa Pneumonia in a Near-Term Rabbit Model. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2019 , 32, 110-118	3.8	8
27	Efficient passage of human pluripotent stem cells on spider silk matrices under xeno-free conditions. <i>Cellular and Molecular Life Sciences</i> , 2016 , 73, 1479-88	10.3	6
26	Evaluation of Functionalized Spider Silk Matrices: Choice of Cell Types and Controls are Important for Detecting Specific Effects. <i>Frontiers in Bioengineering and Biotechnology</i> , 2014 , 2, 50	5.8	6
25	Tyrosine residues mediate supercontraction in biomimetic spider silk. <i>Communications Materials</i> , 2021 , 2,	6	6
24	Impact of synthetic surfactant CHF5633 with SP-B and SP-C analogues on lung function and inflammation in rabbit model of acute respiratory distress syndrome. <i>Physiological Reports</i> , 2021 , 9, e14700	7.6	6
23	Transient Expression of a Major Ampullate Spidroin 1 Gene Fragment from sp. in Mammalian Cells. <i>Cancer Genomics and Proteomics</i> , 2006 , 3, 83-87	3.3	6
22	High-yield production of a super-soluble miniature spidroin for biomimetic high-performance materials. <i>Materials Today</i> , 2021 ,	21.8	5
21	High intracellular stability of the spidroin N-terminal domain in spite of abundant amyloidogenic segments revealed by in-cell hydrogen/deuterium exchange mass spectrometry. <i>FEBS Journal</i> , 2020 , 287, 2823-2833	5.7	4
20	Native-like Flow Properties of an Artificial Spider Silk Dope. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 462-471	5.5	4
19	Degree of Biomimicry of Artificial Spider Silk Spinning Assessed by NMR Spectroscopy. <i>Angewandte Chemie</i> , 2017 , 129, 12745-12749	3.6	3
18	Systemic AA amyloidosis in the red fox (<i>Vulpes vulpes</i>). <i>Protein Science</i> , 2017 , 26, 2312-2318	6.3	2

17	AA amyloid in human food chain is a possible biohazard. <i>Scientific Reports</i> , 2021 , 11, 21069	4.9	2
16	In Vitro Study of Human Immune Responses to Hyaluronic Acid Hydrogels, Recombinant Spidroins and Human Neural Progenitor Cells of Relevance to Spinal Cord Injury Repair. <i>Cells</i> , 2021 , 10,	7.9	2
15	Expression of the human molecular chaperone domain Bri2 BRICHOS on a gram per liter scale with an E. coli fed-batch culture. <i>Microbial Cell Factories</i> , 2021 , 20, 150	6.4	2
14	Artificial and natural silk materials have high mechanical property variability regardless of sample size.. <i>Scientific Reports</i> , 2022 , 12, 3507	4.9	2
13	A Novel Approach for the Production of Aggregation-Prone Proteins Using the Spidroin-Derived NT* Tag.. <i>Methods in Molecular Biology</i> , 2022 , 2406, 113-130	1.4	1
12	An Image-Analysis-Based Method for the Prediction of Recombinant Protein Fiber Tensile Strength.. <i>Materials</i> , 2022 , 15,	3.5	1
11	Artificial spider silk supports and guides neurite extension in vitro. <i>FASEB Journal</i> , 2021 , 35, e21896	0.9	1
10	Recombinant spider silk protein matrices facilitate multi-analysis of calcium-signaling in neural stem cell-derived AMPA-responsive neurons		1
9	Recombinant Spider Silk Protein Matrices Facilitate Differentiation of Neural Stem Cells Into Mature and Functional Neurons. <i>Frontiers in Materials</i> , 2021 , 7,	4	1
8	Expression of JNK interacting protein JIP-1 is down-regulated in liver from mouse embryos with a disrupted insulin-like growth factor II gene. <i>In Vivo</i> , 2004 , 18, 643-7	2.3	1
7	The JNK interacting protein JIP-1 and insulin like growth factor II genes are co-expressed in human embryonic tumours. <i>Anticancer Research</i> , 2005 , 25, 1075-8	2.3	1
6	A "spindle and thread" mechanism unblocks p53 translation by modulating N-terminal disorder.. <i>Structure</i> , 2022 ,	5.2	1
5	The dimerization mechanism of the N-terminal domain of spider silk proteins is conserved despite extensive sequence divergence.. <i>Journal of Biological Chemistry</i> , 2022 , 101913	5.4	1
4	Efficient delipidation of a recombinant lung surfactant lipopeptide analogue by liquid-gel chromatography. <i>PLoS ONE</i> , 2019 , 14, e0226072	3.7	0
3	Engineered Spider Silk Proteins for Biomimetic Spinning of Fibers with Toughness Equal to Dragline Silks. <i>Advanced Functional Materials</i> , 2020 , 30, 2200986	15.6	0
2	Engineered Spider Silk Proteins for Biomimetic Spinning of Fibers with Toughness Equal to Dragline Silks (Adv. Funct. Mater. 23/2022). <i>Advanced Functional Materials</i> , 2022 , 32, 2270134	15.6	0
1	Citrullination Alters the Antibacterial and Anti-Inflammatory Functions of the Host Defense Peptide Canine Cathelicidin K9CATH In Vitro. <i>Journal of Immunology</i> , 2021 , 207, 974-984	5.3	