

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6567995/jan-johansson-publications-by-citations.pdf>  
**Version:** 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.  
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

176 papers	8,154 citations	51 h-index	85 g-index
185 ext. papers	9,227 ext. citations	6.3 avg, IF	5.92 L-index

#	Paper	IF	Citations
176	Self-assembly of spider silk proteins is controlled by a pH-sensitive relay. <i>Nature</i> , <b>2010</b> , 465, 236-8	50.4	328
175	A molecular chaperone breaks the catalytic cycle that generates toxic A $\beta$ oligomers. <i>Nature Structural and Molecular Biology</i> , <b>2015</b> , 22, 207-213	17.6	268
174	Prediction of amyloid fibril-forming proteins. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 12945-50	5.4	240
173	Molecular structures and interactions of pulmonary surfactant components. <i>FEBS Journal</i> , <b>1997</b> , 244, 675-93		233
172	Toward spinning artificial spider silk. <i>Nature Chemical Biology</i> , <b>2015</b> , 11, 309-15	11.7	210
171	Hydrophobic surfactant-associated polypeptides: SP-C is a lipopeptide with two palmitoylated cysteine residues, whereas SP-B lacks covalently linked fatty acyl groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1990</b> , 87, 2985-9	11.5	205
170	TGF- $\beta$ -induced EMT promotes targeted migration of breast cancer cells through the lymphatic system by the activation of CCR7/CCL21-mediated chemotaxis. <i>Oncogene</i> , <b>2016</b> , 35, 748-60	9.2	194
169	The NMR structure of the pulmonary surfactant-associated polypeptide SP-C in an apolar solvent contains a valyl-rich alpha-helix. <i>Biochemistry</i> , <b>1994</b> , 33, 6015-23	3.2	184
168	Kinetic analysis reveals the diversity of microscopic mechanisms through which molecular chaperones suppress amyloid formation. <i>Nature Communications</i> , <b>2016</b> , 7, 10948	17.4	153
167	The proteins of the surfactant system. <i>European Respiratory Journal</i> , <b>1994</b> , 7, 372-91	13.6	152
166	Structure and orientation of the surfactant-associated protein C in a lipid bilayer. <i>FEBS Journal</i> , <b>1992</b> , 203, 201-9		149
165	Spider silk proteins: recent advances in recombinant production, structure-function relationships and biomedical applications. <i>Cellular and Molecular Life Sciences</i> , <b>2011</b> , 68, 169-84	10.3	144
164	Macroscopic fibers self-assembled from recombinant miniature spider silk proteins. <i>Biomacromolecules</i> , <b>2007</b> , 8, 1695-701	6.9	144
163	Biomimetic spinning of artificial spider silk from a chimeric minispidroin. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 262-264	11.7	143
162	Secondary structure and orientation of the surfactant protein SP-B in a lipid environment. A Fourier transform infrared spectroscopy study. <i>Biochemistry</i> , <b>1992</b> , 31, 9169-76	3.2	136
161	Structure and properties of surfactant protein C. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>1998</b> , 1408, 161-72	6.9	132
160	MiR-155-mediated loss of C/EBP $\beta$ shifts the TGF- $\beta$ response from growth inhibition to epithelial-mesenchymal transition, invasion and metastasis in breast cancer. <i>Oncogene</i> , <b>2013</b> , 32, 5614-24	9.2	123

159	An amphipathic helical motif common to tumourolytic polypeptide NK-lysin and pulmonary surfactant polypeptide SP-B. <i>FEBS Letters</i> , <b>1995</b> , 362, 328-32	3.8	123
158	N-terminal nonrepetitive domain common to dragline, flagelliform, and cylindriiform spider silk proteins. <i>Biomacromolecules</i> , <b>2006</b> , 7, 3120-4	6.9	122
157	Structural properties of recombinant nonrepetitive and repetitive parts of major ampullate spidroin 1 from <i>Euprosthenops australis</i> : implications for fiber formation. <i>Biochemistry</i> , <b>2008</b> , 47, 3407-17	3.2	113
156	Surfactant protein B: disulfide bridges, structural properties, and kringle similarities. <i>Biochemistry</i> , <b>1991</b> , 30, 6917-21	3.2	112
155	Carbonic anhydrase generates CO <sub>2</sub> and H <sup>+</sup> that drive spider silk formation via opposite effects on the terminal domains. <i>PLoS Biology</i> , <b>2014</b> , 12, e1001921	9.7	109
154	Processing of pulmonary surfactant protein B by napsin and cathepsin H. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 16178-84	5.4	105
153	BRICHOS domains efficiently delay fibrillation of amyloid E-peptide. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 31608-17	5.4	103
152	Sequential pH-driven dimerization and stabilization of the N-terminal domain enables rapid spider silk formation. <i>Nature Communications</i> , <b>2014</b> , 5, 3254	17.4	96
151	Recombinant spider silk as matrices for cell culture. <i>Biomaterials</i> , <b>2010</b> , 31, 9575-85	15.6	89
150	High-resolution structure of a BRICHOS domain and its implications for anti-amyloid chaperone activity on lung surfactant protein C. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 2325-9	11.5	87
149	Secondary structure and membrane interaction of PR-39, a Pro+Arg-rich antibacterial peptide. <i>FEBS Journal</i> , <b>1994</b> , 224, 1019-27		87
148	Amyloid fibril formation by pulmonary surfactant protein C. <i>FEBS Letters</i> , <b>1999</b> , 464, 138-42	3.8	86
147	Low-molecular-mass surfactant protein type 1. The primary structure of a hydrophobic 8-kDa polypeptide with eight half-cystine residues. <i>FEBS Journal</i> , <b>1988</b> , 172, 521-5		86
146	Secondary structure and biophysical activity of synthetic analogues of the pulmonary surfactant polypeptide SP-C. <i>Biochemical Journal</i> , <b>1995</b> , 307 ( Pt 2), 535-41	3.8	85
145	Silk Spinning in Silkworms and Spiders. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	78
144	Synthetic peptide-containing surfactants--evaluation of transmembrane versus amphipathic helices and surfactant protein C poly-valyl to poly-leucyl substitution. <i>FEBS Journal</i> , <b>1998</b> , 255, 116-24		77
143	Pulmonary surfactant-associated polypeptide C in a mixed organic solvent transforms from a monomeric alpha-helical state into insoluble beta-sheet aggregates. <i>Protein Science</i> , <b>1998</b> , 7, 2533-40	6.3	76
142	Size and structure of the hydrophobic low molecular weight surfactant-associated polypeptide. <i>Biochemistry</i> , <b>1988</b> , 27, 3544-7	3.2	74

141	Mapping and analysis of the lytic and fusogenic domains of surfactant protein B. <i>Biochemistry</i> , <b>2005</b> , 44, 861-72	3.2	69
140	Tissue Response to Subcutaneously Implanted Recombinant Spider Silk: An in Vivo Study. <i>Materials</i> , <b>2009</b> , 2, 1908-1922	3.5	65
139	Current and future treatment of amyloid diseases. <i>Journal of Internal Medicine</i> , <b>2016</b> , 280, 177-202	10.8	65
138	Invited review current progress and limitations of spider silk for biomedical applications. <i>Biopolymers</i> , <b>2012</b> , 97, 468-78	2.2	64
137	BRICHOS - a superfamily of multidomain proteins with diverse functions. <i>BMC Research Notes</i> , <b>2009</b> , 2, 180	2.3	64
136	Amyloid- $\beta$ -induced action potential desynchronization and degradation of hippocampal gamma oscillations is prevented by interference with peptide conformation change and aggregation. <i>Journal of Neuroscience</i> , <b>2014</b> , 34, 11416-25	6.6	61
135	pH-dependent dimerization of spider silk N-terminal domain requires relocation of a wedged tryptophan side chain. <i>Journal of Molecular Biology</i> , <b>2012</b> , 422, 477-87	6.5	61
134	Full-length minor ampullate spidroin gene sequence. <i>PLoS ONE</i> , <b>2012</b> , 7, e52293	3.7	58
133	Pulmonary surfactant protein B: a structural model and a functional analogue. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2000</b> , 1466, 179-86	3.8	57
132	Interaction of pulmonary surfactant protein C with CD14 and lipopolysaccharide. <i>Infection and Immunity</i> , <b>2003</b> , 71, 61-7	3.7	56
131	The 21-residue surfactant peptide (LysLeu4)4Lys(KL4) is a transmembrane $\alpha$ -helix with a mixed nonpolar/polar surface. <i>FEBS Letters</i> , <b>1996</b> , 384, 185-8	3.8	55
130	Reverse-phase HPLC of the hydrophobic pulmonary surfactant proteins: detection of a surfactant protein C isoform containing Nepsilon-palmitoyl-lysine. <i>Biochemical Journal</i> , <b>1997</b> , 326 ( Pt 3), 799-806	3.8	54
129	The Brichos domain-containing C-terminal part of pro-surfactant protein C binds to an unfolded poly-val transmembrane segment. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 21032-21039	5.4	54
128	Molecular effects of proinsulin C-peptide. <i>Biochemical and Biophysical Research Communications</i> , <b>2002</b> , 295, 1035-40	3.4	54
127	Mitochondrial aldehyde dehydrogenase from horse liver. Correlations of the same species variants for both the cytosolic and the mitochondrial forms of an enzyme. <i>FEBS Journal</i> , <b>1988</b> , 172, 527-33		53
126	Pulmonary surfactant-associated polypeptide SP-C in lipid micelles: CD studies of intact SP-C and NMR secondary structure determination of depalmitoyl-SP-C(1-17). <i>FEBS Letters</i> , <b>1995</b> , 362, 261-5	3.8	52
125	The BRICHOS domain, amyloid fibril formation, and their relationship. <i>Biochemistry</i> , <b>2013</b> , 52, 7523-31	3.2	51
124	BRICHOS domain associated with lung fibrosis, dementia and cancer--a chaperone that prevents amyloid fibril formation?. <i>FEBS Journal</i> , <b>2011</b> , 278, 3893-904	5.7	51

123	Surfactant protein B propeptide contains a saposin-like protein domain with antimicrobial activity at low pH. <i>Journal of Immunology</i> , <b>2010</b> , 184, 975-83	5.3	51
122	A synthetic surfactant based on a poly-Leu SP-C analog and phospholipids: effects on tidal volumes and lung gas volumes in ventilated immature newborn rabbits. <i>Journal of Applied Physiology</i> , <b>2003</b> , 95, 2055-63	3.7	51
121	Hydrophobic 3.7 kDa surfactant polypeptide: structural characterization of the human and bovine forms. <i>FEBS Letters</i> , <b>1988</b> , 232, 61-4	3.8	50
120	Structural basis for interactions between lung surfactant protein C and bacterial lipopolysaccharide. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 23484-92	5.4	49
119	Efficient protein production inspired by how spiders make silk. <i>Nature Communications</i> , <b>2017</b> , 8, 15504	17.4	48
118	A pH-dependent dimer lock in spider silk protein. <i>Journal of Molecular Biology</i> , <b>2010</b> , 404, 328-36	6.5	47
117	Surfactant proteins B and C are both necessary for alveolar stability at end expiration in premature rabbits with respiratory distress syndrome. <i>Journal of Applied Physiology</i> , <b>2008</b> , 104, 1101-8	3.7	47
116	Recombinant spider silk genetically functionalized with affinity domains. <i>Biomacromolecules</i> , <b>2014</b> , 15, 1696-706	6.9	45
115	Mutations linked to interstitial lung disease can abrogate anti-amyloid function of prosurfactant protein C. <i>Biochemical Journal</i> , <b>2008</b> , 416, 201-9	3.8	45
114	Synthetic surfactant based on analogues of SP-B and SP-C is superior to single-peptide surfactants in ventilated premature rabbits. <i>Neonatology</i> , <b>2010</b> , 98, 91-9	4	44
113	Sterilized recombinant spider silk fibers of low pyrogenicity. <i>Biomacromolecules</i> , <b>2010</b> , 11, 953-9	6.9	43
112	The palmitoyl groups of lung surfactant protein C reduce unfolding into a fibrillogenic intermediate. <i>Journal of Molecular Biology</i> , <b>2001</b> , 310, 937-50	6.5	42
111	Canine hydrophobic surfactant polypeptide SP-C. A lipopeptide with one thioester-linked palmitoyl group. <i>FEBS Letters</i> , <b>1991</b> , 281, 119-22	3.8	42
110	The extracellular domain of Bri2 (ITM2B) binds the ABri peptide (1-23) and amyloid beta-peptide (Abeta1-40): Implications for Bri2 effects on processing of amyloid precursor protein and Abeta aggregation. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 393, 356-61	3.4	40
109	A method for S- and O-palmitoylation of peptides: synthesis of pulmonary surfactant protein-C models. <i>Biochemical Journal</i> , <b>1999</b> , 343, 557-562	3.8	40
108	Major ampullate spidroins from <i>Euprosthenops australis</i> : multiplicity at protein, mRNA and gene levels. <i>Insect Molecular Biology</i> , <b>2007</b> , 16, 551-61	3.4	39
107	Morphology and composition of the spider major ampullate gland and dragline silk. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2945-52	6.9	37
106	Peptides of postulated inhibin activity. Lack of in vitro inhibin activity of a 94-residue peptide isolated from human seminal plasma, and of a synthetic replicate of its C-terminal 28-residue segment. <i>FEBS Letters</i> , <b>1986</b> , 199, 242-8	3.8	37

105	The chaperone domain BRICHOS prevents CNS toxicity of amyloid- $\beta$ peptide in <i>Drosophila melanogaster</i> . <i>DMM Disease Models and Mechanisms</i> , <b>2014</b> , 7, 659-65	4.1	36
104	Bri2 BRICHOS client specificity and chaperone activity are governed by assembly state. <i>Nature Communications</i> , <b>2017</b> , 8, 2081	17.4	35
103	Palmitoylation of a pulmonary surfactant protein C analogue affects the surface associated lipid reservoir and film stability. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2000</b> , 1466, 169-78	3.8	35
102	Spider silk for xeno-free long-term self-renewal and differentiation of human pluripotent stem cells. <i>Biomaterials</i> , <b>2014</b> , 35, 8496-502	15.6	34
101	Engineered disulfides improve mechanical properties of recombinant spider silk. <i>Protein Science</i> , <b>2009</b> , 18, 1012-22	6.3	34
100	Anti-amyloid activity of the C-terminal domain of proSP-C against amyloid beta-peptide and medin. <i>Biochemistry</i> , <b>2009</b> , 48, 3778-86	3.2	34
99	The effect of environment on the stability of an integral membrane helix: molecular dynamics simulations of surfactant protein C in chloroform, methanol and water. <i>Journal of Molecular Biology</i> , <b>1995</b> , 247, 808-22	6.5	34
98	Identification of hydrophobic fragments of alpha 1-antitrypsin and C1 protease inhibitor in human bile, plasma and spleen. <i>FEBS Letters</i> , <b>1992</b> , 299, 146-8	3.8	32
97	The Brichos domain of prosurfactant protein C can hold and fold a transmembrane segment. <i>Protein Science</i> , <b>2009</b> , 18, 1175-82	6.3	31
96	N-terminally extended surfactant protein (SP) C isolated from SP-B-deficient children has reduced surface activity and inhibited lipopolysaccharide binding. <i>Biochemistry</i> , <b>2004</b> , 43, 3891-8	3.2	31
95	Carbonic anhydrase generates a pH gradient in <i>Bombyx mori</i> silk glands. <i>Insect Biochemistry and Molecular Biology</i> , <b>2015</b> , 65, 100-6	4.5	30
94	Biomimicry of surfactant protein C. <i>Accounts of Chemical Research</i> , <b>2008</b> , 41, 1409-17	24.3	30
93	Diversified Structural Basis of a Conserved Molecular Mechanism for pH-Dependent Dimerization in Spider Silk N-Terminal Domains. <i>ChemBioChem</i> , <b>2015</b> , 16, 1720-4	3.8	29
92	BRICHOS domain of Bri2 inhibits islet amyloid polypeptide (IAPP) fibril formation and toxicity in human beta cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E2752-E2761	11.5	28
91	Dementia-related Bri2 BRICHOS is a versatile molecular chaperone that efficiently inhibits A $\beta$ 2 toxicity in <i>Drosophila</i> . <i>Biochemical Journal</i> , <b>2016</b> , 473, 3683-3704	3.8	28
90	Determination of proteins, phosphatidylethanolamine, and phosphatidylserine in organic solvent extracts of tissue material by analysis of phenylthiocarbamyl derivatives. <i>Analytical Biochemistry</i> , <b>1998</b> , 265, 97-102	3.1	28
89	Cellular antiendotoxin activities of lung surfactant protein C in lipid vesicles. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2003</b> , 168, 335-41	10.2	28
88	Biophysical activity of an artificial surfactant containing an analogue of surfactant protein (SP)-C and native SP-B. <i>Biochemical Journal</i> , <b>1999</b> , 339, 381-386	3.8	28

87	Specific chaperones and regulatory domains in control of amyloid formation. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 26430-6	5.4	27
86	Different effects of surfactant proteins B and C - implications for development of synthetic surfactants. <i>Neonatology</i> , <b>2010</b> , 97, 367-72	4	27
85	Human surfactant polypeptide SP-B. Disulfide bridges, C-terminal end, and peptide analysis of the airway form. <i>FEBS Letters</i> , <b>1992</b> , 301, 165-7	3.8	27
84	Synthetic surfactants with SP-B and SP-C analogues to enable worldwide treatment of neonatal respiratory distress syndrome and other lung diseases. <i>Journal of Internal Medicine</i> , <b>2019</b> , 285, 165-186	10.8	27
83	Characterisation of variant forms of prophenin: mechanistic aspects of the fragmentation of proline-rich peptides. <i>Rapid Communications in Mass Spectrometry</i> , <b>2000</b> , 14, 2182-202	2.2	25
82	Isolation and characterization of hydrophobic polypeptides in human bile. <i>FEBS Journal</i> , <b>1999</b> , 266, 209-14		25
81	Amino acid sequence determinants and molecular chaperones in amyloid fibril formation. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 396, 2-6	3.4	24
80	Preventing amyloid formation by catching unfolded transmembrane segments. <i>Journal of Molecular Biology</i> , <b>2009</b> , 389, 227-9	6.5	24
79	Membrane properties and amyloid fibril formation of lung surfactant protein C. <i>Biochemical Society Transactions</i> , <b>2001</b> , 29, 601-6	5.1	24
78	Hydrogen/deuterium exchange and aggregation of a polyvaline and a poly-leucine alpha-helix investigated by matrix-assisted laser desorption ionization mass spectrometry. <i>Molecular and Cellular Proteomics</i> , <b>2002</b> , 1, 592-7	7.6	24
77	Structural and Functional Importance of the C-Terminal Part of the Pulmonary Surfactant Polypeptide SP-C. <i>FEBS Journal</i> , <b>1995</b> , 229, 465-472		24
76	A spidroin-derived solubility tag enables controlled aggregation of a designed amyloid protein. <i>FEBS Journal</i> , <b>2018</b> , 285, 1873-1885	5.7	22
75	Conformational preferences of non-polar amino acid residues: an additional factor in amyloid formation. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 402, 515-8	3.4	21
74	Secondary structure and limited proteolysis give experimental evidence that the precursor of pulmonary surfactant protein B contains three saposin-like domains. <i>FEBS Letters</i> , <b>1998</b> , 423, 1-4	3.8	19
73	C-terminal, endoplasmic reticulum-lumenal domain of prosurfactant protein C - structural features and membrane interactions. <i>FEBS Journal</i> , <b>2008</b> , 275, 536-47	5.7	19
72	Porcine pulmonary surfactant preparations contain the antibacterial peptide prophenin and a C-terminal 18-residue fragment thereof. <i>FEBS Letters</i> , <b>1999</b> , 460, 257-62	3.8	19
71	Transthyretin and BRICHOS: The Paradox of Amyloidogenic Proteins with Anti-Amyloidogenic Activity for Aβ in the Central Nervous System. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 119	5.1	18
70	Functionalisation of recombinant spider silk with conjugated polyelectrolytes. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2909		18



69	Novel expression of a functional trimeric fragment of human SP-A with efficacy in neutralisation of RSV. <i>Immunobiology</i> , <b>2017</b> , 222, 111-118	3.4	16
68	Structure-Function Relationship of Artificial Spider Silk Fibers Produced by Straining Flow Spinning. <i>Biomacromolecules</i> , <b>2020</b> , 21, 2116-2124	6.9	16
67	High-yield Production of Amyloid- $\beta$ Peptide Enabled by a Customized Spider Silk Domain. <i>Scientific Reports</i> , <b>2020</b> , 10, 235	4.9	16
66	Mass Spectrometry Reveals the Direct Action of a Chemical Chaperone. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 4082-4086	6.4	16
65	Separate molecular determinants in amyloidogenic and antimicrobial peptides. <i>Journal of Molecular Biology</i> , <b>2014</b> , 426, 2159-66	6.5	16
64	Transmissible amyloid. <i>Journal of Internal Medicine</i> , <b>2016</b> , 280, 153-63	10.8	16
63	Doing What Spiders Cannot-A Road Map to Supreme Artificial Silk Fibers. <i>ACS Nano</i> , <b>2021</b> , 15, 1952-1959	16.7	16
62	Dissociation of a BRICHOS trimer into monomers leads to increased inhibitory effect on A $\beta$ 2 fibril formation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2015</b> , 1854, 835-43	4	15
61	Degree of Biomimicry of Artificial Spider Silk Spinning Assessed by NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 12571-12575	16.4	15
60	Peptide-binding specificity of the prosurfactant protein C Brichos domain analyzed by electrospray ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>2009</b> , 23, 3591-8	2.2	15
59	The N-terminal propeptide of lung surfactant protein C is necessary for biosynthesis and prevents unfolding of a metastable alpha-helix. <i>Journal of Molecular Biology</i> , <b>2004</b> , 338, 857-62	6.5	15
58	Production and Properties of Triple Chimeric Spidroins. <i>Biomacromolecules</i> , <b>2018</b> , 19, 2825-2833	6.9	14
57	BRICHOS binds to a designed amyloid-forming $\beta$ protein and reduces proteasomal inhibition and aggresome formation. <i>Biochemical Journal</i> , <b>2016</b> , 473, 167-78	3.8	14
56	Control of amyloid assembly by autoregulation. <i>Biochemical Journal</i> , <b>2012</b> , 447, 185-92	3.8	13
55	Synthetic protein analogues in artificial surfactants. <i>Acta Paediatrica, International Journal of Paediatrics</i> , <b>1996</b> , 85, 642-6	3.1	13
54	Mass spectrometry captures structural intermediates in protein fiber self-assembly. <i>Chemical Communications</i> , <b>2017</b> , 53, 3319-3322	5.8	12
53	C/EBP $\beta$ expression is an independent predictor of overall survival in breast cancer patients by MHCII/CD4-dependent mechanism of metastasis formation. <i>Oncogenesis</i> , <b>2014</b> , 3, e125	6.6	12
52	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> , <b>2020</b> , 154, 765-772	7.9	11



51	Augmentation of Bri2 molecular chaperone activity against amyloid- $\beta$ reduces neurotoxicity in mouse hippocampus in vitro. <i>Communications Biology</i> , <b>2020</b> , 3, 32	6.7	11
50	Phospholipid Composition in Synthetic Surfactants Is Important for Tidal Volumes and Alveolar Stability in Surfactant-Treated Preterm Newborn Rabbits. <i>Neonatology</i> , <b>2016</b> , 109, 177-85	4	11
49	Analysis of variant forms of porcine surfactant polypeptide-C by nano-electrospray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , <b>1998</b> , 12, 1104-14	2.2	11
48	Alcohol dehydrogenases and aldehyde dehydrogenases. <i>Biochemical Society Transactions</i> , <b>1988</b> , 16, 223-31	3.1	11
47	The Bri2 and Bri3 BRICHOS Domains Interact Differently with A $\beta$ and Alzheimer Amyloid Plaques. <i>Journal of Alzheimer's Disease Reports</i> , <b>2018</b> , 2, 27-39	3.3	11
46	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> , <b>2019</b> , 20, 245	7.3	10
45	Amyloid fibrils. <i>FEBS Journal</i> , <b>2005</b> , 272, 5941	5.7	10
44	Artificial surfactants based on analogues of SP-B and SP-C. <i>Fetal and Pediatric Pathology</i> , <b>2001</b> , 20, 501-18		10
43	BRI2 ectodomain affects A $\beta$ 2 fibrillation and tau truncation in human neuroblastoma cells. <i>Cellular and Molecular Life Sciences</i> , <b>2015</b> , 72, 1599-611	10.3	9
42	Free energy barrier estimation of unfolding the alpha-helical surfactant-associated polypeptide C. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2001</b> , 43, 395-402	4.2	9
41	Folding and Intramembraneous BRICHOS Binding of the Prosurfactant Protein C Transmembrane Segment. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 17628-41	5.4	7
40	Recombinant BRICHOS chaperone domains delivered to mouse brain parenchyma by focused ultrasound and microbubbles are internalized by hippocampal and cortical neurons. <i>Molecular and Cellular Neurosciences</i> , <b>2020</b> , 105, 103498	4.8	7
39	Structure and influence on stability and activity of the N-terminal propeptide part of lung surfactant protein C. <i>FEBS Journal</i> , <b>2006</b> , 273, 926-35	5.7	7
38	Modulation of Kv3.1/Kv3.2 promotes gamma oscillations by rescuing A $\beta$ -induced desynchronization of fast-spiking interneuron firing in an AD mouse model in vitro. <i>Journal of Physiology</i> , <b>2020</b> , 598, 3711-3725	3.9	7
37	Blood-brain and blood-cerebrospinal fluid passage of BRICHOS domains from two molecular chaperones in mice. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 2606-2615	5.4	6
36	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> , <b>2014</b> , 2, 50	5.8	6
35	Alterations of the C-terminal end do not affect in vitro or in vivo activity of surfactant protein C analogs. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 27-32	3.8	6
34	Cysteine reactivity in sorbitol and aldehyde dehydrogenases. Differences towards the pattern in alcohol dehydrogenase. <i>FEBS Letters</i> , <b>1992</b> , 303, 1-3	3.8	6

33	Tyrosine residues mediate supercontraction in biomimetic spider silk. <i>Communications Materials</i> , <b>2021</b> , 2,	6	6
32	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> , <b>2021</b> , 9, e14700	2.6	6
31	Closely related isozymes of alcohol dehydrogenase. Carboxymethylation: gamma 1 gamma 1 differs widely from both beta 1 beta 1 and its equine equivalence EE. <i>FEBS Letters</i> , <b>1991</b> , 279, 119-22	3.8	5
30	Functionalization of amyloid fibrils via the Bri2 BRICHOS domain. <i>Scientific Reports</i> , <b>2020</b> , 10, 21765	4.9	5
29	High-yield production of a super-soluble miniature spidroin for biomimetic high-performance materials. <i>Materials Today</i> , <b>2021</b> ,	21.8	5
28	BRICHOS: a chaperone with different activities depending on quaternary structure and cellular location?. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , <b>2019</b> , 26, 152-153	2.7	4
27	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> , <b>2020</b> , 287, 2823-2833	5.7	4
26	Native-like Flow Properties of an Artificial Spider Silk Dope. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 462-471	5.5	4
25	Degree of Biomimicry of Artificial Spider Silk Spinning Assessed by NMR Spectroscopy. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 12745-12749	3.6	3
24	Ablation of p75 signaling strengthens gamma-theta rhythm interaction and counteracts Aβ-induced degradation of neuronal dynamics in mouse hippocampus in vitro. <i>Translational Psychiatry</i> , <b>2021</b> , 11, 212	8.6	3
23	Smallest Secondary Nucleation Competent Aβ Aggregates Probed by an ATP-Independent Molecular Chaperone Domain. <i>Biochemistry</i> , <b>2021</b> , 60, 678-688	3.2	3
22	Recombinant Bri3 BRICHOS domain is a molecular chaperone with effect against amyloid formation and non-fibrillar protein aggregation. <i>Scientific Reports</i> , <b>2020</b> , 10, 9817	4.9	2
21	Systemic AA amyloidosis in the red fox ( <i>Vulpes vulpes</i> ). <i>Protein Science</i> , <b>2017</b> , 26, 2312-2318	6.3	2
20	Pulmonary surfactant: emerging protein analogues. <i>BioDrugs</i> , <b>1999</b> , 11, 71-7	7.9	2
19	Superoxide dismutase in human testis preparations. <i>Bioscience Reports</i> , <b>1986</b> , 6, 535-41	4.1	2
18	AA amyloid in human food chain is a possible biohazard. <i>Scientific Reports</i> , <b>2021</b> , 11, 21069	4.9	2
17	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> , <b>2021</b> , 10,	7.9	2
16	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> , <b>2021</b> , 20, 150	6.4	2

15	Amyloid: a multifaceted player in human health and disease. <i>Journal of Internal Medicine</i> , <b>2016</b> , 280, 136-148	8.8	2
14	Harnessing the Self-Assembling Properties of Proteins in Spider Silk and Lung Surfactant <b>2013</b> , 455-470		1
13	A Novel Approach for the Production of Aggregation-Prone Proteins Using the Spidroin-Derived NT* Tag.. <i>Methods in Molecular Biology</i> , <b>2022</b> , 2406, 113-130	1.4	1
12	Artificial spider silk supports and guides neurite extension in vitro. <i>FASEB Journal</i> , <b>2021</b> , 35, e21896	0.9	1
11	Ion mobility-mass spectrometry shows stepwise protein unfolding under alkaline conditions. <i>Chemical Communications</i> , <b>2021</b> , 57, 1450-1453	5.8	1
10	A "spindle and thread" mechanism unblocks p53 translation by modulating N-terminal disorder.. <i>Structure</i> , <b>2022</b> ,	5.2	1
9	The dimerization mechanism of the N-terminal domain of spider silk proteins is conserved despite extensive sequence divergence.. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 101913	5.4	1
8	BRICHOS - an anti-amyloid chaperone: evaluation of blood-brain barrier permeability of Bri2 BRICHOS. <i>Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis</i> , <b>2017</b> , 24, 7-8	2.7	0
7	The synthesis and characterization of Bri2 BRICHOS coated magnetic particles and their application to protein fishing: Identification of novel binding proteins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 198, 113996	3.5	0
6	Efficient delipidation of a recombinant lung surfactant lipopeptide analogue by liquid-gel chromatography. <i>PLoS ONE</i> , <b>2019</b> , 14, e0226072	3.7	0
5	Disulphide Bridges in Surfactant Protein B Analogues Affect Their Activity in Synthetic Surfactant Preparations. <i>Neonatology</i> , <b>2019</b> , 115, 134-141	4	0
4	Bri2 BRICHOS chaperone rescues impaired fast-spiking interneuron behavior and neuronal network dynamics in an AD mouse model in vitro. <i>Neurobiology of Disease</i> , <b>2021</b> , 159, 105514	7.5	0
3	Engineered Spider Silk Proteins for Biomimetic Spinning of Fibers with Toughness Equal to Dragline Silks. <i>Advanced Functional Materials</i> , 2200986	15.6	0
2	Membrane properties and amyloid fibril formation of lung surfactant protein C. <i>Biochemical Society Transactions</i> , <b>2001</b> , 29, A56-A56	5.1	
1	Citrullination Alters the Antibacterial and Anti-Inflammatory Functions of the Host Defense Peptide Canine Cathelicidin K9CATH In Vitro. <i>Journal of Immunology</i> , <b>2021</b> , 207, 974-984	5.3	