David Craik

List of Publications by Year
in descending order

813 papers	44,360 citations	1883 102 h-index	5364 164 g-index
881 all docs	881 docs citations	881 times ranked	21508 citing authors

#	Article	IF	Citations
1	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. Natural Product Reports, 2013, 30, 108-160.	5.2	1,692
2	The Future of Peptideâ€based Drugs. Chemical Biology and Drug Design, 2013, 81, 136-147.	1.5	1,483
3	Plant cyclotides: A unique family of cyclic and knotted proteins that defines the cyclic cystine knot structural motif. Journal of Molecular Biology, 1999, 294, 1327-1336.	2.0	734
4	Thermal, Chemical, and Enzymatic Stability of the Cyclotide Kalata B1:Â The Importance of the Cyclic Cystine Knotâ€. Biochemistry, 2004, 43, 5965-5975.	1.2	520
5	A common structural motif incorporating a cystine knot and a tripleâ€stranded Î²â€sheet in toxic and inhibitory polypeptides. Protein Science, 1994, 3, 1833-1839.	3.1	518
6	Functional group contributions to drug-receptor interactions. Journal of Medicinal Chemistry, 1984, 27, 1648-1657.	2.9	502
7	Solution Structure of Amyloid Î²-Peptide(1â^'40) in a Waterâ^'Micelle Environment. Is the Membrane-Spanning Domain Where We Think It Is?â€,â€¡. Biochemistry, 1998, 37, 11064-11077.	1.2	498
8	Biosynthesis and insecticidal properties of plant cyclotides: The cyclic knotted proteins from Oldenlandia affinis. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 10614-10619.	3.3	475
9	The cystine knot motif in toxins and implications for drug design. Toxicon, 2001, 39, 43-60.	0.8	436
10	Elucidation of the Primary and Three-Dimensional Structure of the Uterotonic Polypeptide Kalata B1. Biochemistry, 1995, 34, 4147-4158.	1.2	420
11	Accurate de novo design of hyperstable constrained peptides. Nature, 2016, 538, 329-335.	13.7	327
12	ConoServer: updated content, knowledge, and discovery tools in the conopeptide database. Nucleic Acids Research, 2012, 40, D325-D330.	6.5	298
13	Protein disulfide isomerase: the structure of oxidative folding. Trends in Biochemical Sciences, 2006, 31, 455-464.	3.7	293
14	Twists, Knots, and Rings in Proteins. Journal of Biological Chemistry, 2003, 278, 8606-8616.	1.6	292
15	CHEMISTRY: Seamless Proteins Tie Up Their Loose Ends. Science, 2006, 311, 1563-1564.	6.0	281
16	The Engineering of an Orally Active Conotoxin for the Treatment of Neuropathic Pain. Angewandte Chemie - International Edition, 2010, 49, 6545-6548.	7.2	280
17	Circular proteins â€" no end in sight. Trends in Biochemical Sciences, 2002, 27, 132-138.	3.7	258
18	Discovery, Synthesis, and Structureâ€"Activity Relationships of Conotoxins. Chemical Reviews, 2014, 114, 5815-5847.	23.0	258

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19	Microcin J25 Has a Threaded Sidechain-to-Backbone Ring Structure and Not a Head-to-Tail Cyclized Backbone. Journal of the American Chemical Society, 2003, 125, 12464-12474.	6.6	248
20	CyBase: a database of cyclic protein sequences and structures, with applications in protein discovery and engineering. Nucleic Acids Research, 2007, 36, D206-D210.	6.5	242
21	Low-Molecular-Weight Peptidic and Cyclic Antagonists of the Receptor for the Complement Factor C5a. Journal of Medicinal Chemistry, 1999, 42, 1965-1974.	2.9	241
22	Distribution and Evolution of Circular Miniproteins in Flowering Plants. Plant Cell, 2008, 20, 2471-2483.	3.1	234
23	Two new classes of conopeptides inhibit the Î±1-adrenoceptor and noradrenaline transporter. Nature Neuroscience, 2001, 4, 902-907.	7.1	233
24	Isolation, Solution Structure, and Insecticidal Activity of Kalata B2, a Circular Protein with a Twist:Â Do MÃ¶bius Strips Exist in Nature?â€‚â€¡. Biochemistry, 2005, 44, 851-860.	1.2	225
25	Solution structures by 1 H NMR of the novel cyclic trypsin inhibitor SFTI-1 from sunflower seeds and an acyclic permutant 1 1Edited by M. F. Summers. Journal of Molecular Biology, 2001, 311, 579-591.	2.0	220
26	Engineering stable peptide toxins by means of backbone cyclization: Stabilization of the Â-conotoxin MII. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13767-13772.	3.3	220
27	Chemical Synthesis and Folding Pathways of Large Cyclic Polypeptides:Â Studies of the Cystine Knot Polypeptide Kalata B1â€. Biochemistry, 1999, 38, 10606-10614.	1.2	219
28	Circular Proteins in Plants. Journal of Biological Chemistry, 2001, 276, 22875-22882.	1.6	209
29	An Asparaginyl Endopeptidase Mediates in Vivo Protein Backbone Cyclization. Journal of Biological Chemistry, 2007, 282, 29721-29728.	1.6	207
30	Novel Ï‰-Conotoxins from Conus catus Discriminate among Neuronal Calcium Channel Subtypes. Journal of Biological Chemistry, 2000, 275, 35335-35344.	1.6	199
31	Conopeptide characterization and classifications: An analysis using ConoServer. Toxicon, 2010, 55, 1491-1509.	0.8	198
32	Engineering pro-angiogenic peptides using stable, disulfide-rich cyclic scaffolds. Blood, 2011, 118, 6709-6717.	0.6	197
33	Plant cyclotides disrupt epithelial cells in the midgut of lepidopteran larvae. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1221-1225.	3.3	194
34	ConoServer, a database for conopeptide sequences and structures. Bioinformatics, 2008, 24, 445-446.	1.8	193
35	Efficient backbone cyclization of linear peptides by a recombinant asparaginyl endopeptidase. Nature Communications, 2015, 6, 10199.	5.8	186
36	Engineering Stabilized Vascular Endothelial Growth Factor-A Antagonists: Synthesis, Structural Characterization, and Bioactivity of Grafted Analogues of Cyclotides. Journal of Medicinal Chemistry, 2008, 51, 7697-7704.	2.9	177

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37	Discovery, structure and biological activities of cyclotidesâ˜†. Advanced Drug Delivery Reviews, 2009, 61, 918-930.	6.6	176
38	Designing macrocyclic disulfide-rich peptides for biotechnological applications. Nature Chemical Biology, 2018, 14, 417-427.	3.9	174
39	Conotoxins: Chemistry and Biology. Chemical Reviews, 2019, 119, 11510-11549.	23.0	174
40	Biosynthesis of circular proteins in plants. Plant Journal, 2008, 53, 505-515.	2.8	172
41	Î±-Selenoconotoxins, a New Class of Potent Î±7 Neuronal Nicotinic Receptor Antagonists. Journal of Biological Chemistry, 2006, 281, 14136-14143.	1.6	171
42	A novel suite of cyclotides from Viola odorata: sequence variation and the implications for structure, function and stability. Biochemical Journal, 2006, 400, 1-12.	1.7	170
43	Discovery, Structure and Biological Activities of the Cyclotides. Current Protein and Peptide Science, 2004, 5, 297-315.	0.7	167
44	The Vast Structural Diversity of Antimicrobial Peptides. Trends in Pharmacological Sciences, 2019, 40, 517-528.	4.0	165
45	Structure determination of the three disulfide bond isomers of Î±-conotoxin GI: a model for the role of disulfide bonds in structural stability 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1998, 278, 401-415.	2.0	163
46	Backbone Cyclised Peptides from Plants Show Molluscicidal Activity against the Rice Pest <i>Pomacea canaliculata</i> (Golden Apple Snail). Journal of Agricultural and Food Chemistry, 2008, 56, 5237-5241.	2.4	163
47	Anti-HIV Cyclotides from the Chinese Medicinal Herb <i>Viola yedoensis</i>. Journal of Natural Products, 2008, 71, 47-52.	1.5	163
48	Structural plasticity of the cyclic-cystine-knot framework: implications for biological activity and drug design. Biochemical Journal, 2006, 394, 85-93.	1.7	162
49	Cyclotides: Natural, Circular Plant Peptides that Possess Significant Activity against Gastrointestinal Nematode Parasites of Sheep. Biochemistry, 2008, 47, 5581-5589.	1.2	162
50	Identification and Characterization of a New Family of Cell-penetrating Peptides. Journal of Biological Chemistry, 2011, 286, 36932-36943.	1.6	159
51	Analgesic Î±-Conotoxins Vc1.1 and Rg1A Inhibit N-Type Calcium Channels in Rat Sensory Neurons via GABA_BReceptor Activation. Journal of Neuroscience, 2008, 28, 10943-10951.	1.7	158
52	A Continent of Plant Defense Peptide Diversity: Cyclotides in Australian Hybanthus (Violaceae). Plant Cell, 2005, 17, 3176-3189.	3.1	156
53	Nonadditive carbon-13 nuclear magnetic resonance substituent shifts in 1,4-disubstituted benzenes. Nonlinear resonance and shift-charge ratio effects. Journal of Organic Chemistry, 1980, 45, 2429-2438.	1.7	155
54	Decoding the Membrane Activity of the Cyclotide Kalata B1. Journal of Biological Chemistry, 2011, 286, 24231-24241.	1.6	155

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55	Three-Dimensional Structure of RTD-1, a Cyclic Antimicrobial Defensin from Rhesus Macaque Leukocytesâ€‚â€¡. Biochemistry, 2001, 40, 4211-4221.	1.2	153
56	Alanine Scanning Mutagenesis of the Prototypic Cyclotide Reveals a Cluster of Residues Essential for Bioactivity. Journal of Biological Chemistry, 2008, 283, 9805-9813.	1.6	153
57	Discovery of Cyclotides in the Fabaceae Plant Family Provides New Insights into the Cyclization, Evolution, and Distribution of Circular Proteins. ACS Chemical Biology, 2011, 6, 345-355.	1.6	151
58	Solution Structure of Methionine-Oxidized Amyloid Î²-Peptide (1â^'40). Does Oxidation Affect Conformational Switching?â€‚â€¡. Biochemistry, 1998, 37, 12700-12706.	1.2	144
59	The Biological Activity of the Prototypic Cyclotide Kalata B1 Is Modulated by the Formation of Multimeric Pores. Journal of Biological Chemistry, 2009, 284, 20699-20707.	1.6	144
60	Design and characterization of novel antimicrobial peptides, R-BP100 and RW-BP100, with activity against Gram-negative and Gram-positive bacteria. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 944-955.	1.4	144
61	Discovery of an unusual biosynthetic origin for circular proteins in legumes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10127-10132.	3.3	143
62	The cyclotide family of circular miniproteins: Nature's combinatorial peptide template. Biopolymers, 2006, 84, 250-266.	1.2	142
63	Bioactive cystine knot proteins. Current Opinion in Chemical Biology, 2011, 15, 362-368.	2.8	142
64	Albumins and their processing machinery are hijacked for cyclic peptides in sunflower. Nature Chemical Biology, 2011, 7, 257-259.	3.9	141
65	Cyclotides: From Structure to Function. Chemical Reviews, 2019, 119, 12375-12421.	23.0	141
66	Cyclotides as natural antiâ€HIV agents. Biopolymers, 2008, 90, 51-60.	1.2	140
67	CyBase: a database of cyclic protein sequence and structure. Nucleic Acids Research, 2006, 34, D192-D194.	6.5	137
68	Insecticidal plant cyclotides and related cystine knot toxins. Toxicon, 2007, 49, 561-575.	0.8	137
69	Disulfide Mapping of the Cyclotide Kalata B1. Journal of Biological Chemistry, 2003, 278, 48188-48196.	1.6	136
70	Cyclotides as templates in drug design. Drug Discovery Today, 2010, 15, 57-64.	3.2	133
71	The alpine violet, Viola biflora, is a rich source of cyclotides with potent cytotoxicity. Phytochemistry, 2008, 69, 939-952.	1.4	131
72	Rational design and synthesis of an orally bioavailable peptide guided by NMR amide temperature coefficients. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17504-17509.	3.3	130

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73	Isolation, Structure, and Activity of GID, a Novel Î±4/7-Conotoxin with an Extended N-terminal Sequence. Journal of Biological Chemistry, 2003, 278, 3137-3144.	1.6	129
74	Conotoxins: natural product drug leads. Natural Product Reports, 2009, 26, 526.	5.2	129
75	Cyclic Peptides Arising by Evolutionary Parallelism via Asparaginyl-Endopeptidaseâ€"Mediated Biosynthesis. Plant Cell, 2012, 24, 2765-2778.	3.1	129
76	Oxytocic plant cyclotides as templates for peptide G protein-coupled receptor ligand design. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 21183-21188.	3.3	129
77	Molecular Grafting onto a Stable Framework Yields Novel Cyclic Peptides for the Treatment of Multiple Sclerosis. ACS Chemical Biology, 2014, 9, 156-163.	1.6	128
78	Cyclotides Associate with Leaf Vasculature and Are the Products of a Novel Precursor in Petunia (Solanaceae). Journal of Biological Chemistry, 2012, 287, 27033-27046.	1.6	126
79	Studies on the membrane interactions of the cyclotides kalata B1 and kalata B6 on model membrane systems by surface plasmon resonance. Analytical Biochemistry, 2005, 337, 149-153.	1.1	125
80	Î¸-Defensins Prevent HIV-1 Env-mediated Fusion by Binding gp41 and Blocking 6-Helix Bundle Formation. Journal of Biological Chemistry, 2006, 281, 18787-18792.	1.6	125
81	The Three-dimensional Solution Structure of NaD1, a New Floral Defensin from Nicotiana alata and its Application to a Homology Model of the Crop Defense Protein alfAFP. Journal of Molecular Biology, 2003, 325, 175-188.	2.0	124
82	The Anthelmintic Activity of the Cyclotides: Natural Variants with Enhanced Activity. ChemBioChem, 2008, 9, 1939-1945.	1.3	124
83	Solving the Î±-Conotoxin Folding Problem: Efficient Selenium-Directed On-Resin Generation of More Potent and Stable Nicotinic Acetylcholine Receptor Antagonists. Journal of the American Chemical Society, 2010, 132, 3514-3522.	6.6	124
84	Improving on Nature: Making a Cyclic Heptapeptide Orally Bioavailable. Angewandte Chemie - International Edition, 2014, 53, 12059-12063.	7.2	123
85	Conserved Structural and Sequence Elements Implicated in the Processing of Gene-encoded Circular Proteins. Journal of Biological Chemistry, 2004, 279, 46858-46867.	1.6	122
86	The Synthesis, Structural Characterization, and Receptor Specificity of the Î±-Conotoxin Vc1.1. Journal of Biological Chemistry, 2006, 281, 23254-23263.	1.6	122
87	High-affinity Cyclic Peptide Matriptase Inhibitors. Journal of Biological Chemistry, 2013, 288, 13885-13896.	1.6	122
88	Structural analysis of the carbohydrate moiety of arabinogalactan-proteins from stigmas and styles of Nicotiana alata. Carbohydrate Research, 1995, 277, 67-85.	1.1	119
89	Functional Analysis of the Î±-Defensin Disulfide Array in Mouse Cryptdin-4. Journal of Biological Chemistry, 2004, 279, 44188-44196.	1.6	119
90	A Novel Plant Protein-disulfide Isomerase Involved in the Oxidative Folding of Cystine Knot Defense Proteins. Journal of Biological Chemistry, 2007, 282, 20435-20446.	1.6	119

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91	Isolation and Characterization of Novel Cyclotides from Viola hederaceae. Journal of Biological Chemistry, 2005, 280, 22395-22405.	1.6	117
92	Disulfide-rich macrocyclic peptides as templates in drug design. European Journal of Medicinal Chemistry, 2014, 77, 248-257.	2.6	117
93	Disulfide Folding Pathways of Cystine Knot Proteins. Journal of Biological Chemistry, 2003, 278, 6314-6322.	1.6	116
94	Phosphatidylethanolamine Binding Is a Conserved Feature of Cyclotide-Membrane Interactions. Journal of Biological Chemistry, 2012, 287, 33629-33643.	1.6	115
95	A New Level of Conotoxin Diversity, a Non-native Disulfide Bond Connectivity in Î±-Conotoxin AuIB Reduces Structural Definition but Increases Biological Activity. Journal of Biological Chemistry, 2002, 277, 48849-48857.	1.6	114
96	Solution structure by NMR of circulin A: a macrocyclic knotted peptide having anti-HIV activity 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1999, 285, 333-345.	2.0	113
97	Cyclotides as grafting frameworks for protein engineering and drug design applications. Biopolymers, 2013, 100, 480-491.	1.2	113
98	Linearization of a Naturally Occurring Circular Protein Maintains Structure but Eliminates Hemolytic Activity,. Biochemistry, 2003, 42, 6688-6695.	1.2	110
99	Fmoc-Based Synthesis of Disulfide-Rich Cyclic Peptides. Journal of Organic Chemistry, 2014, 79, 5538-5544.	1.7	110
100	The role of the cyclic peptide backbone in the anti-HIV activity of the cyclotide kalata B1. FEBS Letters, 2004, 574, 69-72.	1.3	108
101	The Cyclotide Fingerprint inOldenlandia affinis: Elucidation of Chemically Modified, Linear and Novel Macrocyclic Peptides. ChemBioChem, 2007, 8, 1001-1011.	1.3	108
102	Kalata B8, a novel antiviral circular protein, exhibits conformational flexibility in the cystine knot motif. Biochemical Journal, 2006, 393, 619-626.	1.7	107
103	Three-Dimensional Solution Structure of Î¼-Conotoxin GIIIB, a Specific Blocker of Skeletal Muscle Sodium Channelsâ€‚â€¡. Biochemistry, 1996, 35, 8824-8835.	1.2	106
104	Discovery and Characterization of a Linear Cyclotide from Viola odorata: Implications for the Processing of Circular Proteins. Journal of Molecular Biology, 2006, 357, 1522-1535.	2.0	106
105	Are Î±9Î±10 Nicotinic Acetylcholine Receptors a Pain Target for Î±-Conotoxins?. Molecular Pharmacology, 2007, 72, 1406-1410.	1.0	106
106	Conformational Flexibility Is a Determinant of Permeability for Cyclosporin. Journal of Physical Chemistry B, 2018, 122, 2261-2276.	1.2	104
107	Plant cyclotides: circular, knotted peptide toxins. Toxicon, 2001, 39, 1809-1813.	0.8	103
108	Tissue-Specific Expression of Head-to-Tail Cyclized Miniproteins in Violaceae and Structure Determination of the Root Cyclotide Viola hederacea root cyclotide1 [W]. Plant Cell, 2004, 16, 2204-2216.	3.1	102

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109	Cyclotides as a basis for drug design. Expert Opinion on Drug Discovery, 2012, 7, 179-194.	2.5	102
110	Magnetization changes induced by stress in a constant applied field. Journal Physics D: Applied Physics, 1970, 3, 1009-1016.	1.3	101
111	Anthelmintic activity of cyclotides: In vitro studies with canine and human hookworms. Acta Tropica, 2009, 109, 163-166.	0.9	100
112	The 1.1 Ã¥ crystal structure of the neuronal acetylcholine receptor antagonist, Î±-conotoxin PnIA from Conus pennaceus. Structure, 1996, 4, 417-423.	1.6	99
113	Acyclic Permutants of Naturally Occurring Cyclic Proteins. Journal of Biological Chemistry, 2000, 275, 19068-19075.	1.6	99
114	Lysine-scanning Mutagenesis Reveals an Amendable Face of the Cyclotide Kalata B1 for the Optimization of Nematocidal Activity. Journal of Biological Chemistry, 2010, 285, 10797-10805.	1.6	99
115	Cyclotides as drug design scaffolds. Current Opinion in Chemical Biology, 2017, 38, 8-16.	2.8	99
116	Molecular basis for the production of cyclic peptides by plant asparaginyl endopeptidases. Nature Communications, 2018, 9, 2411.	5.8	99
117	alpha Conotoxins Nicotinic Acetylcholine Receptor Antagonists as Pharmacological Tools and Potential Drug Leads. Current Medicinal Chemistry, 2001, 8, 327-344.	1.2	98
118	A Consensus Structure for Ï‰-Conotoxins with Different Selectivities for Voltage-sensitive Calcium Channel Subtypes: Comparison of MVIIA, SVIB and SNX-202. Journal of Molecular Biology, 1996, 263, 297-310.	2.0	97
119	Purification and Structural Characterization of a Filamentous, Mucin-like Proteophosphoglycan Secreted by Leishmania Parasites. Journal of Biological Chemistry, 1996, 271, 21583-21596.	1.6	97
120	Conotoxins and their potential pharmaceutical applications. , 1999, 46, 219-234.		97
121	Host-Defense Activities of Cyclotides. Toxins, 2012, 4, 139-156.	1.5	97
122	Cyclic MrIA:Â A Stable and Potent Cyclic Conotoxin with a Novel Topological Fold that Targets the Norepinephrine Transporter. Journal of Medicinal Chemistry, 2006, 49, 6561-6568.	2.9	96
123	The cyclic cystine knot miniprotein MCoTI-II is internalized into cells by macropinocytosis. International Journal of Biochemistry and Cell Biology, 2007, 39, 2252-2264.	1.2	96
124	Combined X-ray and NMR Analysis of the Stability of the Cyclotide Cystine Knot Fold That Underpins Its Insecticidal Activity and Potential Use as a Drug Scaffold. Journal of Biological Chemistry, 2009, 284, 10672-10683.	1.6	96
125	Drug Competition for Thyroxine Binding to Transthyretin (Prealbumin): Comparison with Effects on Thyroxine-Binding Globulin*. Journal of Clinical Endocrinology and Metabolism, 1989, 68, 1141-1147.	1.8	95
126	Discovery, structure, function, and applications of cyclotides: circular proteins from plants. Journal of Experimental Botany, 2016, 67, 4801-4812.	2.4	95

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127	Solution Structure and Novel Insights into the Determinants of the Receptor Specificity of Human Relaxin-3. Journal of Biological Chemistry, 2006, 281, 5845-5851.	1.6	93
128	Chemical Modification of Conotoxins to Improve Stability and Activity. ACS Chemical Biology, 2007, 2, 457-468.	1.6	93
129	Cyclic peptide oral bioavailability: Lessons from the past. Biopolymers, 2016, 106, 901-909.	1.2	93
130	Cell-wall polysaccharides from Australian red algae of the family Solieriaceae (Gigartinales,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td Research, 1997, 299, 229-243.	1.1	92
131	Chemical Re-engineering of Chlorotoxin Improves Bioconjugation Properties for Tumor Imaging and Targeted Therapy. Journal of Medicinal Chemistry, 2011, 54, 782-787.	2.9	91
132	Cloning, synthesis, and characterization of Î±O-conotoxin GeXIVA, a potent Î±9Î±10 nicotinic acetylcholine receptor antagonist. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4026-35.	3.3	91
133	Carbon-13 substituent chemical shifts in the side-chain carbons of aromatic systems: the importance of Ï€-polarization in determining chemical shifts. Journal of the Chemical Society Perkin Transactions II, 1981, , 753-759.	0.9	90
134	Structure of Petunia hybrida Defensin 1, a Novel Plant Defensin with Five Disulfide Bonds. Biochemistry, 2003, 42, 8214-8222.	1.2	90
135	Invited reviewnative chemical ligation applied to the synthesis and bioengineering of circular peptides and proteins. Biopolymers, 2010, 94, 414-422.	1.2	90
136	Naturally occurring circular proteins: distribution, biosynthesis and evolution. Organic and Biomolecular Chemistry, 2010, 8, 5035.	1.5	89
137	Solution structure and proposed binding mechanism of a novel potassium channel toxin Îº-conotoxin PVIIA. Structure, 1997, 5, 1585-1597.	1.6	88
138	Small Molecular Probes for G-Protein-Coupled C5a Receptors:Â Conformationally Constrained Antagonists Derived from the C Terminus of the Human Plasma Protein C5a. Journal of Medicinal Chemistry, 1998, 41, 3417-3425.	2.9	88
139	Total Synthesis of the Analgesic Conotoxin MrVIB through Selenocysteineâ€Assisted Folding. Angewandte Chemie - International Edition, 2011, 50, 6527-6529.	7.2	88
140	Design, Synthesis, Structural and Functional Characterization of Novel Melanocortin Agonists Based on the Cyclotide Kalata B1. Journal of Biological Chemistry, 2012, 287, 40493-40501.	1.6	88
141	Butterfly Pea (Clitoria ternatea), a Cyclotide-Bearing Plant With Applications in Agriculture and Medicine. Frontiers in Plant Science, 2019, 10, 645.	1.7	88
142	Ultraâ€Stable Peptide Scaffolds for Protein Engineeringâ€"Synthesis and Folding of the Circular Cystine Knotted Cyclotide Cycloviolacin O2. ChemBioChem, 2008, 9, 103-113.	1.3	87
143	Design, Synthesis, and Characterization of a Single-Chain Peptide Antagonist for the Relaxin-3 Receptor RXFP3. Journal of the American Chemical Society, 2011, 133, 4965-4974.	6.6	86
144	Peptide Macrocyclization by a Bifunctional Endoprotease. Chemistry and Biology, 2015, 22, 571-582.	6.2	86

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145	Sunflower Trypsin Inhibitor-1. Current Protein and Peptide Science, 2004, 5, 351-364.	0.7	85
146	Interaction of Hoechst 33258 with the minor groove of the A + T-rich DNA duplex d(GGTAATTACC)2 studied in solution by NMR spectroscopy. FEBS Journal, 1993, 211, 437-447.	0.2	84
147	Crystal Structure at 1.1 Ã… Resolution of Î±-Conotoxin PnIB:Â Comparison with Î±-Conotoxins PnIA and GIâ€. Biochemistry, 1997, 36, 11323-11330.	1.2	84
148	Determination of the Î±-Conotoxin Vc1.1 Binding Site on the Î±9Î±10 Nicotinic Acetylcholine Receptor. Journal of Medicinal Chemistry, 2013, 56, 3557-3567.	2.9	84
149	Potential therapeutic applications of the cyclotides and related cystine knot mini-proteins. Expert Opinion on Investigational Drugs, 2007, 16, 595-604.	1.9	83
150	Semienzymatic Cyclization of Disulfide-rich Peptides Using Sortase A. Journal of Biological Chemistry, 2014, 289, 6627-6638.	1.6	83
151	Mechanisms of bacterial membrane permeabilization by crotalicidin (Ctn) and its fragment Ctn(15â€"34), antimicrobial peptides from rattlesnake venom. Journal of Biological Chemistry, 2018, 293, 1536-1549.	1.6	83
152	Variations in Cyclotide Expression inViolaSpecies. Journal of Natural Products, 2004, 67, 806-810.	1.5	82
153	A Novel Conotoxin Inhibitor of Kv1.6 Channel and nAChR Subtypes Defines a New Superfamily of Conotoxins,. Biochemistry, 2006, 45, 8331-8340.	1.2	81
154	Î±-Conotoxin ImI Incorporating Stable Cystathionine Bridges Maintains Full Potency and Identical Three-Dimensional Structure. Journal of the American Chemical Society, 2011, 133, 15866-15869.	6.6	81
155	Structural characterisation of xyloglucan secreted by suspension-cultured cells of Nicotiana plumbaginifolia. Carbohydrate Research, 1996, 293, 147-172.	1.1	80
156	Structure-activity relationships of Ï‰-conotoxins MVIIA, MVIIC and 14 loop splice hybrids at N and P/Q-type calcium channels 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1999, 289, 1405-1421.	2.0	80
157	Structures of Î¼O-conotoxins from Conus marmoreus. Journal of Biological Chemistry, 2004, 279, 25774-25782.	1.6	80
158	Circular proteins and mechanisms of cyclization. Biopolymers, 2010, 94, 573-583.	1.2	79
159	Enzymatic Cyclization of a Potent Bowman-Birk Protease Inhibitor, Sunflower Trypsin Inhibitor-1, and Solution Structure of an Acyclic Precursor Peptide. Journal of Biological Chemistry, 2003, 278, 21782-21789.	1.6	78
160	Processing of a 22 kDa Precursor Protein to Produce the Circular Protein Tricyclon A. Structure, 2005, 13, 691-701.	1.6	78
161	Scanning Mutagenesis of Î±-Conotoxin Vc1.1 Reveals Residues Crucial for Activity at the Î±9Î±10 Nicotinic Acetylcholine Receptor. Journal of Biological Chemistry, 2009, 284, 20275-20284.	1.6	78
162	Identification and Structural Characterization of Novel Cyclotide with Activity against an Insect Pest of Sugar Cane. Journal of Biological Chemistry, 2012, 287, 134-147.	1.6	78

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163	Blockade of Neuronal Î±7-nAChR by Î±-Conotoxin ImI Explained by Computational Scanning and Energy Calculations. PLoS Computational Biology, 2011, 7, e1002011.	1.5	77
164	Î±-Conotoxin Vc1.1 inhibits human dorsal root ganglion neuroexcitability and mouse colonic nociception via GABA_Breceptors. Gut, 2017, 66, 1083-1094.	6.1	77
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