Conan K Wang

List of Publications by Year
in descending order

90 papers	4,238 citations	101543 36 h-index	118850 62 g-index
95 all docs	95 docs citations	95 times ranked	3847 citing authors

#	Article	IF	Citations
1	CyBase: a database of cyclic protein sequences and structures, with applications in protein discovery and engineering. Nucleic Acids Research, 2007, 36, D206-D210.	14.5	242
2	Distribution and Evolution of Circular Miniproteins in Flowering Plants. Plant Cell, 2008, 20, 2471-2483.	6.6	234
3	ConoServer, a database for conopeptide sequences and structures. Bioinformatics, 2008, 24, 445-446.	4.1	193
4	Designing macrocyclic disulfide-rich peptides for biotechnological applications. Nature Chemical Biology, 2018, 14, 417-427.	8.0	174
5	Anti-HIV Cyclotides from the Chinese Medicinal Herb Viola yedoensis. Journal of Natural Products, 2008, 71, 47-52.	3.0	163
6	Alanine Scanning Mutagenesis of the Prototypic Cyclotide Reveals a Cluster of Residues Essential for Bioactivity. Journal of Biological Chemistry, 2008, 283, 9805-9813.	3.4	153
7	Cyclotides as natural antiâ€HIV agents. Biopolymers, 2008, 90, 51-60.	2.4	140
8	CyBase: a database of cyclic protein sequence and structure. Nucleic Acids Research, 2006, 34, D192-D194.	14.5	137
9	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.	7.1	130
10	Molecular Grafting onto a Stable Framework Yields Novel Cyclic Peptides for the Treatment of Multiple Sclerosis. ACS Chemical Biology, 2014, 9, 156-163.	3.4	128
11	The Anthelmintic Activity of the Cyclotides: Natural Variants with Enhanced Activity. ChemBioChem, 2008, 9, 1939-1945.	2.6	124
12	Disulfide-rich macrocyclic peptides as templates in drug design. European Journal of Medicinal Chemistry, 2014, 77, 248-257.	5.5	117
13	Conformational Flexibility Is a Determinant of Permeability for Cyclosporin. Journal of Physical Chemistry B, 2018, 122, 2261-2276.	2.6	104
14	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.	3.4	96
15	Cyclic peptide oral bioavailability: Lessons from the past. Biopolymers, 2016, 106, 901-909.	2.4	93
16	Extensions of PDZ domains as important structural and functional elements. Protein and Cell, 2010, 1, 737-751.	11.0	82
17	Exploring experimental and computational markers of cyclic peptides: Charting islands of permeability. European Journal of Medicinal Chemistry, 2015, 97, 202-213.	5.5	76
18	Despite a Conserved Cystine Knot Motif, Different Cyclotides Have Different Membrane Binding Modes. Biophysical Journal, 2009, 97, 1471-1481.	0.5	74

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19	Isolation and characterization of cytotoxic cyclotides from Viola tricolor. Peptides, 2010, 31, 1434-1440.	2.4	65
20	Chlorotoxin: Structure, activity, and potential uses in cancer therapy. Biopolymers, 2016, 106, 25-36.	2.4	65
21	Cycloviolacin H4, a Hydrophobic Cyclotide fromViola hederaceae. Journal of Natural Products, 2006, 69, 23-28.	3.0	61
22	Anticancer and Toxic Properties of Cyclotides are Dependent on Phosphatidylethanolamine Phospholipid Targeting. ChemBioChem, 2014, 15, 1956-1965.	2.6	60
23	Racemic and Quasiâ€Racemic Xâ€ray Structures of Cyclic Disulfideâ€Rich Peptide Drug Scaffolds. Angewandte Chemie - International Edition, 2014, 53, 11236-11241.	13.8	59
24	Design of substrate-based BCR-ABL kinase inhibitors using the cyclotide scaffold. Scientific Reports, 2015, 5, 12974.	3.3	58
25	Cyclotides Insert into Lipid Bilayers to Form Membrane Pores and Destabilize the Membrane through Hydrophobic and Phosphoethanolamine-specific Interactions. Journal of Biological Chemistry, 2012, 287, 43884-43898.	3.4	56
26	Mirror Images of Antimicrobial Peptides Provide Reflections on Their Functions and Amyloidogenic Properties. Journal of the American Chemical Society, 2016, 138, 5706-5713.	13.7	55
27	Structural parameters modulating the cellular uptake of disulfide-rich cyclic cell-penetrating peptides: MCoTI-II and SFTI-1. European Journal of Medicinal Chemistry, 2014, 88, 10-18.	5.5	52
28	Improving the Selectivity of Engineered Protease Inhibitors: Optimizing the P2 Prime Residue Using a Versatile Cyclic Peptide Library. Journal of Medicinal Chemistry, 2015, 58, 8257-8268.	6.4	51
29	Using the MCoTI-II Cyclotide Scaffold To Design a Stable Cyclic Peptide Antagonist of SET, a Protein Overexpressed in Human Cancer. Biochemistry, 2016, 55, 396-405.	2.5	51
30	Design of Potent and Selective Cathepsin G Inhibitors Based on the Sunflower Trypsin Inhibitor-1 Scaffold. Journal of Medicinal Chemistry, 2017, 60, 658-667.	6.4	48
31	Cyclotides are a component of the innate defense of Oldenlandia affinis. Biopolymers, 2010, 94, 635-646.	2.4	45
32	The Cyclic Cystine Ladder of Thetaâ€Đefensins as a Stable, Bifunctional Scaffold: A Proofâ€ofâ€Concept Study Using the Integrinâ€Binding RGD Motif.. ChemBioChem, 2014, 15, 451-459.	2.6	45
33	Isolation and Characterization of Peptides from Momordica cochinchinensis Seeds. Journal of Natural Products, 2009, 72, 1453-1458.	3.0	42
34	Inhibition of tau aggregation using a naturally-occurring cyclic peptide scaffold. European Journal of Medicinal Chemistry, 2016, 109, 342-349.	5.5	42
35	The Role of Conserved Glu Residue on Cyclotide Stability and Activity: A Structural and Functional Study of Kalata B12, a Naturally Occurring Glu to Asp Mutant. Biochemistry, 2011, 50, 4077-4086.	2.5	39
36	Is the Mirror Image a True Reflection? Intrinsic Membrane Chirality Modulates Peptide Binding. Journal of the American Chemical Society, 2019, 141, 20460-20469.	13.7	39

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37	Promiscuity of Carbonic Anhydrase II. Unexpected Ester Hydrolysis of Carbohydrate-Based Sulfamate Inhibitors. Journal of the American Chemical Society, 2011, 133, 18452-18462.	13.7	38
38	Effects of Cyclization on Peptide Backbone Dynamics. Journal of Physical Chemistry B, 2015, 119, 15821-15830.	2.6	36
39	Translational Diffusion of Cyclic Peptides Measured Using Pulsed-Field Gradient NMR. Journal of Physical Chemistry B, 2014, 118, 11129-11136.	2.6	35
40	Phosphorylation of CRN2 by CK2 regulates F-actin and Arp2/3 interaction and inhibits cell migration. Scientific Reports, 2012, 2, 241.	3.3	34
41	Lysine-rich Cyclotides: A New Subclass of Circular Knotted Proteins from Violaceae. ACS Chemical Biology, 2015, 10, 2491-2500.	3.4	34
42	EGFâ€like and Other Disulfideâ€rich Microdomains as Therapeutic Scaffolds. Angewandte Chemie - International Edition, 2020, 59, 11218-11232.	13.8	34
43	DMAN: a Java tool for analysis of multi-well differential scanning fluorimetry experiments. Bioinformatics, 2012, 28, 439-440.	4.1	33
44	Hookworm SCP/TAPS protein structureâ€"A key to understanding hostâ€"parasite interactions and developing new interventions. Biotechnology Advances, 2012, 30, 652-657.	11.7	31
45	Atypical (RIO) protein kinases from Haemonchus contortus â€" Promise as new targets for nematocidal drugs. Biotechnology Advances, 2011, 29, 338-350.	11.7	28
46	Application and Structural Analysis of Triazoleâ€Bridged Disulfide Mimetics in Cyclic Peptides. Angewandte Chemie - International Edition, 2020, 59, 11273-11277.	13.8	27
47	The role of disulfide bonds in structure and activity of chlorotoxin. Future Medicinal Chemistry, 2014, 6, 1617-1628.	2.3	26
48	Isolation and Characterization of Bioactive Cyclotides from Viola labridorica. Helvetica Chimica Acta, 2010, 93, 2287-2295.	1.6	24
49	Insecticidal spider toxins are high affinity positive allosteric modulators of the nicotinic acetylcholine receptor. FEBS Letters, 2019, 593, 1336-1350.	2.8	23
50	An environmentally sustainable biomimetic production of cyclic disulfide-rich peptides. Green Chemistry, 2020, 22, 5002-5016.	9.0	23
51	The emerging landscape of peptide-based inhibitors of PCSK9. Atherosclerosis, 2021, 330, 52-60.	0.8	23
52	Insights into the Molecular Flexibility of Î¸-Defensins by NMR Relaxation Analysis. Journal of Physical Chemistry B, 2014, 118, 14257-14266.	2.6	22
53	Efficient enzymatic cyclization of an inhibitory cystine knotâ€containing peptide. Biotechnology and Bioengineering, 2016, 113, 2202-2212.	3.3	22
54	Rational Design of Potent Peptide Inhibitors of the PD-1:PD-L1 Interaction for Cancer Immunotherapy. Journal of the American Chemical Society, 2021, 143, 18536-18547.	13.7	22

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55	SBAL: a practical tool to generate and edit structure-based amino acid sequence alignments. Bioinformatics, 2012, 28, 1026-1027.	4.1	21
56	Alpha-1 Giardin is an Annexin with Highly Unusual Calcium-Regulated Mechanisms. Journal of Molecular Biology, 2012, 423, 169-181.	4.2	21
57	Yeast-based bioproduction of disulfide-rich peptides and their cyclization via asparaginyl endopeptidases. Nature Protocols, 2021, 16, 1740-1760.	12.0	21
58	Cyclotide Isolation and Characterization. Methods in Enzymology, 2012, 516, 37-62.	1.0	19
59	Biodistribution of the cyclotide MCoTIâ€II, a cyclic disulfideâ€rich peptide drug scaffold. Journal of Peptide Science, 2016, 22, 305-310.	1.4	16
60	Synthesis, Racemic X-ray Crystallographic, and Permeability Studies of Bioactive Orbitides from Jatropha Species. Journal of Natural Products, 2018, 81, 2436-2445.	3.0	16
61	Backbone cyclization of analgesic conotoxin GeXIVA facilitates direct folding of the ribbon isomer. Journal of Biological Chemistry, 2017, 292, 17101-17112.	3.4	15
62	Cellular Uptake and Cytosolic Delivery of a Cyclic Cystine Knot Scaffold. ACS Chemical Biology, 2020, 15, 1650-1661.	3.4	14
63	Bioactive Cyclization Optimizes the Affinity of a Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) Peptide Inhibitor. Journal of Medicinal Chemistry, 2021, 64, 2523-2533.	6.4	14
64	Insights into the Membrane Interactions of the Saposin-Like Proteins Na-SLP-1 and Ac-SLP-1 from Human and Dog Hookworm. PLoS ONE, 2011, 6, e25369.	2.5	14
65	Anchor Residues Guide Form and Function in Grafted Peptides. Angewandte Chemie - International Edition, 2019, 58, 7652-7656.	13.8	13
66	Specific interaction to PIP2 increases the kinetic rate of membrane binding of VILIPs, a subfamily of Neuronal Calcium Sensors (NCS) proteins. Biochimica Et Biophysica Acta - Biomembranes, 2014, 1838, 2698-2707.	2.6	12
67	Lysine to arginine mutagenesis of chlorotoxin enhances its cellular uptake. Biopolymers, 2017, 108, e23025.	2.4	12
68	Divalent Cations and Redox Conditions Regulate the Molecular Structure and Function of Visinin-Like Protein-1. PLoS ONE, 2011, 6, e26793.	2.5	11
69	Cyclotide Structures Revealed by NMR, with a Little Help from Xâ€ray Crystallography. ChemBioChem, 2020, 21, 3463-3475.	2.6	11
70	An Integrated Molecular Grafting Approach for the Design of Keap1-Targeted Peptide Inhibitors. ACS Chemical Biology, 2021, 16, 1276-1287.	3.4	11
71	Merging structural biology with chemical biology: Structural Chemistry at Eskitis. Structural Chemistry, 2010, 21, 1117-1129.	2.0	10
72	Calcium-Mediated Allostery of the EGF Fold. ACS Chemical Biology, 2018, 13, 1659-1667.	3.4	10

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73	Enabling Efficient Folding and High-Resolution Crystallographic Analysis of Bracelet Cyclotides. Molecules, 2021, 26, 5554.	3.8	10
74	Comparison of VILIP-1 and VILIP-3 Binding to Phospholipid Monolayers. PLoS ONE, 2014, 9, e93948.	2.5	9
75	Application and Structural Analysis of Triazoleâ€Bridged Disulfide Mimetics in Cyclic Peptides. Angewandte Chemie, 2020, 132, 11369-11373.	2.0	7
76	Structure-activity analysis of truncated albumin-binding domains suggests new lead constructs for potential therapeutic delivery. Journal of Biological Chemistry, 2020, 295, 12143-12152.	3.4	6
77	Engineered EGF-A Peptides with Improved Affinity for Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9). ACS Chemical Biology, 2021, 16, 429-439.	3.4	5
78	Linking molecular evolution to molecular grafting. Journal of Biological Chemistry, 2021, 296, 100425.	3.4	5
79	Toward Structure Determination of Disulfide-Rich Peptides Using Chemical Shift-Based Methods. Journal of Physical Chemistry B, 2019, 123, 1903-1912.	2.6	4
80	Increased Valency Improves Inhibitory Activity of Peptides Targeting Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9). ChemBioChem, 2021, 22, 2154-2160.	2.6	4
81	Mutagenesis of bracelet cyclotide hyen D reveals functionally and structurally critical residues for membrane binding and cytotoxicity. Journal of Biological Chemistry, 2022, 298, 101822.	3.4	4
82	Native peptide folding dominates over stereoelectronic effects of prolyl hydroxylation in loop 5 of the macrocyclic peptide kalata B1. Tetrahedron, 2014, 70, 7669-7674.	1.9	2
83	Anchor Residues Guide Form and Function in Grafted Peptides. Angewandte Chemie, 2019, 131, 7734-7738.	2.0	2
84	EGFâ€artige und andere disulfidreiche MikrodomÃnen als therapeutische MolekÃ¼lgerÃ¼ste. Angewandte Chemie, 2020, 132, 11314-11328.	2.0	2
85	NMRDyn: A Program for NMR Relaxation Studies of Protein Association. PLoS ONE, 2008, 3, e3820.	2.5	1
86	An integrated Java tool for generating amino acid sequence alignments with mapped secondary structure elements. 3 Biotech, 2015, 5, 87-92.	2.2	1
87	Forward for ICCP2015 issue of Biopolymers Peptide Science. Biopolymers, 2016, 106, 772-773.	2.4	0
88	Innentitelbild: Application and Structural Analysis of Triazoleâ€Bridged Disulfide Mimetics in Cyclic Peptides (Angew. Chem. 28/2020). Angewandte Chemie, 2020, 132, 11258-11258.	2.0	0
89	NMR Relaxation Analysis of Pharmaceutically Active Peptides. , 2017, , 1-24.		0
90	NMR Relaxation Analysis of Pharmaceutically Active Peptides. , 2018, , 1997-2020.		0