

Conan K Wang

List of Publications by Year in descending order

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90
papers

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citations

101543

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95
docs citations

95
times ranked

3847
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutagenesis of bracelet cyclotide hyen D reveals functionally and structurally critical residues for membrane binding and cytotoxicity. <i>Journal of Biological Chemistry</i> , 2022, 298, 101822.	3.4	4
2	Bioactive Cyclization Optimizes the Affinity of a Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) Peptide Inhibitor. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 2523-2533.	6.4	14
3	Engineered EGF-A Peptides with Improved Affinity for Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9). <i>ACS Chemical Biology</i> , 2021, 16, 429-439.	3.4	5
4	Yeast-based bioproduction of disulfide-rich peptides and their cyclization via asparaginyl endopeptidases. <i>Nature Protocols</i> , 2021, 16, 1740-1760.	12.0	21
5	Increased Valency Improves Inhibitory Activity of Peptides Targeting Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9). <i>ChemBioChem</i> , 2021, 22, 2154-2160.	2.6	4
6	An Integrated Molecular Grafting Approach for the Design of Keap1-Targeted Peptide Inhibitors. <i>ACS Chemical Biology</i> , 2021, 16, 1276-1287.	3.4	11
7	The emerging landscape of peptide-based inhibitors of PCSK9. <i>Atherosclerosis</i> , 2021, 330, 52-60.	0.8	23
8	Enabling Efficient Folding and High-Resolution Crystallographic Analysis of Bracelet Cyclotides. <i>Molecules</i> , 2021, 26, 5554.	3.8	10
9	Linking molecular evolution to molecular grafting. <i>Journal of Biological Chemistry</i> , 2021, 296, 100425.	3.4	5
10	Rational Design of Potent Peptide Inhibitors of the PD-1:PD-L1 Interaction for Cancer Immunotherapy. <i>Journal of the American Chemical Society</i> , 2021, 143, 18536-18547.	13.7	22
11	EGF-like and Other Disulfide-rich Microdomains as Therapeutic Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11218-11232.	13.8	34
12	Innentitelbild: Application and Structural Analysis of Triazole-bridged Disulfide Mimetics in Cyclic Peptides (<i>Angew. Chem.</i> 28/2020). <i>Angewandte Chemie</i> , 2020, 132, 11258-11258.	2.0	0
13	EGF-artige und andere disulfidreiche Mikrodomänen als therapeutische Molekülgerüste. <i>Angewandte Chemie</i> , 2020, 132, 11314-11328.	2.0	2
14	An environmentally sustainable biomimetic production of cyclic disulfide-rich peptides. <i>Green Chemistry</i> , 2020, 22, 5002-5016.	9.0	23
15	Structure-activity analysis of truncated albumin-binding domains suggests new lead constructs for potential therapeutic delivery. <i>Journal of Biological Chemistry</i> , 2020, 295, 12143-12152.	3.4	6
16	Cyclotide Structures Revealed by NMR, with a Little Help from X-ray Crystallography. <i>ChemBioChem</i> , 2020, 21, 3463-3475.	2.6	11
17	Application and Structural Analysis of Triazole-bridged Disulfide Mimetics in Cyclic Peptides. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11273-11277.	13.8	27
18	Cellular Uptake and Cytosolic Delivery of a Cyclic Cystine Knot Scaffold. <i>ACS Chemical Biology</i> , 2020, 15, 1650-1661.	3.4	14

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19	Application and Structural Analysis of Triazole-Bridged Disulfide Mimetics in Cyclic Peptides. <i>Angewandte Chemie</i> , 2020, 132, 11369-11373.	2.0	7
20	Anchor Residues Guide Form and Function in Grafted Peptides. <i>Angewandte Chemie</i> , 2019, 131, 7734-7738.	2.0	2
21	Insecticidal spider toxins are high affinity positive allosteric modulators of the nicotinic acetylcholine receptor. <i>FEBS Letters</i> , 2019, 593, 1336-1350.	2.8	23
22	Anchor Residues Guide Form and Function in Grafted Peptides. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7652-7656.	13.8	13
23	Toward Structure Determination of Disulfide-Rich Peptides Using Chemical Shift-Based Methods. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1903-1912.	2.6	4
24	Is the Mirror Image a True Reflection? Intrinsic Membrane Chirality Modulates Peptide Binding. <i>Journal of the American Chemical Society</i> , 2019, 141, 20460-20469.	13.7	39
25	Designing macrocyclic disulfide-rich peptides for biotechnological applications. <i>Nature Chemical Biology</i> , 2018, 14, 417-427.	8.0	174
26	Conformational Flexibility Is a Determinant of Permeability for Cyclosporin. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2261-2276.	2.6	104
27	Calcium-Mediated Allostery of the EGF Fold. <i>ACS Chemical Biology</i> , 2018, 13, 1659-1667.	3.4	10
28	Synthesis, Racemic X-ray Crystallographic, and Permeability Studies of Bioactive Orbitides from <i>Jatropha</i> Species. <i>Journal of Natural Products</i> , 2018, 81, 2436-2445.	3.0	16
29	NMR Relaxation Analysis of Pharmaceutically Active Peptides. , 2018, , 1997-2020.		0
30	Lysine to arginine mutagenesis of chlorotoxin enhances its cellular uptake. <i>Biopolymers</i> , 2017, 108, e23025.	2.4	12
31	Design of Potent and Selective Cathepsin G Inhibitors Based on the Sunflower Trypsin Inhibitor-1 Scaffold. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 658-667.	6.4	48
32	Backbone cyclization of analgesic conotoxin GeXIVA facilitates direct folding of the ribbon isomer. <i>Journal of Biological Chemistry</i> , 2017, 292, 17101-17112.	3.4	15
33	NMR Relaxation Analysis of Pharmaceutically Active Peptides. , 2017, , 1-24.		0
34	Biodistribution of the cyclotide MCoTI-II, a cyclic disulfide-rich peptide drug scaffold. <i>Journal of Peptide Science</i> , 2016, 22, 305-310.	1.4	16
35	Chlorotoxin: Structure, activity, and potential uses in cancer therapy. <i>Biopolymers</i> , 2016, 106, 25-36.	2.4	65
36	Mirror Images of Antimicrobial Peptides Provide Reflections on Their Functions and Amyloidogenic Properties. <i>Journal of the American Chemical Society</i> , 2016, 138, 5706-5713.	13.7	55

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37	Forward for ICCP2015 issue of Biopolymers Peptide Science. <i>Biopolymers</i> , 2016, 106, 772-773.	2.4	0
38	Efficient enzymatic cyclization of an inhibitory cystine knot-containing peptide. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2202-2212.	3.3	22
39	Cyclic peptide oral bioavailability: Lessons from the past. <i>Biopolymers</i> , 2016, 106, 901-909.	2.4	93
40	Using the MCoTI-II Cyclotide Scaffold To Design a Stable Cyclic Peptide Antagonist of SET, a Protein Overexpressed in Human Cancer. <i>Biochemistry</i> , 2016, 55, 396-405.	2.5	51
41	Inhibition of tau aggregation using a naturally-occurring cyclic peptide scaffold. <i>European Journal of Medicinal Chemistry</i> , 2016, 109, 342-349.	5.5	42
42	Effects of Cyclization on Peptide Backbone Dynamics. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15821-15830.	2.6	36
43	Exploring experimental and computational markers of cyclic peptides: Charting islands of permeability. <i>European Journal of Medicinal Chemistry</i> , 2015, 97, 202-213.	5.5	76
44	Improving the Selectivity of Engineered Protease Inhibitors: Optimizing the P2 Prime Residue Using a Versatile Cyclic Peptide Library. <i>Journal of Medicinal Chemistry</i> , 2015, 58, 8257-8268.	6.4	51
45	Design of substrate-based BCR-ABL kinase inhibitors using the cyclotide scaffold. <i>Scientific Reports</i> , 2015, 5, 12974.	3.3	58
46	Lysine-rich Cyclotides: A New Subclass of Circular Knotted Proteins from Violaceae. <i>ACS Chemical Biology</i> , 2015, 10, 2491-2500.	3.4	34
47	An integrated Java tool for generating amino acid sequence alignments with mapped secondary structure elements. <i>3 Biotech</i> , 2015, 5, 87-92.	2.2	1
48	Comparison of VILIP-1 and VILIP-3 Binding to Phospholipid Monolayers. <i>PLoS ONE</i> , 2014, 9, e93948.	2.5	9
49	The role of disulfide bonds in structure and activity of chlorotoxin. <i>Future Medicinal Chemistry</i> , 2014, 6, 1617-1628.	2.3	26
50	Insights into the Molecular Flexibility of β -Defensins by NMR Relaxation Analysis. <i>Journal of Physical Chemistry B</i> , 2014, 118, 14257-14266.	2.6	22
51	Rational design and synthesis of an orally bioavailable peptide guided by NMR amide temperature coefficients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 17504-17509.	7.1	130
52	Structural parameters modulating the cellular uptake of disulfide-rich cyclic cell-penetrating peptides: MCoTI-II and SFTI-1. <i>European Journal of Medicinal Chemistry</i> , 2014, 88, 10-18.	5.5	52
53	Racemic and Quasi-Racemic X-ray Structures of Cyclic Disulfide-Rich Peptide Drug Scaffolds. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11236-11241.	13.8	59
54	Molecular Grafting onto a Stable Framework Yields Novel Cyclic Peptides for the Treatment of Multiple Sclerosis. <i>ACS Chemical Biology</i> , 2014, 9, 156-163.	3.4	128

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55	Specific interaction to PIP2 increases the kinetic rate of membrane binding of VILIPs, a subfamily of Neuronal Calcium Sensors (NCS) proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2698-2707.	2.6	12
56	Native peptide folding dominates over stereoelectronic effects of prolyl hydroxylation in loop 5 of the macrocyclic peptide kalata B1. <i>Tetrahedron</i> , 2014, 70, 7669-7674.	1.9	2
57	The Cyclic Cystine Ladder of Theta-Defensins as a Stable, Bifunctional Scaffold: A Proof-of-Concept Study Using the Integrin-Binding RGD Motif.. <i>ChemBioChem</i> , 2014, 15, 451-459.	2.6	45
58	Anticancer and Toxic Properties of Cyclotides are Dependent on Phosphatidylethanolamine Phospholipid Targeting. <i>ChemBioChem</i> , 2014, 15, 1956-1965.	2.6	60
59	Translational Diffusion of Cyclic Peptides Measured Using Pulsed-Field Gradient NMR. <i>Journal of Physical Chemistry B</i> , 2014, 118, 11129-11136.	2.6	35
60	Disulfide-rich macrocyclic peptides as templates in drug design. <i>European Journal of Medicinal Chemistry</i> , 2014, 77, 248-257.	5.5	117
61	SBAL: a practical tool to generate and edit structure-based amino acid sequence alignments. <i>Bioinformatics</i> , 2012, 28, 1026-1027.	4.1	21
62	Phosphorylation of CRN2 by CK2 regulates F-actin and Arp2/3 interaction and inhibits cell migration. <i>Scientific Reports</i> , 2012, 2, 241.	3.3	34
63	DMAN: a Java tool for analysis of multi-well differential scanning fluorimetry experiments. <i>Bioinformatics</i> , 2012, 28, 439-440.	4.1	33
64	Cyclotides Insert into Lipid Bilayers to Form Membrane Pores and Destabilize the Membrane through Hydrophobic and Phosphoethanolamine-specific Interactions. <i>Journal of Biological Chemistry</i> , 2012, 287, 43884-43898.	3.4	56
65	Alpha-1 Giardin is an Annexin with Highly Unusual Calcium-Regulated Mechanisms. <i>Journal of Molecular Biology</i> , 2012, 423, 169-181.	4.2	21
66	Cyclotide Isolation and Characterization. <i>Methods in Enzymology</i> , 2012, 516, 37-62.	1.0	19
67	Hookworm SCP/TAPS protein structure—A key to understanding host-parasite interactions and developing new interventions. <i>Biotechnology Advances</i> , 2012, 30, 652-657.	11.7	31
68	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. <i>Biochemistry</i> , 2011, 50, 4077-4086.	2.5	39
69	Divalent Cations and Redox Conditions Regulate the Molecular Structure and Function of Visinin-Like Protein-1. <i>PLoS ONE</i> , 2011, 6, e26793.	2.5	11
70	Atypical (RIO) protein kinases from <i>Haemonchus contortus</i> — Promise as new targets for nematocidal drugs. <i>Biotechnology Advances</i> , 2011, 29, 338-350.	11.7	28
71	Promiscuity of Carbonic Anhydrase II. Unexpected Ester Hydrolysis of Carbohydrate-Based Sulfamate Inhibitors. <i>Journal of the American Chemical Society</i> , 2011, 133, 18452-18462.	13.7	38
72	Insights into the Membrane Interactions of the Saposin-Like Proteins Na-SLP-1 and Ac-SLP-1 from Human and Dog Hookworm. <i>PLoS ONE</i> , 2011, 6, e25369.	2.5	14

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73	Extensions of PDZ domains as important structural and functional elements. <i>Protein and Cell</i> , 2010, 1, 737-751.	11.0	82
74	Merging structural biology with chemical biology: Structural Chemistry at Eskitis. <i>Structural Chemistry</i> , 2010, 21, 1117-1129.	2.0	10
75	Isolation and Characterization of Bioactive Cyclotides from <i>Viola labridorica</i> . <i>Helvetica Chimica Acta</i> , 2010, 93, 2287-2295.	1.6	24
76	Cyclotides are a component of the innate defense of <i>Oldenlandia affinis</i> . <i>Biopolymers</i> , 2010, 94, 635-646.	2.4	45
77	Isolation and characterization of cytotoxic cyclotides from <i>Viola tricolor</i> . <i>Peptides</i> , 2010, 31, 1434-1440.	2.4	65
78	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. <i>Journal of Biological Chemistry</i> , 2009, 284, 10672-10683.	3.4	96
79	Isolation and Characterization of Peptides from <i>Momordica cochinchinensis</i> Seeds. <i>Journal of Natural Products</i> , 2009, 72, 1453-1458.	3.0	42
80	Despite a Conserved Cystine Knot Motif, Different Cyclotides Have Different Membrane Binding Modes. <i>Biophysical Journal</i> , 2009, 97, 1471-1481.	0.5	74
81	The Anthelmintic Activity of the Cyclotides: Natural Variants with Enhanced Activity. <i>ChemBioChem</i> , 2008, 9, 1939-1945.	2.6	124
82	Cyclotides as natural anti-HIV agents. <i>Biopolymers</i> , 2008, 90, 51-60.	2.4	140
83	Anti-HIV Cyclotides from the Chinese Medicinal Herb <i>Viola yedoensis</i> . <i>Journal of Natural Products</i> , 2008, 71, 47-52.	3.0	163
84	Alanine Scanning Mutagenesis of the Prototypic Cyclotide Reveals a Cluster of Residues Essential for Bioactivity. <i>Journal of Biological Chemistry</i> , 2008, 283, 9805-9813.	3.4	153
85	Distribution and Evolution of Circular Miniproteins in Flowering Plants. <i>Plant Cell</i> , 2008, 20, 2471-2483.	6.6	234
86	ConoServer, a database for conopeptide sequences and structures. <i>Bioinformatics</i> , 2008, 24, 445-446.	4.1	193
87	NMRDYN: A Program for NMR Relaxation Studies of Protein Association. <i>PLoS ONE</i> , 2008, 3, e3820.	2.5	1
88	CyBase: a database of cyclic protein sequences and structures, with applications in protein discovery and engineering. <i>Nucleic Acids Research</i> , 2007, 36, D206-D210.	14.5	242
89	Cycloviolacin H4, a Hydrophobic Cyclotide from <i>Viola hederaceae</i> . <i>Journal of Natural Products</i> , 2006, 69, 23-28.	3.0	61
90	CyBase: a database of cyclic protein sequence and structure. <i>Nucleic Acids Research</i> , 2006, 34, D192-D194.	14.5	137