

R Nagaraj

List of Publications by Year in descending order

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50
papers

2,431
citations

201674

27
h-index

206112

48
g-index

52
all docs

52
docs citations

52
times ranked

1861
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of antimicrobial peptides with biological and model membranes: structural and charge requirements for activity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999, 1462, 29-54.	2.6	295
2	Cell-lytic and antibacterial peptides that act by perturbing the barrier function of membranes: facets of their conformational features, structure-function correlations and membrane-perturbing abilities. <i>BBA - Biomembranes</i> , 1994, 1197, 109-131.	8.0	229
3	Stereochemically constrained linear peptides. Conformations of peptides containing .alpha.-aminoisobutyric acid. <i>Journal of the American Chemical Society</i> , 1979, 101, 16-20.	13.7	137
4	Infrared studies on the conformation of synthetic alamethicin fragments and model peptides containing .alpha.-aminoisobutyric acid. <i>Biochemistry</i> , 1980, 19, 425-431.	2.5	116
5	Requirements for antibacterial and hemolytic activities in the bovine neutrophil derived 13-residue peptide indolicidin. <i>FEBS Letters</i> , 1996, 395, 48-52.	2.8	110
6	Tigerinins: Novel Antimicrobial Peptides from the Indian Frog <i>Rana tigerina</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 2701-2707.	3.4	99
7	Host-defense Antimicrobial Peptides: Importance of Structure for Activity. <i>Current Pharmaceutical Design</i> , 2002, 8, 727-742.	1.9	96
8	The crystal and molecular structure of the amino terminal tetrapeptide of alamethicin. A novel 310 helical conformation. <i>Biochemical and Biophysical Research Communications</i> , 1977, 79, 292-298.	2.1	94
9	Synthesis and Conformational Studies of Peptidomimetics Containing Furanoid Sugar Amino Acids and a Sugar Diacid. <i>Journal of Organic Chemistry</i> , 2000, 65, 6441-6457.	3.2	92
10	Folded Conformation in Peptides Containing Furanoid Sugar Amino Acids. <i>Journal of the American Chemical Society</i> , 1998, 120, 12962-12963.	13.7	84
11	Biological activities of C-terminal 15-residue synthetic fragment of melittin: design of an analog with improved antibacterial activity. <i>FEBS Letters</i> , 1999, 448, 62-66.	2.8	79
12	Crystal and molecular structure of benzyloxycarbonyl-?-aminoisobutyryl-L-prolyl methylamide: The observation of an X ₂ -Pro ₃ Type III ?-Turn. <i>Biopolymers</i> , 1979, 18, 1635-1646.	2.4	70
13	Conformations of synthetic alamethicin fragments. Evidence for 310 helical folding from 270-MHz hydrogen-1 nuclear magnetic resonance and circular dichroism studies. <i>Biochemistry</i> , 1981, 20, 2828-2835.	2.5	70
14	Antibacterial and Hemolytic Activities of Single Tryptophan Analogs of Indolicidin. <i>Biochemical and Biophysical Research Communications</i> , 2000, 274, 714-716.	2.1	62
15	Solution phase synthesis of alamethicin I. <i>Tetrahedron</i> , 1981, 37, 1263-1270.	1.9	61
16	Demonstration of endo-cis-(2S,3R)-Bicyclo[2.2.1]hept-5-en-2,3- dicarbonyl Unit as a Reverse-Turn Scaffold and Nucleator of Two-Stranded Parallel β -Sheets: A Design, Synthesis, Crystal Structure, and Self-Assembling Properties of Norborneno Peptide Analogues. <i>Journal of the American Chemical Society</i> , 1998, 120, 8448-8460.	13.7	49
17	Determination of beta-turn conformation by laser Raman spectroscopy. <i>Biophysical Journal</i> , 1981, 36, 509-517.	0.5	40
18	A synthetic 13-residue peptide corresponding to the hydrophobic region of bovine seminal plasmin has antibacterial activity and also causes lysis of red blood cells.. <i>Journal of Biological Chemistry</i> , 1990, 265, 10438-10442.	3.4	38

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19	Design, Synthesis, and Ion-Transport Properties of a Novel Family of Cyclic, Adamantane-Containing Cysteine Peptides. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1105-1107.	4.4	35
20	Cyclic Homooligomers of Furanoid Sugar Amino Acids. <i>Journal of Organic Chemistry</i> , 2003, 68, 6257-6263.	3.2	35
21	Alamethicin and synthetic peptide fragments as uncouplers of mitochondrial oxidative phosphorylation. Effect of chain length and change. <i>Biochemical and Biophysical Research Communications</i> , 1981, 98, 548-555.	2.1	33
22	A synthetic 13-residue peptide corresponding to the hydrophobic region of bovine seminal plasmin has antibacterial activity and also causes lysis of red blood cells. <i>Journal of Biological Chemistry</i> , 1990, 265, 10438-42.	3.4	32
23	Infrared spectroscopy as a probe for the development of secondary structure in the amino-terminal segment of alamethicin. <i>FEBS Letters</i> , 1979, 100, 244-248.	2.8	31
24	Synthesis and structural studies of oligomers of 6-amino-2,5-anhydro-6-deoxy-d-mannonic acid. <i>Tetrahedron Letters</i> , 2000, 41, 8167-8171.	1.4	31
25	Hydrophobic channels in crystals of an L-aminoisobutyric acid pentapeptide. <i>Biochemical and Biophysical Research Communications</i> , 1981, 103, 898-904.	2.1	30
26	Membrane channel-forming polypeptides. Aqueous phase aggregation and membrane-modifying activity of synthetic fluorescent alamethicin fragments. <i>Journal of Biological Chemistry</i> , 1982, 257, 2170-2176.	3.4	30
27	Change of glutamic acid to lysine in a 13-residue antibacterial and hemolytic peptide results in enhanced antibacterial activity without increase in hemolytic activity. <i>Antimicrobial Agents and Chemotherapy</i> , 1992, 36, 2468-2472.	3.2	29
28	The crystal structure of benzyloxycarbonyl-(L-aminoisobuteryl) ² -L-alanyl methyl ester. <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , 1980, 36, 107-110.	0.4	26
29	Cation translocating effects of alamethicin and its synthetic fragments in lipid membranes. <i>FEBS Letters</i> , 1980, 121, 365-368.	2.8	25
30	Design of 16-residue peptides possessing antimicrobial and hemolytic activities or only antimicrobial activity from an inactive peptide. <i>International Journal of Peptide and Protein Research</i> , 1995, 46, 480-486.	0.1	24
31	The antibacterial peptide seminal plasmin alters permeability of the inner membrane of <i>E. coli</i> . <i>FEBS Letters</i> , 1992, 303, 265-268.	2.8	22
32	Racemization at proline residues during peptide bond formation. <i>Tetrahedron</i> , 1981, 37, 2001-2005.	1.9	21
33	Interaction of indolicidin, a 13-residue peptide rich in tryptophan and proline and its analogues with model membranes. <i>Journal of Biosciences</i> , 1998, 23, 9-13.	1.1	21
34	Interaction of the 47-residue antibacterial peptide seminal plasmin and its 13-residue fragment which has antibacterial and hemolytic activities with model membranes. <i>Biochemistry</i> , 1993, 32, 3124-3130.	2.5	20
35	Perturbation of the lipid bilayer of model membranes by synthetic signal peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1987, 903, 465-472.	2.6	19
36	ROTATIONAL ISOMERISM ABOUT THE C _α -C _β BOND IN PROLINE DERIVATIVES. <i>International Journal of Peptide and Protein Research</i> , 1980, 16, 291-298.	0.1	19

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37	Structural and charge requirements for antimicrobial and hemolytic activity in the peptide PKLLETFLSKWIG, corresponding to the hydrophobic region of the antimicrobial protein bovine seminalplasmin. International Journal of Peptide and Protein Research, 1995, 46, 166-173.	0.1	18
38	A stereochemically-constrained enkephalin analog. FEBS Letters, 1978, 96, 273-276.	2.8	17
39	Fluorescent hydrophobic peptide fragments of emerimicin. Models for the study of peptide aggregation and interactions with lipids and proteins. Biochemical and Biophysical Research Communications, 1979, 89, 1041-1049.	2.1	16
40	Enkephalin analogs. Introduction of stereochemical constraints, metal binding sites and fluorescent groups. FEBS Letters, 1979, 106, 271-274.	2.8	13
41	H N.M.R. STUDIES OF PROTECTED Î±-AMINOISOBUTYRIC ACID CONTAINING PEPTIDES. International Journal of Peptide and Protein Research, 1981, 18, 208-213.	0.1	12
42	Identification of the region that plays an important role in determining antibacterial activity of bovine seminalplasmin. FEBS Letters, 1997, 400, 289-292.	2.8	11
43	Addition and omission analogs of the 13-residue antibacterial and hemolytic peptide PKLLKTFLSKWIG: structural preferences, model membrane binding and biological activities. Chemical Biology and Drug Design, 1999, 53, 47-55.	1.1	11
44	Synthesis and conformational studies of peptidomimetics containing a carbocyclic 1,3-diacid. Tetrahedron, 2001, 57, 9169-9175.	1.9	11
45	Identification of a second membrane-active 13-residue peptide segment in the antimicrobial protein, bovine seminalplasmin. FEBS Letters, 1993, 328, 239-242.	2.8	10
46	Is Protein Folding Still a Challenge?. Journal of Biomolecular Structure and Dynamics, 2011, 28, 639-640.	3.5	5
47	Manual solid-phase syntheses of peptides on resins with high loading capacity requiring small volumes of solvents. Journal of Chemical Sciences, 1997, 109, 319-323.	1.5	2
48	Studies on the synthesis of the toxins, pardaxin, Î±-toxin and their analogues by solid-phase methods. Journal of Chemical Sciences, 1994, 106, 1109-1121.	1.5	1
49	Mass spectra of t-butylloxycarbonyl (BOC)-protected peptides. Organic Mass Spectrometry, 1990, 25, 97-100.	1.3	0
50	Is Levinthal's question answered after a revisit?. Journal of Biomolecular Structure and Dynamics, 2013, 31, 961-962.	3.5	0