

Delia Picone

List of Publications by Year in descending order

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108
papers

3,781
citations

159585

30
h-index

144013

57
g-index

109
all docs

109
docs citations

109
times ranked

3816
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution structure of the Alzheimer amyloid β -peptide (1-42) in an apolar microenvironment. FEBS Journal, 2002, 269, 5642-5648.	0.2	577
2	The β -to- β^2 Conformational Transition of Alzheimer's β -(1-42) Peptide in Aqueous Media is Reversible: A Step by Step Conformational Analysis Suggests the Location of β^2 Conformation Seeding. ChemBioChem, 2006, 7, 257-267.	2.6	375
3	Solution Structure of Amyloid β -Peptide (25-35) in Different Media. Journal of Medicinal Chemistry, 2004, 47, 4231-4238.	6.4	117
4	NMR Spectroscopic Assignment of Backbone and Side-Chain Protons in Fully Protonated Proteins: Microcrystals, Sedimented Assemblies, and Amyloid Fibrils. Angewandte Chemie - International Edition, 2016, 55, 15504-15509.	13.8	116
5	β Opioidmimetic Antagonists: Prototypes for Designing a New Generation of Ultrasensitive Opioid Peptides. Molecular Medicine, 1995, 1, 678-689.	4.4	116
6	Solution Structure of a Chemosensory Protein from the Desert Locust Schistocerca gregaria,. Biochemistry, 2006, 45, 10606-10613.	2.5	111
7	Selective Opioid Dipeptides. Biochemical and Biophysical Research Communications, 1994, 198, 933-939.	2.1	89
8	Peamaclein " A new peach allergenic protein: similarities, differences and misleading features compared to Pru p 3. Clinical and Experimental Allergy, 2013, 43, 128-140.	2.9	85
9	Onconase induces autophagy sensitizing pancreatic cancer cells to gemcitabine and activates Akt/mTOR pathway in a ROS-dependent manner. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 549-560.	4.1	77
10	Conformational preferences of [Leu5]enkephalin in biomimetic media. Investigation by ^1H NMR. FEBS Journal, 1990, 192, 433-439.	0.2	70
11	The Importance of Electrostatic Potential in The Interaction of Sweet Proteins with the Sweet Taste Receptor. Journal of Molecular Biology, 2006, 360, 448-456.	4.2	69
12	Identification of the Spiro(oxindole-3,3-thiazolidine)-Based Derivatives as Potential p53 Activity Modulators. Journal of Medicinal Chemistry, 2010, 53, 8319-8329.	6.4	69
13	Acetate: friend or foe? Efficient production of a sweet protein in Escherichia coli BL21 using acetate as a carbon source. Microbial Cell Factories, 2015, 14, 106.	4.0	59
14	The Mechanism of Interaction of Sweet Proteins with the T1R2-T1R3 Receptor: Evidence from the Solution Structure of G16A-MNEI. Journal of Molecular Biology, 2003, 328, 683-692.	4.2	52
15	Conversion of Enkephalin and Dermorphin into delta-Selective Opioid Antagonists by Single-Residue Substitution. FEBS Journal, 1994, 224, 241-247.	0.2	48
16	Glycation affects fibril formation of β peptides. Journal of Biological Chemistry, 2018, 293, 13100-13111.	3.4	47
17	Does casomorphin have a functional role?. FEBS Letters, 1984, 169, 53-56.	2.8	46
18	Bioactive conformation of linear peptides in solution: An elusive goal?. Biopolymers, 1989, 28, 91-107.	2.4	46

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19	New insights on μ / κ selectivity of opioid peptides: Conformational analysis of deltorphin analogues. <i>Biopolymers</i> , 1991, 31, 751-760.	2.4	44
20	New features of the μ opioid receptor: Conformational properties of deltorphin I analogues. <i>Biochemical and Biophysical Research Communications</i> , 1990, 169, 617-622.	2.1	43
21	Structure, stability, and IgE binding of the peach allergen β -glucanase (Pru p 7). <i>Biopolymers</i> , 2014, 102, 416-425.	2.4	43
22	Design of sweet protein based sweeteners: Hints from structure-function relationships. <i>Food Chemistry</i> , 2015, 173, 1179-1186.	8.2	40
23	Kissper, a kiwi fruit peptide with channel-like activity: Structural and functional features. <i>Journal of Peptide Science</i> , 2008, 14, 742-754.	1.4	39
24	Conformational properties of deltorphin: New features of the μ -opioid receptor. <i>FEBS Letters</i> , 1989, 247, 283-288.	2.8	38
25	Sweeter and stronger: enhancing sweetness and stability of the single chain monellin MNEI through molecular design. <i>Scientific Reports</i> , 2016, 6, 34045.	3.3	38
26	Double Domain Swapping in Bovine Seminal RNase: Formation of Distinct N- and C-swapped Tetramers and Multimers with Increasing Biological Activities. <i>PLoS ONE</i> , 2012, 7, e46804.	2.5	37
27	The Buried Diversity of Bovine Seminal Ribonuclease: Shape and Cytotoxicity of the Swapped Non-covalent Form of the Enzyme. <i>Journal of Molecular Biology</i> , 2008, 376, 427-437.	4.2	35
28	Dissimilar sweet proteins from plants: Oddities or normal components?. <i>Plant Science</i> , 2012, 195, 135-142.	3.6	35
29	Conformational analysis of an opioid peptide in solvent media that mimic cytoplasm viscosity. <i>Biopolymers</i> , 1992, 32, 367-372.	2.4	34
30	Physicochemical features of the environment affect the protein conformation and the immunoglobulin E reactivity of kiwellin (Act d 5). <i>Clinical and Experimental Allergy</i> , 2010, 40, 1819-1826.	2.9	34
31	Environmental Conditions Modulate the Switch among Different States of the Hydrophobin Vmh2 from <i>Pleurotus ostreatus</i> . <i>Biomacromolecules</i> , 2012, 13, 743-750.	5.4	32
32	Structural characterization of the transmembrane proximal region of the hepatitis C virus E1 glycoprotein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 344-353.	2.6	30
33	Temporal Sweetness Profile of MNEI and Comparison with Commercial Sweeteners. <i>Journal of Sensory Studies</i> , 2014, 29, 385-394.	1.6	30
34	A 500 MHz study of peptide T in a DMSO solution. <i>FEBS Letters</i> , 1988, 231, 159-163.	2.8	29
35	Viscosity as a conformational sieve. NOE of linear peptides in cryoprotective mixtures. <i>Journal of Magnetic Resonance</i> , 1991, 95, 201-207.	0.5	29
36	The Role of the Hinge Loop in Domain Swapping. <i>Journal of Biological Chemistry</i> , 2005, 280, 13771-13778.	3.4	29

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37	Low temperature nmr studies of leu-enkephalins in cryoprotective solvents.. Tetrahedron, 1988, 44, 975-990.	1.9	28
38	Bacterial expression and conformational analysis of a chemosensory protein from Schistosoma gregaria. FEBS Journal, 2001, 268, 4794-4801.	0.2	28
39	Molecular Dynamics Driven Design of pH-Stabilized Mutants of MNEI, a Sweet Protein. PLoS ONE, 2016, 11, e0158372.	2.5	28
40	Structural and functional relationships of natural and artificial dimeric bovine ribonucleases: New scaffolds for potential antitumor drugs. FEBS Letters, 2013, 587, 3601-3608.	2.8	27
41	Isolation and characterization of dipeptidyl peptidase IV from human meconium. FEBS Letters, 1985, 184, 273-277.	2.8	26
42	Bovine seminal ribonuclease triggers Beclin1-mediated autophagic cell death in pancreatic cancer cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2014, 1843, 976-984.	4.1	26
43	Conformational sampling of bioactive conformers: a low-temperature NMR study of 15N-Leu-enkephalin. , 1998, 4, 253-265.		25
44	NOE measurements on linear peptides in cryoprotective aqueous mixtures. Journal of Magnetic Resonance, 1987, 75, 364-370.	0.5	24
45	Conformational analysis of peptide T and of its C-pentapeptide fragment. Biopolymers, 1989, 28, 479-486.	2.4	24
46	Solution Conformation of Nociceptin. Biochemical and Biophysical Research Communications, 1997, 233, 640-643.	2.1	24
47	Design and Solution Structure of a Partially Rigid Opioid Antagonist Lacking the Basic Center - Models of Antagonism. FEBS Journal, 1997, 247, 66-73.	0.2	24
48	Comparison of the structural and functional properties of RNase A and BS-RNase: A stepwise mutagenesis approach. Biopolymers, 2009, 91, 1009-1017.	2.4	24
49	Platinated oligomers of bovine pancreatic ribonuclease: Structure and stability. Journal of Inorganic Biochemistry, 2015, 146, 37-43.	3.5	24
50	Solution Conformation of CCK9, a Cholecystokinin Analog. Biochemical and Biophysical Research Communications, 1993, 190, 741-746.	2.1	23
51	Solution structure of the C1-subdomain of Bacillus stearothermophilus translation initiation factor IF2. Protein Science, 2005, 14, 2461-2468.	7.6	23
52	Crowding agents and osmolytes provide insight into the formation and dissociation of RNase A oligomers. Archives of Biochemistry and Biophysics, 2011, 506, 123-129.	3.0	23
53	The Swapping of Terminal Arms in Ribonucleases: A Comparison of the Solution Structure of Monomeric Bovine Seminal and Pancreatic Ribonucleases. Biochemistry, 2003, 42, 8704-8711.	2.5	22
54	Transfer ribonucleic acid deprived of the C-C-A 3'-extremity can interact with elongation factor Tu. Biochemistry, 1983, 22, 4400-4405.	2.5	21

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55	A New Mutant of Bovine Seminal Ribonuclease with a Reversed Swapping Propensity. <i>Biochemistry</i> , 2007, 46, 2227-2232.	2.5	20
56	Enforcing the positive charge of N-termini enhances membrane interaction and antitumor activity of bovine seminal ribonuclease. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 3007-3015.	2.6	20
57	Conformational analysis of potent and very selective $\hat{\nu}$ opioid dipeptide antagonists. <i>FEBS Letters</i> , 1995, 377, 363-367.	2.8	19
58	Solution structure of dynorphin A (1-17): a NMR study in a cryoprotective solvent mixture at 278 K. , 1999, 5, 306-312.		19
59	Solution structure of human $\hat{\nu}^2$ -endorphin in helicogenic solvents: an NMR study. , 1999, 5, 410-422.		19
60	Influence of $\langle \text{pH} \rangle$ on the structure and stability of the sweet protein MNEI. <i>FEBS Letters</i> , 2016, 590, 3681-3689.	2.8	19
61	Structural Studies on Hgr3 Orphan Receptor Ligand Prolactin-Releasing Peptide. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 5483-5491.	6.4	18
62	Environmental Mimic of Receptor Interaction: Conformational Analysis of CCK-15 in Solution. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 762-769.	6.4	18
63	Solution and solid-state structure of the diketopiperazine of tyrosyl-tetrahydroisoquinoline-carboxylic acid. <i>International Journal of Peptide and Protein Research</i> , 1995, 46, 134-138.	0.1	17
64	Onconase dimerization through 3D domain swapping: structural investigations and increase in the apoptotic effect in cancer cells*. <i>Biochemical Journal</i> , 2017, 474, 3767-3781.	3.7	17
65	Taste Detection and Recognition Thresholds of The Modified Monellin Sweetener: $\langle \text{MNEI} \rangle$. <i>Journal of Sensory Studies</i> , 2013, 28, 25-33.	1.6	16
66	Getting value from the waste: recombinant production of a sweet protein by <i>Lactococcus lactis</i> grown on cheese whey. <i>Microbial Cell Factories</i> , 2018, 17, 126.	4.0	16
67	Assignment and Secondary-Structure Determination of Monomeric Bovine Seminal Ribonuclease Employing Computer-Assisted Evaluation of Homonuclear Three-Dimensional $^1\text{H-NMR}$ Spectra. <i>FEBS Journal</i> , 1995, 229, 494-502.	0.2	16
68	$\hat{\nu}$ -Selective Opioid Peptides Containing a Single Aromatic Residue in the Message Domain: An NMR Conformational Analysis. <i>Journal of Peptide Science</i> , 1996, 2, 290-308.	1.4	15
69	Role of the hinge peptide and the intersubunit interface in the swapping of N-termini in dimeric bovine seminal RNase. <i>FEBS Journal</i> , 2003, 270, 4729-4735.	0.2	15
70	Toward an antitumor form of bovine pancreatic ribonuclease: The crystal structure of three noncovalent dimeric mutants. <i>Biopolymers</i> , 2009, 91, 1029-1037.	2.4	15
71	A comparison study on RNase A oligomerization induced by cisplatin, carboplatin and oxaliplatin. <i>Journal of Inorganic Biochemistry</i> , 2017, 173, 105-112.	3.5	15
72	3×10^4 Helices, Helix Screw Sense and Screw Sense Reversal in the Dehydro-peptide Boc-Val ¹ -Phe ² -Gly ³ -Phe ⁴ -Val ⁵ -OMe. <i>Journal of Peptide Science</i> , 1996, 2, 47-58.	1.4	13

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73	NMR Studies on Structure and Dynamics of the Monomeric Derivative of BS-RNase: New Insights for 3D Domain Swapping. PLoS ONE, 2012, 7, e29076.	2.5	13
74	pH driven fibrillar aggregation of the super-sweet protein Y65R-MNEI: A step-by-step structural analysis. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 808-815.	2.4	13
75	Solution structure of nociceptin peptides. Journal of Peptide Science, 2002, 8, 497-509.	1.4	12
76	Dissociation and reconstitution of bovine seminal RNAase: Construction of a hyperactive hybrid dimer. The Protein Journal, 1989, 8, 719-731.	1.1	11
77	Disordered Peptides Looking for Their Native Environment: Structural Basis of CB1 Endocannabinoid Receptor Binding to Peptides. Frontiers in Molecular Biosciences, 2018, 5, 100.	3.5	11
78	310-Helices, Helix Screw Sense and Screw Sense Reversal in the Dehydro-peptide Boc-Val- <i>l</i> -Phe-Gly- <i>l</i> -Phe-Val-OMe. Journal of Peptide Science, 1996, 2, 47-58.	1.4	10
79	Preferential interaction of the Alzheimer peptide A β (1-42) with Omega ω -containing lipid bilayers: structure and interaction studies. FEBS Letters, 2016, 590, 582-591.	2.8	10
80	Structure-cytotoxicity relationships in bovine seminal ribonuclease: new insights from heat and chemical denaturation studies on variants. FEBS Journal, 2011, 278, 111-122.	4.7	9
81	Chain termini cross-talk in the swapping process of bovine pancreatic ribonuclease. Biochimie, 2012, 94, 1108-1118.	2.6	9
82	Temporal sweetness profile of MNEI protein in gelled model systems. Journal of Sensory Studies, 2016, 31, 382-392.	1.6	9
83	A Super Stable Mutant of the Plant Protein Monellin Endowed with Enhanced Sweetness. Life, 2021, 11, 236.	2.4	9
84	The multiple forms of bovine seminal ribonuclease: Structure and stability of a C-terminal swapped dimer. FEBS Letters, 2013, 587, 3755-3762.	2.8	8
85	A preliminary study on the application of natural sweet proteins in agar-based gels. Journal of Texture Studies, 2017, 48, 103-113.	2.5	8
86	Structural effects of methylglyoxal glycation, a study on the model protein MNEI. Molecular and Cellular Biochemistry, 2019, 451, 165-171.	3.1	8
87	Solution structure of nocistatin, a new peptide analgesic. Biopolymers, 2000, 53, 257-264.	2.4	7
88	Mechanism of D domain swapping in bovine seminal ribonuclease. FEBS Journal, 2014, 281, 842-850.	4.7	7
89	Ecotoxicological survey of MNEI and Y65R-MNEI proteins as new potential high-intensity sweeteners. Environmental Science and Pollution Research, 2017, 24, 9734-9740.	5.3	7
90	Hot spot mapping of protein surfaces with TEMPOL: Bovine pancreatic RNase A as a model system. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 201-207.	2.3	6

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91	Salt Modulated Fibrillar Aggregation of the Sweet Protein MNEI in Aqueous Solution. <i>Journal of Solution Chemistry</i> , 2018, 47, 939-949.	1.2	6
92	Peptide T revisited: conformational mimicry of epitopes of anti-HIV proteins. <i>Journal of Peptide Science</i> , 2001, 7, 197-207.	1.4	5
93	High-level production of single chain monellin mutants with enhanced sweetness and stability in tobacco chloroplasts. <i>Planta</i> , 2018, 248, 465-476.	3.2	5
94	Structure, stability and aggregation propensity of a Ribonuclease A-Onconase chimera. <i>International Journal of Biological Macromolecules</i> , 2019, 133, 1125-1133.	7.5	5
95	Probing structural changes during amyloid aggregation of the sweet protein MNEI. <i>FEBS Journal</i> , 2020, 287, 2808-2822.	4.7	5
96	Assignment and Secondary-Structure Determination of Monomeric Bovine Seminal Ribonuclease Employing Computer-Assisted Evaluation of Homonuclear Three-Dimensional 1H-NMR Spectra. <i>FEBS Journal</i> , 1995, 229, 494-502.	0.2	4
97	1H and 15N sequential assignment and secondary structure of the monomeric N67D mutant of bovine seminal ribonuclease. <i>Journal of Biomolecular NMR</i> , 2001, 20, 289-290.	2.8	4
98	Temporal sweetness profile of the emerging sweetener MNEI in stirred yogurt. <i>Journal of Sensory Studies</i> , 2019, 34, e12505.	1.6	4
99	Metabolic Effects of the Sweet Protein MNEI as a Sweetener in Drinking Water. A Pilot Study of a High Fat Dietary Regimen in a Rodent Model. <i>Nutrients</i> , 2019, 11, 2643.	4.1	4
100	Production and characterization of a fusion form of hepatitis E virus ORF2 capsid protein in <i>Escherichia coli</i> . <i>Preparative Biochemistry and Biotechnology</i> , 2021, 51, 562-569.	1.9	3
101	Understanding the self-assembly pathways of a single chain variant of monellin: A first step towards the design of sweet nanomaterials. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 21-29.	7.5	3
102	CD and NMR conformational studies on cholecystokinin peptides. <i>Regulatory Peptides</i> , 1992, 40, 213.	1.9	2
103	Solution Structure of Casokefamide. <i>Biochemical and Biophysical Research Communications</i> , 1993, 191, 853-859.	2.1	2
104	Striking Dependence of Protein Sweetness on Water Quality: The Role of the Ionic Strength. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 705102.	3.5	1
105	PROLANG: the SCAN command. <i>Bioinformatics</i> , 1990, 6, 403-403.	4.1	0
106	Sweeter and Stronger: Structural-Driven Molecular Design to Enhance Sweetness and Stability of the Single Chain Monellin MNEI. <i>Biophysical Journal</i> , 2017, 112, 53a.	0.5	0
107	Solution structure of insect CSP and OBPs by NMR. <i>Methods in Enzymology</i> , 2020, 642, 169-192.	1.0	0
108	Bovine Seminal Ribonuclease and Its Special Features: When Two is Better Than One. , 2013, , 93-113.		0