

Delia Picone

List of Publications by Year in descending order

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108
papers

3,781
citations

159525

30
h-index

143943

57
g-index

109
all docs

109
docs citations

109
times ranked

3816
citing authors

#	ARTICLE	IF	CITATIONS
1	Production and characterization of a fusion form of hepatitis E virus <i>t</i>ORF2 capsid protein in <i>Escherichia coli</i>. <i>Preparative Biochemistry and Biotechnology</i> , 2021, 51, 562-569.	1.0	3
2	A Super Stable Mutant of the Plant Protein Monellin Endowed with Enhanced Sweetness. <i>Life</i> , 2021, 11, 236.	1.1	9
3	Striking Dependence of Protein Sweetness on Water Quality: The Role of the Ionic Strength. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 705102.	1.6	1
4	Probing structural changes during amyloid aggregation of the sweet protein MNEI. <i>FEBS Journal</i> , 2020, 287, 2808-2822.	2.2	5
5	Solution structure of insect CSP and OBPs by NMR. <i>Methods in Enzymology</i> , 2020, 642, 169-192.	0.4	0
6	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.	3.6	3
7	Structural effects of methylglyoxal glycation, a study on the model protein MNEI. <i>Molecular and Cellular Biochemistry</i> , 2019, 451, 165-171.	1.4	8
8	Temporal sweetness profile of the emerging sweetener MNEI in stirred yogurt. <i>Journal of Sensory Studies</i> , 2019, 34, e12505.	0.8	4
9	Structure, stability and aggregation propensity of a Ribonuclease A-Onconase chimera. <i>International Journal of Biological Macromolecules</i> , 2019, 133, 1125-1133.	3.6	5
10	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.	1.7	4
11	pH driven fibrillar aggregation of the super-sweet protein Y65R-MNEI: A step-by-step structural analysis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 808-815.	1.1	13
12	Disordered Peptides Looking for Their Native Environment: Structural Basis of CB1 Endocannabinoid Receptor Binding to Peptans. <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 100.	1.6	11
13	High-level production of single chain monellin mutants with enhanced sweetness and stability in tobacco chloroplasts. <i>Planta</i> , 2018, 248, 465-476.	1.6	5
14	Salt Modulated Fibrillar Aggregation of the Sweet Protein MNEI in Aqueous Solution. <i>Journal of Solution Chemistry</i> , 2018, 47, 939-949.	0.6	6
15	Glycation affects fibril formation of $\text{A}\hat{1}^2$ peptides. <i>Journal of Biological Chemistry</i> , 2018, 293, 13100-13111.	1.6	47
16	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.	1.9	16
17	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.	0.2	0
18	A comparison study on RNase A oligomerization induced by cisplatin, carboplatin and oxaliplatin. <i>Journal of Inorganic Biochemistry</i> , 2017, 173, 105-112.	1.5	15

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19	Hot spot mapping of protein surfaces with TEMPOL: Bovine pancreatic RNase A as a model system. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 201-207.	1.1	6
20	Ecotoxicological survey of MNEI and Y65R-MNEI proteins as new potential high-intensity sweeteners. <i>Environmental Science and Pollution Research</i> , 2017, 24, 9734-9740.	2.7	7
21	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.	1.7	17
22	A preliminary study on the application of natural sweet proteins in agar-based gels. <i>Journal of Texture Studies</i> , 2017, 48, 103-113.	1.1	8
23	Preferential interaction of the Alzheimer peptide A β (1-42) with Omega-3 containing lipid bilayers: structure and interaction studies. <i>FEBS Letters</i> , 2016, 590, 582-591.	1.3	10
24	Influence of pH on the structure and stability of the sweet protein MNEI. <i>FEBS Letters</i> , 2016, 590, 3681-3689.	1.3	19
25	Temporal sweetness profile of MNEI protein in gelled model systems. <i>Journal of Sensory Studies</i> , 2016, 31, 382-392.	0.8	9
26	Sweeter and stronger: enhancing sweetness and stability of the single chain monellin MNEI through molecular design. <i>Scientific Reports</i> , 2016, 6, 34045.	1.6	38
27	NMR Spectroscopic Assignment of Backbone and Side-Chain Protons in Fully Protonated Proteins: Microcrystals, Sedimented Assemblies, and Amyloid Fibrils. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15504-15509.	7.2	116
28	Molecular Dynamics Driven Design of pH-Stabilized Mutants of MNEI, a Sweet Protein. <i>PLoS ONE</i> , 2016, 11, e0158372.	1.1	28
29	Acetate: friend or foe? Efficient production of a sweet protein in <i>Escherichia coli</i> BL21 using acetate as a carbon source. <i>Microbial Cell Factories</i> , 2015, 14, 106.	1.9	59
30	Onconase induces autophagy sensitizing pancreatic cancer cells to gemcitabine and activates Akt/mTOR pathway in a ROS-dependent manner. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 549-560.	1.9	77
31	Design of sweet protein based sweeteners: Hints from structure-function relationships. <i>Food Chemistry</i> , 2015, 173, 1179-1186.	4.2	40
32	Platinated oligomers of bovine pancreatic ribonuclease: Structure and stability. <i>Journal of Inorganic Biochemistry</i> , 2015, 146, 37-43.	1.5	24
33	Structure, stability, and IgE binding of the peach allergen P _{ea} amaclein (Pru p 7). <i>Biopolymers</i> , 2014, 102, 416-425.	1.2	43
34	Mechanism of 3D domain swapping in bovine seminal ribonuclease. <i>FEBS Journal</i> , 2014, 281, 842-850.	2.2	7
35	Temporal Sweetness Profile of MNEI and Comparison with Commercial Sweeteners. <i>Journal of Sensory Studies</i> , 2014, 29, 385-394.	0.8	30
36	Bovine seminal ribonuclease triggers Beclin1-mediated autophagic cell death in pancreatic cancer cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 976-984.	1.9	26

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37	The multiple forms of bovine seminal ribonuclease: Structure and stability of a C-terminal swapped dimer. <i>FEBS Letters</i> , 2013, 587, 3755-3762.	1.3	8
38	Structural and functional relationships of natural and artificial dimeric bovine ribonucleases: New scaffolds for potential antitumor drugs. <i>FEBS Letters</i> , 2013, 587, 3601-3608.	1.3	27
39	Peamaclein " A new peach allergenic protein: similarities, differences and misleading features compared to Pru p 3. <i>Clinical and Experimental Allergy</i> , 2013, 43, 128-140.	1.4	85
40	Taste Detection and Recognition Thresholds of The Modified Monellin Sweetener: <sc>MNEI</sc>. <i>Journal of Sensory Studies</i> , 2013, 28, 25-33.	0.8	16
41	Bovine Seminal Ribonuclease and Its Special Features: When Two is Better Than One. , 2013, , 93-113.		0
42	Environmental Conditions Modulate the Switch among Different States of the Hydrophobin Vmh2 from <i>Pleurotus ostreatus</i> . <i>Biomacromolecules</i> , 2012, 13, 743-750.	2.6	32
43	Dissimilar sweet proteins from plants: Oddities or normal components?. <i>Plant Science</i> , 2012, 195, 135-142.	1.7	35
44	Chain termini cross-talk in the swapping process of bovine pancreatic ribonuclease. <i>Biochimie</i> , 2012, 94, 1108-1118.	1.3	9
45	NMR Studies on Structure and Dynamics of the Monomeric Derivative of BS-RNase: New Insights for 3D Domain Swapping. <i>PLoS ONE</i> , 2012, 7, e29076.	1.1	13
46	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.	1.1	37
47	Crowding agents and osmolytes provide insight into the formation and dissociation of RNase A oligomers. <i>Archives of Biochemistry and Biophysics</i> , 2011, 506, 123-129.	1.4	23
48	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.	1.4	20
49	Structure" cytotoxicity relationships in bovine seminal ribonuclease: new insights from heat and chemical denaturation studies on variants. <i>FEBS Journal</i> , 2011, 278, 111-122.	2.2	9
50	Physico"chemical 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.	1.4	34
51	Identification of the Spiro(oxindole-3,3"thiazolidine)-Based Derivatives as Potential p53 Activity Modulators. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 8319-8329.	2.9	69
52	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.	1.4	30
53	Comparison of the structural and functional properties of RNase A and BS"RNase: A stepwise mutagenesis approach. <i>Biopolymers</i> , 2009, 91, 1009-1017.	1.2	24
54	Toward an antitumor form of bovine pancreatic ribonuclease: The crystal structure of three noncovalent dimeric mutants. <i>Biopolymers</i> , 2009, 91, 1029-1037.	1.2	15

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55	Kissper, a kiwi fruit peptide with channel-like activity: Structural and functional features. <i>Journal of Peptide Science</i> , 2008, 14, 742-754.	0.8	39
56	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.	2.0	35
57	A New Mutant of Bovine Seminal Ribonuclease with a Reversed Swapping Propensity. <i>Biochemistry</i> , 2007, 46, 2227-2232.	1.2	20
58	Solution Structure of a Chemosensory Protein from the Desert Locust <i>Schistocerca gregaria</i> ,. <i>Biochemistry</i> , 2006, 45, 10606-10613.	1.2	111
59	The Importance of Electrostatic Potential in The Interaction of Sweet Proteins with the Sweet Taste Receptor. <i>Journal of Molecular Biology</i> , 2006, 360, 448-456.	2.0	69
60	The β -to- β^2 Conformational Transition of Alzheimer's A β -(1-42) Peptide in Aqueous Media is Reversible: A Step by Step Conformational Analysis Suggests the Location of β^2 Conformation Seeding. <i>ChemBioChem</i> , 2006, 7, 257-267.	1.3	375
61	Solution structure of the C1-subdomain of <i>Bacillus stearotherophilus</i> translation initiation factor IF2. <i>Protein Science</i> , 2005, 14, 2461-2468.	3.1	23
62	The Role of the Hinge Loop in Domain Swapping. <i>Journal of Biological Chemistry</i> , 2005, 280, 13771-13778.	1.6	29
63	Solution Structure of Amyloid β -Peptide (25-35) in Different Media. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 4231-4238.	2.9	117
64	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
65	The Swapping of Terminal Arms in Ribonucleases: A Comparison of the Solution Structure of Monomeric Bovine Seminal and Pancreatic Ribonucleases. <i>Biochemistry</i> , 2003, 42, 8704-8711.	1.2	22
66	The Mechanism of Interaction of Sweet Proteins with the T1R2-T1R3 Receptor: Evidence from the Solution Structure of G16A-MNEL. <i>Journal of Molecular Biology</i> , 2003, 328, 683-692.	2.0	52
67	Structural Studies on Hgr3 Orphan Receptor Ligand Prolactin-Releasing Peptide. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 5483-5491.	2.9	18
68	Environmental Mimic of Receptor Interaction: Conformational Analysis of CCK-15 in Solution. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 762-769.	2.9	18
69	Solution structure of the Alzheimer amyloid β -peptide (1-42) in an apolar microenvironment. <i>FEBS Journal</i> , 2002, 269, 5642-5648.	0.2	577
70	Solution structure of nociceptin peptides. <i>Journal of Peptide Science</i> , 2002, 8, 497-509.	0.8	12
71	Bacterial expression and conformational analysis of a chemosensory protein from <i>Schistocerca gregaria</i> . <i>FEBS Journal</i> , 2001, 268, 4794-4801.	0.2	28
72	Peptide T revisited: conformational mimicry of epitopes of anti-HIV proteins. <i>Journal of Peptide Science</i> , 2001, 7, 197-207.	0.8	5

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73	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.	1.6	4
74	Solution structure of nocistatin, a new peptide analgesic. <i>Biopolymers</i> , 2000, 53, 257-264.	1.2	7
75	Solution structure of dynorphin A (1-17): a NMR study in a cryoprotective solvent mixture at 278 K. , 1999, 5, 306-312.		19
76	Solution structure of human $\hat{\mu}$ -endorphin in helicogenic solvents: an NMR study. , 1999, 5, 410-422.		19
77	Conformational sampling of bioactive conformers: a low-temperature NMR study of 15N-Leu $\hat{\epsilon}$ -enkephalin. , 1998, 4, 253-265.		25
78	Solution Conformation of Nociceptin. <i>Biochemical and Biophysical Research Communications</i> , 1997, 233, 640-643.	1.0	24
79	Design and Solution Structure of a Partially Rigid Opioid Antagonist Lacking the Basic Center - Models of Antagonism. <i>FEBS Journal</i> , 1997, 247, 66-73.	0.2	24
80	310-Helices, Helix Screw Sense and Screw Sense Reversal in the Dehydro-peptide Boc-Val- $\hat{\mu}$ -Phe-Gly- $\hat{\mu}$ -Phe-Val-OMe. <i>Journal of Peptide Science</i> , 1996, 2, 47-58.	0.8	10
81	$\hat{\mu}$ -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.	0.8	15
82	3 ₁₀ -Helices, Helix Screw Sense and Screw Sense Reversal in the Dehydro-peptide Boc-Val- $\hat{\mu}$ -Phe-Gly- $\hat{\mu}$ -Phe-Val-OMe. <i>Journal of Peptide Science</i> , 1996, 2, 47-58.	0.8	13
83	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
84	Conformational analysis of potent and very selective $\hat{\mu}$ opioid dipeptide antagonists. <i>FEBS Letters</i> , 1995, 377, 363-367.	1.3	19
85	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
86	$\hat{\mu}$ Opioidmimetic Antagonists: Prototypes for Designing a New Generation of Ultrasensitive Opioid Peptides. <i>Molecular Medicine</i> , 1995, 1, 678-689.	1.9	116
87	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	16
88	Conversion of Enkephalin and Dermorphin into delta-Selective Opioid Antagonists by Single-Residue Substitution. <i>FEBS Journal</i> , 1994, 224, 241-247.	0.2	48
89	Selective Opioid Dipeptides. <i>Biochemical and Biophysical Research Communications</i> , 1994, 198, 933-939.	1.0	89
90	Solution Conformation of CCK9, a Cholecystokinin Analog. <i>Biochemical and Biophysical Research Communications</i> , 1993, 190, 741-746.	1.0	23

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91	Solution Structure of Casokefamide. <i>Biochemical and Biophysical Research Communications</i> , 1993, 191, 853-859.	1.0	2
92	CD and NMR conformational studies on cholecystokinin peptides. <i>Regulatory Peptides</i> , 1992, 40, 213.	1.9	2
93	Conformational analysis of an opioid peptide in solvent media that mimic cytoplasm viscosity. <i>Biopolymers</i> , 1992, 32, 367-372.	1.2	34
94	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
95	New insights on μ/δ selectivity of opioid peptides: Conformational analysis of deltorphin analogues. <i>Biopolymers</i> , 1991, 31, 751-760.	1.2	44
96	Conformational preferences of [Leu5]enkephalin in biomimetic media. Investigation by ^1H NMR. <i>FEBS Journal</i> , 1990, 192, 433-439.	0.2	70
97	PROLANG: the SCAN command. <i>Bioinformatics</i> , 1990, 6, 403-403.	1.8	0
98	New features of the $\hat{\mu}$ opioid receptor: Conformational properties of deltorphin I analogues. <i>Biochemical and Biophysical Research Communications</i> , 1990, 169, 617-622.	1.0	43
99	Dissociation and reconstitution of bovine seminal RNAase: Construction of a hyperactive hybrid dimer. <i>The Protein Journal</i> , 1989, 8, 719-731.	1.1	11
100	Bioactive conformation of linear peptides in solution: An elusive goal?. <i>Biopolymers</i> , 1989, 28, 91-107.	1.2	46
101	Conformational analysis of peptide T and of its C-pentapeptide fragment. <i>Biopolymers</i> , 1989, 28, 479-486.	1.2	24
102	Conformational properties of deltorphin: New features of the $\hat{\mu}$ -opioid receptor. <i>FEBS Letters</i> , 1989, 247, 283-288.	1.3	38
103	Low temperature nmr studies of leu-enkephalins in cryoprotective solvents.. <i>Tetrahedron</i> , 1988, 44, 975-990.	1.0	28
104	A 500 MHz study of peptide T in a DMSO solution. <i>FEBS Letters</i> , 1988, 231, 159-163.	1.3	29
105	NOE measurements on linear peptides in cryoprotective aqueous mixtures. <i>Journal of Magnetic Resonance</i> , 1987, 75, 364-370.	0.5	24
106	Isolation and characterization of dipeptidyl peptidase IV from human meconium. <i>FEBS Letters</i> , 1985, 184, 273-277.	1.3	26
107	Does casomorphin have a functional role?. <i>FEBS Letters</i> , 1984, 169, 53-56.	1.3	46
108	Transfer ribonucleic acid deprived of the C-C-A 3'-extremity can interact with elongation factor Tu. <i>Biochemistry</i> , 1983, 22, 4400-4405.	1.2	21