Pietro Amodeo

List of Publications by Year
in descending order

107	2,547	159585 30	243625 44
papers	citations	h-index	g-index

117	117	117	3257
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Topology of the calmodulin-melittin complex 1 1Edited by P.E. Wright. Journal of Molecular Biology, 1998, 277, 945-958.	4.2	90
2	Selective Opioid Dipeptides. Biochemical and Biophysical Research Communications, 1994, 198, 933-939.	2.1	89
3	Structure, conformation and biological activity of a novel lipodepsipeptide from Pseudomonas corrugata: cormycin A1. Biochemical Journal, 2004, 384, 25-36.	3.7	86
4	Preclinical Development of a Novel Class of CXCR4 Antagonist Impairing Solid Tumors Growth and Metastases. PLoS ONE, 2013, 8, e74548.	2.5	76
5	Rare Casbane Diterpenoids from the Hainan Soft Coral Sinularia depressa. Journal of Natural Products, 2010, 73, 133-138.	3.0	70
6	A folding-dependent mechanism of antimicrobial peptide resistance to degradation unveiled by solution structure of distinctin. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6309-6314.	7.1	68
7	Structural determination of the active site of a sweet protein A1H NMR investigation of pMNEI. FEBS Letters, 1992, 310, 27-30.	2.8	67
8	Structureâ€“activity relationships and molecular modelling of new 5-arylidene-4-thiazolidinone derivatives as aldose reductase inhibitors and potential anti-inflammatory agents. European Journal of Medicinal Chemistry, 2014, 81, 1-14.	5.5	63
9	Solution structure of human calcitonin in membrane-mimetic environment: The role of the amphipathic helix. Proteins: Structure, Function and Bioinformatics, 1998, 32, 314-323.	2.6	62
10	New role for leucyl aminopeptidase in glutathione turnover. Biochemical Journal, 2004, 378, 35-44.	3.7	58
11	Identification and characterization of phytocannabinoids as novel dual PPARÎ±/Î³ agonists by a computational and in vitro experimental approach. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 586-597.	2.4	55
12	Minimalist Hybrid Ligand/Receptor-Based Pharmacophore Model for CXCR4 Applied to a Small-Library of Marine Natural Products Led to the Identification of Phidianidine A as a New CXCR4 Ligand Exhibiting Antagonist Activity. ACS Chemical Biology, 2013, 8, 2762-2770.	3.4	54
13	Stability and structure of formamide and urea dimers in aqueous solution. A theoretical study. Journal of the Chemical Society Faraday Transactions I, 1989, 85, 621.	1.0	50
14	Structural Determinants of Salmon Calcitonin Bioactivity. Journal of Biological Chemistry, 2006, 281, 24193-24203.	3.4	50
15	Sensing marine biomolecules: smell, taste, and the evolutionary transition from aquatic to terrestrial life. Frontiers in Chemistry, 2014, 2, 92.	3.6	50
16	Conversion of Enkephalin and Dermorphin into delta-Selective Opioid Antagonists by Single-Residue Substitution. FEBS Journal, 1994, 224, 241-247.	0.2	48
17	Probing the Dimeric Structure of Porcine Aminoacylase 1 by Mass Spectrometric and Modeling Procedures. Biochemistry, 2003, 42, 4430-4443.	2.5	47
18	Taste and smell in aquatic and terrestrial environments. Natural Product Reports, 2017, 34, 496-513.	10.3	45

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19	New insights on ?/? selectivity of opioid peptides: Conformational analysis of deltorphin analogues. Biopolymers, 1991, 31, 751-760.	2.4	44
20	SDS-resistant Active and Thermostable Dimers Are Obtained from the Dissociation of Homotetrameric Î²-Glycosidase from Hyperthermophilic Sulfolobus solfataricus in SDS. Journal of Biological Chemistry, 2002, 277, 44050-44060.	3.4	43
21	Chemical modification of pectin: environmental friendly process for new potential material development. Polymer Chemistry, 2011, 2, 800.	3.9	43
22	Multiple Conformations and Proline cis-trans Isomerization in Salmon Calcitonin: A Combined Nuclear Magnetic Resonance, Distance Geometry, and Molecular Mechanics Study. Biochemistry, 1994, 33, 10754-10762.	2.5	40
23	A left-handed Î±-helix containing both L- and D-amino acids: The solution structure of the antimicrobial lipodepsipeptide tolaasin. Proteins: Structure, Function and Bioinformatics, 2003, 52, 534-543.	2.6	38
24	Molecular modeling study for the binding of zonisamide and topiramate to the human mitochondrial carbonic anhydrase isoform VA. Bioorganic and Medicinal Chemistry, 2007, 15, 4152-4158.	3.0	37
25	The (Poly)Pharmacology of Cannabidiol in Neurological and Neuropsychiatric Disorders: Molecular Mechanisms and Targets. International Journal of Molecular Sciences, 2021, 22, 4876.	4.1	37
26	Physical and Water Sorption Properties of Chemically Modified Pectin with an Environmentally Friendly Process. Biomacromolecules, 2011, 12, 2311-2318.	5.4	36
27	A new general form of molecular force fields. Application to intra- and interresidue interactions in peptides. Journal of the American Chemical Society, 1992, 114, 9085-9093.	13.7	35
28	Conformational analysis of an opioid peptide in solvent media that mimic cytoplasm viscosity. Biopolymers, 1992, 32, 367-372.	2.4	34
29	Conformational flexibility in calcitonin: the dynamic properties of human and salmon calcitonin in solution. Journal of Biomolecular NMR, 1999, 13, 161-174.	2.8	34
30	Metal Ion Substitution in the Catalytic Site Greatly Affects the Binding of Sulfhydryl-Containing Compounds to Leucyl Aminopeptidase,. Biochemistry, 2006, 45, 3226-3234.	2.5	34
31	Structure and Absolute Stereochemistry of Syphonoside, a Unique Macrocyclic Glycoterpenoid from Marine Organisms. Journal of Organic Chemistry, 2007, 72, 5625-5630.	3.2	31
32	Structural Analysis of BldR from Sulfolobus solfataricus Provides Insights into the Molecular Basis of Transcriptional Activation in Archaea by MarR Family Proteins. Journal of Molecular Biology, 2009, 388, 559-569.	4.2	31
33	A New Cacospongionolide Derivative from the SpongeFasciospongia cavernosa. Journal of Natural Products, 1999, 62, 1316-1318.	3.0	29
34	Modularity and homology: modelling of the titin type I modules and their interfaces. Journal of Molecular Biology, 2001, 311, 283-296.	4.2	29
35	Structural Features of Distinctin Affecting Peptide Biological and Biochemical Properties. Biochemistry, 2008, 47, 7888-7899.	2.5	29
36	Converting the Highly Amyloidogenic Human Calcitonin into a Powerful Fibril Inhibitor by Three-dimensional Structure Homology with a Non-amyloidogenic Analogue. Journal of Biological Chemistry, 2011, 286, 2707-2718.	3.4	29

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37	Tetrahydroisoquinoline-Derived Urea and 2,5-Diketopiperazine Derivatives as Selective Antagonists of the Transient Receptor Potential Melastatin 8 (TRPM8) Channel Receptor and Antiprostate Cancer Agents. Journal of Medicinal Chemistry, 2016, 59, 5661-5683.	6.4	29
38	Probing membrane topology of the antimicrobial peptide distinctin by solid-state NMR spectroscopy in zwitterionic and charged lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 34-40.	2.6	28
39	Design of Î¼ selective opioid dipeptide antagonists. FEBS Letters, 1997, 417, 141-144.	2.8	27
40	Fishing for Targets of Alien Metabolites: A Novel Peroxisome Proliferator-Activated Receptor (PPAR) Agonist from a Marine Pest. Marine Drugs, 2018, 16, 431.	4.6	27
41	Conformational sampling of bioactive conformers: a low-temperature NMR study of15N-Leuâ€“enkephalin. , 1998, 4, 253-265.		25
42	Air oxidation method employed for the disulfide bond formation of natural and synthetic peptides. Amino Acids, 2015, 47, 1507-1515.	2.7	24
43	Solution Conformation of CCK9, a Cholecystokinin Analog. Biochemical and Biophysical Research Communications, 1993, 190, 741-746.	2.1	23
44	A molecular dynamics study of associations in solution. an NPT simulation of the urea dimer in water. Chemical Physics Letters, 1987, 140, 401-405.	2.6	21
45	Synthesis, biological activity, and conformational analysis of [pGlu6, N-MePhe8, Aib9] substance P (6-11): A selective agonist for the NK-3 receptor. Biopolymers, 1993, 33, 915-926.	2.4	21
46	Single solution phase conformation of new antiproliferative cembranes. Tetrahedron, 1999, 55, 1143-1152.	1.9	21
47	Structureâ€“activity relationships of fraxamoside as an unusual xanthine oxidase inhibitor. Journal of Enzyme Inhibition and Medicinal Chemistry, 2017, 32, 345-354.	5.2	21
48	Solution structure of human calcitonin in membrane-mimetic environment: the role of the amphipathic helix. Proteins: Structure, Function and Bioinformatics, 1998, 32, 314-23.	2.6	21
49	A SPR strategy for high-throughput ligand screenings based on synthetic peptides mimicking a selected subdomain of the target protein: A proof of concept on HER2 receptor. Bioorganic and Medicinal Chemistry, 2009, 17, 7015-7020.	3.0	20
50	Identification and Characterization of Cannabimovone, a Cannabinoid from Cannabis sativa, as a Novel PPARÎ³ Agonist via a Combined Computational and Functional Study. Molecules, 2020, 25, 1119.	3.8	20
51	Conformational analysis of potent and very selective Î´ opioid dipeptide antagonists. FEBS Letters, 1995, 377, 363-367.	2.8	19
52	A new triple-stranded Î±-helical bundle in solution: the assembling of the cytosolic tail of MHC-associated invariant chain. Structure, 1997, 5, 1453-1464.	3.3	19
53	Modulation of aldose reductase activity through S-thiolation by physiological thiols. Chemico-Biological Interactions, 2001, 130-132, 597-608.	4.0	19
54	Cannabitwinol, a Dimeric Phytocannabinoid from Hemp, Cannabis sativa L., Is a Selective Thermo-TRP Modulator. Journal of Natural Products, 2020, 83, 2727-2736.	3.0	19

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55	N-palmitoyl-D-glucosamine, A Natural Monosaccharide-Based Glycolipid, Inhibits TLR4 and Prevents LPS-Induced Inflammation and Neuropathic Pain in Mice. International Journal of Molecular Sciences, 2021, 22, 1491.	4.1	19
56	New antitumour cyclic astin analogues: synthesis, conformation and bioactivity. Journal of Peptide Science, 2004, 10, 92-102.	1.4	18
57	Structural Features in EIAV NCp11:â€‰ A Lentivirus Nucleocapsid Protein with a Short Linker. Biochemistry, 2006, 45, 5517-5526.	2.5	17
58	Structural Requirements for Proinflammatory Activity of Porin P2 Loop 7 from Haemophilus influenzae. Biochemistry, 2006, 45, 4491-4501.	2.5	17
59	Solution conformation of tuftsin. Biochemistry, 1992, 31, 9581-9586.	2.5	16
60	Thiol/Disulfide Interconversion in Bovine Lens Aldose Reductase Induced by Intermediates of Glutathione Turnoverâ€. Biochemistry, 2001, 40, 11985-11994.	2.5	16
61	Î´-Selective Opioid Peptides Containing a Single Aromatic Residue in the Message Domain: An NMR Conformational Analysis. Journal of Peptide Science, 1996, 2, 290-308.	1.4	15
62	Interactions of GFAP with ceftriaxone and phenytoin: SRCD and molecular docking and dynamic simulation. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 2239-2248.	2.4	15
63	Neuroglobinâ€“prion protein interaction: what's the function?. Journal of Peptide Science, 2011, 17, 387-391.	1.4	14
64	In Silico Identification and Experimental Validation of Novel Anti-Alzheimerâ€™s Multitargeted Ligands from a Marine Source Featuring a â€œ2-Aminoimidazole plus Aromatic Groupâ€•Scaffold. ACS Chemical Neuroscience, 2018, 9, 1290-1303.	3.5	14
65	Exploring protein interiors: The role of a buried histidine in the KH module fold. Proteins: Structure, Function and Bioinformatics, 1999, 34, 484-496.	2.6	13
66	Patatin-like lipolytic acyl hydrolases and galactolipid metabolism in marine diatoms of the genus Pseudo-nitzschia. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 181-190.	2.4	13
67	2-Pentadecyl-2-oxazoline ameliorates memory impairment and depression-like behaviour in neuropathic mice: possible role of adrenergic alpha2- and H3 histamine autoreceptors. Molecular Brain, 2021, 14, 28.	2.6	13
68	Solution structure of nociceptin peptides. Journal of Peptide Science, 2002, 8, 497-509.	1.4	12
69	Taste and Smell: A Unifying Chemosensory Theory. Quarterly Review of Biology, 2022, 97, 69-94.	0.1	12
70	Elongation of the Hydrophobic Chain as a Molecular Switch: Discovery of Capsaicin Derivatives and Endogenous Lipids as Potent Transient Receptor Potential Vanilloid Channel 2 Antagonists. Journal of Medicinal Chemistry, 2018, 61, 8255-8281.	6.4	11
71	In Silico Identification and Experimental Validation of (â˜)-Muqubilin A, a Marine Norterpene Peroxide, as PPARÎ±/Î³-RXRÎ± Agonist and RARÎ± Positive Allosteric Modulator. Marine Drugs, 2019, 17, 110.	4.6	11
72	Design, Synthesis and In Vitro Experimental Validation of Novel TRPV4 Antagonists Inspired by Labdane Diterpenes. Marine Drugs, 2020, 18, 519.	4.6	11

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73	Potent Cytotoxic Analogs of Amphidinolides from the Atlantic Octocoral Stragulum bicolor. Marine Drugs, 2019, 17, 58.	4.6	10
74	Kinase recognition by calmodulin: modeling the interaction with the autoinhibitory region of human cardiac titin kinase11Edited by J. Thornton. Journal of Molecular Biology, 2001, 306, 81-95.	4.2	8
75	Conformational Features of Human Melanin-Concentrating Hormone: An NMR and Computational Analysis. ChemBioChem, 2003, 4, 73-81.	2.6	8
76	Influence of conformational flexibility on biological activity in cyclic astin analogues. Biopolymers, 2004, 76, 477-484.	2.4	8
77	Structural characterization of the functional regions in the archaeal protein Sso7d. Proteins: Structure, Function and Bioinformatics, 2007, 67, 189-197.	2.6	8
78	Isolation of Chamigrene Sesquiterpenes and Absolute Configuration of Isoobtusadiene from the Brittle Star Ophionereis reticulata. Journal of Natural Products, 2017, 80, 3049-3053.	3.0	8
79	Identification and Characterization of Cannabidiol as an OX1R Antagonist by Computational and In Vitro Functional Validation. Biomolecules, 2021, 11, 1134.	4.0	8
80	Chaperone-like effect of ceftriaxone on HEWL aggregation: A spectroscopic and computational study. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 1317-1326.	2.4	6
81	Pain peptides. Solution structure of orphanin FQ2. FEBS Letters, 2000, 473, 157-160.	2.8	5
82	Effects induced by mono- and divalent cations on protein regions responsible for thermal adaptation in ï¿½-glycosidase from Sulfolobus solfataricus. European Biophysics Journal, 2004, 33, 38-49.	2.2	5
83	A microscopic approach to the structure and thermodynamic properties of peptides and proteins. Thermochimica Acta, 1990, 162, 141-154.	2.7	4
84	Assignment and Secondary-Structure Determination of Monomeric Bovine Seminal Ribonuclease Employing Computer-Assisted Evaluation of Homonuclear Three-Dimensional 1H-NMR Spectra. FEBS Journal, 1995, 229, 494-502.	0.2	4
85	The Suitability of Fishes as Models for Studying Appetitive Behavior in Vertebrates. Results and Problems in Cell Differentiation, 2018, 65, 423-438.	0.7	4
86	Identification of the hydantoin alkaloids parazoanthines as novel CXCR4 antagonists by computational and in vitro functional characterization. Bioorganic Chemistry, 2020, 105, 104337.	4.1	4
87	Conformational analysis of deltorphin I analogs containing alpha disubstituted residues in the message domain. , 1995, , 630-631.		4
88	Solution structure of deltorphin I at 265 K: a quantitative NMR study. Peptide Research, 1992, 5, 48-55.	0.2	4
89	Thermodynamic and spectroscopic studies on the protonation and Cu2+ complex formation of a synthetic amino diacid: (3-aminopropyl)malonic acid. Journal of the Chemical Society Dalton Transactions, 1988, , 1273.	1.1	3
90	Solution conformation of câ€[Glnâ€Trpâ€Pheâ€Glyâ€Leuâ€Met], a NKâ€2 tachykinin antagonist. International Journal of Peptide and Protein Research, 1994, 44, 556-561.	0.1	3

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91	Can Intelligence Gradually Evolve in a Shell?. Trends in Ecology and Evolution, 2019, 34, 689-690.	8.7	3
92	The Combined Effect of Branching and Elongation on the Bioactivity Profile of Phytocannabinoids. Part I: Thermo-TRPs. Biomedicines, 2021, 9, 1070.	3.2	3
93	Solution Structure of Casokefamide. Biochemical and Biophysical Research Communications, 1993, 191, 853-859.	2.1	2
94	Zofenoprilat-Glutathione Mixed Disulfide as a Specific S-Thiolating Agent of Bovine Lens Aldose Reductase. Antioxidants and Redox Signaling, 2005, 7, 841-848.	5.4	2
95	Spectroscopy data of ceftriaxone-lysozyme interaction and computational studies. Data in Brief, 2018, 18, 1808-1818.	1.0	2
96	FAAH-Catalyzed Câ€“C Bond Cleavage of a New Multitarget Analgesic Drug. ACS Chemical Neuroscience, 2019, 10, 424-437.	3.5	2
97	Discovery of a Remarkable Methyl Shift Effect in the Vanilloid Activity of Triterpene Amides. Journal of Natural Products, 2020, 83, 3476-3481.	3.0	2
98	Nonempirical cluster model study of the on-top chemisorption of fluorine and chlorine on C(111) surface. Solid State Communications, 1988, 65, 945-947.	1.9	1
99	Solution structure of human calcitonin in membraneâ€mimetic environment: The role of the amphipathic helix. Proteins: Structure, Function and Bioinformatics, 1998, 32, 314-323.	2.6	1
100	Exploring protein interiors: The role of a buried histidine in the KH module fold. , 1999, 34, 484.		1
101	Conformation activity relationship of deltorphin I: A NMR study in viscous media. , 1992, , 115-116.		1
102	Computational Methods in Mass Spectrometry-Based Protein 3D Studies. , 2011, , .		0
103	332 A New CXCR4 Receptor Antagonist â€“ Effects on Cell Growth and Tumor Microenvironment in a Glioma Model. European Journal of Cancer, 2012, 48, S81.	2.8	0
104	P01.16 * MICROGLIA/MACROPHAGES AS CELLULAR TARGET OF NOVEL CXCR4 ANTAGONIST IN A GLIOMA MODEL. Neuro-Oncology, 2014, 16, ii30-ii30.	1.2	0
105	The crystal structure of the (Zn/Zn)bLAP/zofenoprilat complex. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, c215-c216.	0.3	0
106	Abstract 394: Rapid and persistant neutrophil mobilization by novel CXCR4 peptide antagonists. , 2011, , .		0
107	Self-Inclusion Complexes of Monofunctionalized Beta-Cyclodextrins as Hostâ€“Guest Interaction Model Systems and Simple and Sensitive Testbeds for Implicit Solvation Methods. , 2015, , 271-296.		0