

Andr s Perczel

List of Publications by Year in descending order

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81
papers

2,244
citations

257450

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243625

44
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85
all docs

85
docs citations

85
times ranked

2363
citing authors

#	ARTICLE	IF	CITATIONS
1	Peptide models. 1. Topology of selected peptide conformational potential energy surfaces (glycine and) Tj ETQq1	10.784314	149249
2	Mutation-dependent recessive inheritance of NPHS2-associated steroid-resistant nephrotic syndrome. Nature Genetics, 2014, 46, 299-304.	21.4	134
3	Conformational analysis of pseudocyclic hexapeptides based on quantitative circular dichroism (CD), NOE, and x-ray data. The pure CD spectra of type I and type II .beta.-turns. Journal of the American Chemical Society, 1991, 113, 9772-9784.	13.7	115
4	Vicinal disulfide turns. Protein Engineering, Design and Selection, 2003, 16, 637-639.	2.1	107
5	Peptide models 6. New .beta.-turn conformations from ab initio calculations confirmed by x-ray data of proteins. Journal of the American Chemical Society, 1993, 115, 4849-4858.	13.7	99
6	Î±- and 310-Helix Interconversion: A Quantum-Chemical Study on Polyalanine Systems in the Gas Phase and in Aqueous Solvent. Journal of the American Chemical Society, 2001, 123, 6054-6060.	13.7	96
7	Turns. , 1996, , 285-380.		83
8	Structure and stability of Î²-pleated sheets. Journal of Computational Chemistry, 2005, 26, 1155-1168.	3.3	68
9	Toward a computed peptide structure database: The role of a universal atomic numbering system of amino acids in peptides and internal hierarchy of database. International Journal of Quantum Chemistry, 2002, 90, 933-968.	2.0	54
10	Peptide models. XXXIII. Extrapolation of low-level Hartree-Fock data of peptide conformation to large basis set SCF, MP2, DFT, and CCSD(T) results. The Ramachandran surface of alanine dipeptide computed at various levels of theory. Journal of Computational Chemistry, 2003, 24, 1026-1042.	3.3	54
11	Dead-End Street of Protein Folding: Thermodynamic Rationale of Amyloid Fibril Formation. Journal of the American Chemical Society, 2007, 129, 14959-14965.	13.7	53
12	Cooperation between a Salt Bridge and the Hydrophobic Core Triggers Fold Stabilization in a Trp-Cage Miniprotein. Biochemistry, 2008, 47, 1007-1016.	2.5	53
13	Peptide Models. 18. Hydroxymethyl Side-Chain Induced Backbone Conformational Shifts of l-Serine Amide. All ab Initio Conformers of For-l-Ser-NH2. Journal of the American Chemical Society, 1996, 118, 7809-7817.	13.7	49
14	Structural Insights into the Trp-Cage Folding Intermediate Formation. Chemistry - A European Journal, 2013, 19, 2628-2640.	3.3	49
15	On the flexibility of Î²-peptides. Journal of Computational Chemistry, 2004, 25, 285-307.	3.3	47
16	Investigation of penetratin peptides Part 1. The environment dependent conformational properties of penetratin and two of its derivatives. Journal of Peptide Science, 2002, 8, 151-171.	1.4	45
17	Toward a rational design of Î²-peptide structures. Journal of Computational Chemistry, 2006, 27, 20-38.	3.3	43
18	The Piwi-RNA pathway: road to immortality. Aging Cell, 2017, 16, 906-911.	6.7	39

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19	Peptide models XVI. The identification of selected HCO ⁺ L-SER-NH ₂ conformers via a systematic grid search using ab initio potential energy surfaces. <i>Journal of Computational Chemistry</i> , 1996, 17, 821-834.	3.3	37
20	Peptide models XXIII. Conformational model for polar side-chain containing amino acid residues: A comprehensive analysis of RHF, DFT, and MP2 properties of HCO-L-SER-NH ₂ . <i>Journal of Computational Chemistry</i> , 2000, 21, 626-655.	3.3	37
21	Cooperativity network of Trp ϵ age mini-proteins: probing salt ϵ bridges. <i>Journal of Peptide Science</i> , 2011, 17, 610-619.	1.4	34
22	Synthesis and conformational analysis of N-glycopeptides. II. CD, molecular dynamics, and nmr spectroscopic studies on linear N-glycopeptides. <i>Biopolymers</i> , 1993, 33, 665-685.	2.4	31
23	Searching for the simplest structural units to describe the three-dimensional structure of proteins. <i>International Reviews in Physical Chemistry</i> , 1995, 14, 127-168.	2.3	31
24	Toward direct determination of conformations of protein building units from multidimensional NMR experiments I. A theoretical case study of For-Gly-NH ₂ and For-L-Ala-NH ₂ . <i>Journal of Computational Chemistry</i> , 2000, 21, 882-900.	3.3	28
25	Vicinal disulfide bridge conformers by experimental methods and by ab initio and DFT molecular computations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 55, 152-168.	2.6	28
26	Intrinsically Stable Secondary Structure Elements of Proteins: A Comprehensive Study of Folding Units of Proteins by Computation and by Analysis of Data Determined by X-ray Crystallography. <i>Chemistry - A European Journal</i> , 2003, 9, 5332-5342.	3.3	26
27	¹ H, ¹⁵ N backbone assignment and comparative analysis of the wild type and G12C, G12D, G12V mutants of K-Ras bound to GDP at physiological pH. <i>Biomolecular NMR Assignments</i> , 2020, 14, 1-7.	0.8	26
28	Structural impact of GTP binding on downstream KRAS signaling. <i>Chemical Science</i> , 2020, 11, 9272-9289.	7.4	25
29	Challenging drug target for Parkinson's disease: Pathological complex of the chameleon TPPP/p25 and alpha-synuclein proteins. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 310-323.	3.8	23
30	Rational Design of α -Helix-Stabilized Exendin-4 Analogues. <i>Biochemistry</i> , 2014, 53, 3540-3552.	2.5	21
31	Peptide models. XIV. Ab initio study on the role of side-chain backbone interaction stabilizing the building unit of right- and left-handed helices in peptides and proteins. <i>International Journal of Quantum Chemistry</i> , 1997, 61, 797-814.	2.0	20
32	Reconciling the lock ϵ and ϵ key and dynamic views of canonical serine protease inhibitor action. <i>FEBS Letters</i> , 2010, 584, 203-206.	2.8	20
33	Assessment of Tractable Cysteines for Covalent Targeting by Screening Covalent Fragments. <i>ChemBioChem</i> , 2021, 22, 743-753.	2.6	19
34	DuckCov: a Dynamic Undocking ϵ Based Virtual Screening Protocol for Covalent Binders. <i>ChemMedChem</i> , 2019, 14, 1011-1021.	3.2	18
35	Peptide models XXXI. Conformational properties of hydrophobic residues shaping the core of proteins. An ab initio study of N-formyl-L-valinamide and N-formyl-L-phenylalaninamide. <i>Journal of Computational Chemistry</i> , 2001, 22, 732-751.	3.3	17
36	Protein Dynamics as Reported by NMR. <i>Annual Reports on NMR Spectroscopy</i> , 2010, , 35-75.	1.5	17

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37	Penetratin analogues acting as antifungal agents. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 370-377.	5.5	17
38	C-3 epimers of sugar amino acids as foldameric building blocks: improved synthesis, useful derivatives, coupling strategies. <i>Amino Acids</i> , 2017, 49, 223-240.	2.7	17
39	Bacterial expression and/or solid phase peptide synthesis of 20-40 amino acid long polypeptides and miniproteins, the case study of Class B GPCR ligands. <i>Current Protein and Peptide Science</i> , 2016, 17, 147-155.	1.4	17
40	β -Chimera peptide synthesis with cyclic β -sugar amino acids: the efficient coupling protocol. <i>Amino Acids</i> , 2019, 51, 669-678.	2.7	16
41	Dynamically encoded reactivity of Ras enzymes: opening new frontiers for drug discovery. <i>Cancer and Metastasis Reviews</i> , 2020, 39, 1075-1089.	5.9	16
42	Stability issues of covalently and noncovalently bonded peptide subunits. <i>Journal of Computational Chemistry</i> , 2004, 25, 1084-1100.	3.3	15
43	C-terminal oligomerization of podocin mediates interallelic interactions. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 2448-2457.	3.8	15
44	The Route from the Folded to the Amyloid State: Exploring the Potential Energy Surface of a Drug-Like Miniprotein. <i>Chemistry - A European Journal</i> , 2020, 26, 1968-1978.	3.3	14
45	Cost-Effective Flow Peptide Synthesis: Metamorphosis of HPLC. <i>Organic Process Research and Development</i> , 2021, 25, 182-191.	2.7	14
46	A search for the ideal type I β -turn. , 1996, 38, 723-732.		13
47	Penetratin and Derivatives Acting as Antibacterial Agents. <i>Chemical Biology and Drug Design</i> , 2013, 82, 167-177.	3.2	13
48	Multiple fuzzy interactions in the moonlighting function of thymosin- β 4. <i>Intrinsically Disordered Proteins</i> , 2013, 1, e26204.	1.9	12
49	Interplay of Structural Disorder and Short Binding Elements in the Cellular Chaperone Function of Plant Dehydrin ERD14. <i>Cells</i> , 2020, 9, 1856.	4.1	12
50	Unwanted hydrolysis or β -peptide bond formation: how long should the rate-limiting coupling step take?. <i>RSC Advances</i> , 2019, 9, 30720-30728.	3.6	11
51	The Budapest Amyloid Predictor and Its Applications. <i>Biomolecules</i> , 2021, 11, 500.	4.0	11
52	Omicron Binding Mode: Contact Analysis and Dynamics of the Omicron Receptor-Binding Domain in Complex with ACE2. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 3844-3853.	5.4	11
53	The inherent flexibility of peptides and protein fragments quantitized by CD in conjunction with CCA+. <i>Journal of Peptide Science</i> , 2009, 15, 738-752.	1.4	10
54	Foldamer Stability Coupled to Aggregation Propensity of Elongated Trp-Cage Miniproteins. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 3513-3522.	2.4	10

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55	Four faces of the interaction between ions and aromatic rings. <i>Journal of Computational Chemistry</i> , 2017, 38, 1762-1773.	3.3	9
56	Small Peptides Derived from Penetratin as Antibacterial Agents. <i>Archiv Der Pharmazie</i> , 2016, 349, 242-251.	4.1	8
57	Origin of problems related to Staudinger reduction in carbopeptoid syntheses. <i>Amino Acids</i> , 2016, 48, 2619-2633.	2.7	7
58	Hydration shell differentiates folded and disordered states of a Trp-cage miniprotein, allowing characterization of structural heterogeneity by wide-line NMR measurements. <i>Scientific Reports</i> , 2019, 9, 2947.	3.3	7
59	Protein Aggregation in a Nutshell: The Splendid Molecular Architecture of the Dreaded Amyloid Fibrils. <i>Current Protein and Peptide Science</i> , 2019, 20, 1077-1088.	1.4	7
60	Toward direct determination of conformations of protein building units from multidimensional NMR experiments. V. NMR chemical shielding analysis of N-formyl-serinamide, a model for polar side-chain containing peptides. <i>Journal of Computational Chemistry</i> , 2003, 24, 1157-1171.	3.3	6
61	Aromatic Cluster Sensor of Protein Folding: Near-UV Electronic Circular Dichroism Bands Assigned to Fold Compactness. <i>Chemistry - A European Journal</i> , 2016, 22, 13871-13883.	3.3	6
62	Approaches to Pyranuronic β -Sugar Amino Acid Building Blocks of Peptidosaccharide Foldamers. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 355-361.	2.4	6
63	Biochemical and pharmacological characterization of three opioid-nociceptin hybrid peptide ligands reveals substantially differing modes of their actions. <i>Peptides</i> , 2018, 99, 205-216.	2.4	6
64	Compactness of Protein Folds Alters Disulfide Bond Reducibility by Three Orders of Magnitude: A Comprehensive Kinetic Case Study on the Reduction of Differently Sized Tryptophan Cage Model Proteins. <i>ChemBioChem</i> , 2020, 21, 681-695.	2.6	5
65	Synthesis of chimera oligopeptide including furanoid β -sugar amino acid derivatives with free OHs: mild but successful removal of the 1,2-O-isopropylidene from the building block. <i>Amino Acids</i> , 2021, 53, 281-294.	2.7	5
66	Cryo-EM structure of acylpeptide hydrolase reveals substrate selection by multimerization and a multi-state serine-protease triad. <i>Chemical Science</i> , 2022, 13, 7132-7142.	7.4	5
67	Predictable Conformational Diversity in Foldamers of Sugar Amino Acids. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 757-768.	5.4	4
68	pKa-optimized catalysis in serine proteinases, an ab initio study on the catalytic His. <i>International Journal of Quantum Chemistry</i> , 2007, 107, 2178-2183.	2.0	3
69	Configuration-Controlled Crystal and/or Gel Formation of Protected α -Glucosamines Supported by Promiscuous Interaction Surfaces and a Conformationally Heterogeneous Solution State. <i>Chemistry - A European Journal</i> , 2020, 26, 11643-11655.	3.3	3
70	Bacterial fermentation and isotope labelling optimized for amyloidogenic proteins. <i>Microbial Biotechnology</i> , 2021, 14, 1107-1119.	4.2	3
71	Structural Water Stabilizes Protein Motifs in Liquid Protein Phase: The Folding Mechanism of Short β -Sheets Coupled to Phase Transition. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8595.	4.1	3
72	Application of Sugar Amino Acids: Flow Chemistry Used for β -Sugar-Chimera Synthesis. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 6071-6083.	2.4	3

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73	Assignment of Vibrational Circular Dichroism Cross-Referenced Electronic Circular Dichroism Spectra of Flexible Foldamer Building Blocks: Towards Assigning Pure Chiroptical Properties of Foldamers. <i>Chemistry - A European Journal</i> , 2019, 25, 14890-14900.	3.3	2
74	Off-pathway 3D-structure provides protection against spontaneous Asn/Asp isomerization: shielding proteins Achilles heel. <i>Quarterly Reviews of Biophysics</i> , 2020, 53, e2.	5.7	2
75	Hydrogen-Bonding Network Anchors the Cyclic Form of Sugar Arylhydrazones. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3419-3426.	2.4	1
76	How weak an acid can be? Variations of H-bond and/or van der Waals Interaction of Weak Acids. <i>Structural Chemistry</i> , 2017, 28, 371-378.	2.0	1
77	Solution Structure and Acid-Base Properties of Reduced β -Conotoxin M1. <i>Chemistry and Biodiversity</i> , 2021, 18, e2100464.	2.1	1
78	Peptide models. XIV. Ab initio study on the role of side-chain backbone interaction stabilizing the building unit of right- and left-handed helices in peptides and proteins. , 1997, 61, 797.		1
79	Directed Evolution-Driven Increase of Structural Plasticity Is a Prerequisite for Binding the Complement Lectin Pathway Blocking MASP-Inhibitor Peptides. <i>ACS Chemical Biology</i> , 2022, , .	3.4	1
80	Corrigendum to "Calcium-induced tripartite binding of intrinsically disordered calpastatin to its cognate enzyme, calpain" [FEBS Lett. 582 (2008) 2149-2154]. <i>FEBS Letters</i> , 2008, 582, 2816-2816.	2.8	0
81	The Route from the Folded to the Amyloid State: Exploring the Potential Energy Surface of a Drug-Like Mini-protein. <i>Chemistry - A European Journal</i> , 2020, 26, 1893-1893.	3.3	0