SÃ¡ndor Lovas

List of Publications by Year
in descending order

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82	2,234	346980	263392
papers	citations	22 h-index	45 g-index

86	86	86	2600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Targeting 14-3-3Îµ activates apoptotic signaling to prevent cutaneous squamous cell carcinoma. Carcinogenesis, 2021, 42, 232-242.	1.3	6
2	DksA-dependent regulation of RpoS contributes to Borrelia burgdorferi tick-borne transmission and mammalian infectivity. PLoS Pathogens, 2021, 17, e1009072.	2.1	4
3	Characterization of quinoxaline derivatives for protection against iatrogenically induced hearing loss. JCI Insight, 2021, 6, .	2.3	6
4	AZD5438-PROTAC: A selective CDK2 degrader that protects against cisplatin- and noise-induced hearing loss. European Journal of Medicinal Chemistry, 2021, 226, 113849.	2.6	17
5	Targeting 14-3-3Îµ-CDC25A interactions to trigger apoptotic cell death in skin cancer. Oncotarget, 2020, 11, 3267-3278.	0.8	8
6	Effects of Selective Substitution of Cysteine Residues on the Conformational Properties of Chlorotoxin Explored by Molecular Dynamics Simulations. International Journal of Molecular Sciences, 2019, 20, 1261.	1.8	6
7	Effects of force fields on the conformational and dynamic properties of amyloid Î²(1â€40) dimer explored by replica exchange molecular dynamics simulations. Proteins: Structure, Function and Bioinformatics, 2018, 86, 279-300.	1.5	23
8	Structural properties of amyloid Î²(1â€40) dimer explored by replica exchange molecular dynamics simulations. Proteins: Structure, Function and Bioinformatics, 2017, 85, 1024-1045.	1.5	18
9	Proline-rich Antimicrobial Peptides Optimized for Binding to Escherichia coli Chaperone DnaK. Protein and Peptide Letters, 2016, 23, 1061-1071.	0.4	21
10	Glutamate Transporter Homolog-based Model Predicts That Anion-Ï€ Interaction Is the Mechanism for the Voltage-dependent Response of Prestin. Journal of Biological Chemistry, 2015, 290, 24326-24339.	1.6	9
11	Optimization of adiponectinâ€derived peptides for inhibition of cancer cell growth and signaling. Biopolymers, 2015, 104, 156-166.	1.2	20
12	Prestin at year 14: Progress and prospect. Hearing Research, 2014, 311, 25-35.	0.9	50
13	Conformational Sampling Techniques. Current Pharmaceutical Design, 2014, 20, 3303-3313.	0.9	16
14	Molecular Mechanism of Misfolding and Aggregation of AÎ²(13â€“23). Journal of Physical Chemistry B, 2013, 117, 6175-6186.	1.2	46
15	A motif of eleven amino acids is a structural adaptation that facilitates motor capability of eutherian prestin. Journal of Cell Science, 2012, 125, 1039-1047.	1.2	18
16	Hexapeptide fragment of carcinoembryonic antigen which acts as an agonist of heterogeneous ribonucleoprotein M. Journal of Peptide Science, 2012, 18, 252-260.	0.8	11
17	Role of Hsp70 in Cancer Growth and Survival. Protein and Peptide Letters, 2012, 19, 616-624.	0.4	16
18	Single-Molecule Atomic Force Microscopy Force Spectroscopy Study of AÎ²-40 Interactions. Biochemistry, 2011, 50, 5154-5162.	1.2	82

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19	The CLN025 Decapeptide Retains a Î²-Hairpin Conformation in Urea and Guanidinium Chloride. Journal of Physical Chemistry B, 2011, 115, 4971-4981.	1.2	12
20	VCD spectroscopic properties of the Î²â€hairpin forming miniprotein CLN025 in various solvents. Biopolymers, 2010, 93, 442-450.	1.2	19
21	Molecular Dynamics Analysis of the Conformations of a Î²-Hairpin Miniprotein. Journal of Physical Chemistry B, 2010, 114, 3028-3037.	1.2	24
22	Bioactivity of analogs of the N-terminal region of gastrin-17. Peptides, 2009, 30, 2263-2267.	1.2	4
23	The structure of bioactive analogs of the N-terminal region of gastrin-17. Peptides, 2009, 30, 2250-2262.	1.2	8
24	The Production and Role of Gastrin-17 and Gastrin-17-Gly in Gastrointestinal Cancers. Protein and Peptide Letters, 2009, 16, 1504-1518.	0.4	26
25	The Energetics of Weakly Polar Interactions in Model Tripeptides. Advances in Experimental Medicine and Biology, 2009, 611, 79-80.	0.8	3
26	The Impact of Aromatic Residues on the Tertiary Fold of Avian Pancreatic Polypeptide. Advances in Experimental Medicine and Biology, 2009, 611, 89-90.	0.8	3
27	Role of aromatic residues in stabilizing the secondary and tertiary structure of avian pancreatic polypeptide. International Journal of Quantum Chemistry, 2008, 108, 814-819.	1.0	13
28	Evaluation of methods to cap molecular fragments in calculating energies of interaction in avian pancreatic polypeptide. International Journal of Quantum Chemistry, 2008, 108, 1017-1021.	1.0	5
29	Reply to â€œComment on Aromaticâ€Backbone Interactions in Model Î±â€Helical Peptidesâ€• Journal of Computational Chemistry, 2008, 29, 4-7.	1.5	6
30	Calculation of weakly polar interaction energies in polypeptides using density functional and local MÃ¸llerâ€Plesset perturbation theory. Journal of Computational Chemistry, 2008, 29, 1344-1352.	1.5	30
31	The effect of electron correlation on the conformational space of melatonin. Journal of Computational Chemistry, 2008, 29, 1466-1471.	1.5	6
32	Development of glycyl radical parameters for the OPLSâ€AA/L force field. Journal of Computational Chemistry, 2008, 29, 1999-2009.	1.5	10
33	The role of weakly polar and Hâ€bonding interactions in the stabilization of the conformers of FGG, WGG, and YGG; An aqueous phase computational study. Biopolymers, 2008, 89, 1002-1011.	1.2	6
34	Quantum Chemical Quantification of Weakly Polar Interaction Energies in the TC5b Miniprotein. Journal of Physical Chemistry B, 2008, 112, 3503-3508.	1.2	22
35	Conformational Analysis of Ac-NPGQ-NH2 and Ac-VPaH-NH2 by Vibrational Circular Dichroism Spectroscopy Combined with Molecular Dynamics and Quantum Chemical Calculations. Protein and Peptide Letters, 2007, 14, 353-359.	0.4	5
36	Gastrin 1â€“6 promotes growth of colon cancer cells through non-CCK receptors. Peptides, 2007, 28, 632-635.	1.2	6

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37	Optical spectroscopic elucidation of Î²-turns in disulfide bridged cyclic tetrapeptides. Biopolymers, 2007, 85, 1-11.	1.2	15
38	VCD spectroscopic and molecular dynamics analysis of the Trp-cage miniprotein TC5b. Biopolymers, 2007, 88, 427-437.	1.2	16
39	Aromatic-backbone interactions in model Î±-helical peptides. Journal of Computational Chemistry, 2007, 28, 1208-1214.	1.5	37
40	Synthesis and Structure-Activity Relationship of [Nle10]Neurokinin A (4â€“10) Analogs with Constraint in the Backbone and at Position Six. International Journal of Peptide Research and Therapeutics, 2007, 13, 329-336.	0.9	4
41	Antiproliferative Effect of Lamprey Gonadotropin-releasing Hormone III on Cancer Cells from Non-reproductive Organs. , 2006, , 781-782.		0
42	Type II Î²-Turn Formation in Tetrapeptides Evidenced by Vibrational Circular Dichroism Spectroscopy. , 2006, , 708-709.		0
43	Is lGnRH-III the most potent GnRH analog containing only natural amino acids that specifically inhibits the growth of human breast cancer cells?. Journal of Peptide Science, 2006, 12, 714-720.	0.8	13
44	The conformational preference of CÎ±-centered radicals in proteins. Computational and Theoretical Chemistry, 2006, 759, 117-124.	1.5	9
45	Different Signal Responses to Lamprey GnRH-III in Human Cancer Cells. International Journal of Peptide Research and Therapeutics, 2006, 12, 359-364.	0.9	2
46	Avian pancreatic polypeptide fragments refold to native aPP conformation when combined in solution: A CD and VCD study. Biopolymers, 2006, 83, 32-38.	1.2	6
47	Characterization of the Conformational Probability of N-Acetyl-Phenylalanyl-NH2by RHF, DFT, and MP2 Computation and AIM Analyses, Confirmed by Jet-Cooled Infrared Data. Journal of Physical Chemistry A, 2005, 109, 5289-5302.	1.1	32
48	Importance of the central region of lamprey gonadotropin-releasing hormone III in the inhibition of breast cancer cell growth. Peptides, 2005, 26, 419-422.	1.2	17
49	Importance of N- and C-terminal regions of gastrin-Gly for preferential binding to high and low affinity gastrin-Gly receptors. Peptides, 2005, 26, 1207-1212.	1.2	11
50	Molecular Dynamics Simulations of Î²-turn Forming Tetra- and Hexapeptides. Journal of Biomolecular Structure and Dynamics, 2004, 21, 761-770.	2.0	7
51	Aromaticâ^'Backbone Interactions in Î±-Helices. Journal of Physical Chemistry B, 2004, 108, 9287-9296.	1.2	28
52	High and low affinity receptors mediate growth effects of gastrin and gastrin-Gly on DLD-1 human colonic carcinoma cells. FEBS Letters, 2004, 556, 199-203.	1.3	24
53	Fourier transform vibrational circular dichroism as a decisive tool for conformational studies of peptides containing tyrosyl residues. Biopolymers, 2003, 72, 21-24.	1.2	21
54	A modular numbering system of selected oligopeptides for molecular computations: using pre-computed amino acid building blocks. Computational and Theoretical Chemistry, 2003, 666-667, 169-218.	1.5	11

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55	The benefits of a pre-computed amino acid structure database in quantum chemical geometry optimizations of Î²-turns of peptides. Computational and Theoretical Chemistry, 2003, 666-667, 355-359.	1.5	3
56	Influence of Tyrosine on the Electronic Circular Dichroism of Helical Peptides. Journal of Physical Chemistry B, 2003, 107, 8682-8688.	1.2	36
57	A specific binding site for a fragment of the B-loop of epidermal growth factor and related peptides. Peptides, 2002, 23, 97-102.	1.2	2
58	Identification of crucial residues for the antibacterial activity of the proline-rich peptide, pyrrhocoricin. FEBS Journal, 2002, 269, 4226-4237.	0.2	112
59	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.	1.0	54
60	Modulation of NK-2 receptor associated G-protein signaling by alteration of the aromatic residue at position six in neurokinin A analogs. , 2002, , 592-593.		0
61	The Antibacterial Peptide Pyrrhocoricin Inhibits the ATPase Actions of DnaK and Prevents Chaperone-Assisted Protein Folding. Biochemistry, 2001, 40, 3016-3026.	1.2	433
62	Investigation of Aromatic-Backbone Amide Interactions in the Model Peptide Acetyl-Phe-Gly-Gly-N-Methyl Amide Using Molecular Dynamics Simulations and Protein Database Search. Journal of the American Chemical Society, 2001, 123, 11782-11790.	6.6	45
63	Significance of aromatic-backbone amide interactions in protein structure. Proteins: Structure, Function and Bioinformatics, 2001, 43, 373-381.	1.5	85
64	Stabilization of local structures by Ï€â€“CH and aromaticâ€“backbone amide interactions involving prolyl and aromatic residues. Protein Engineering, Design and Selection, 2001, 14, 543-547.	1.0	59
65	DEHYDRATION OF THREONINE ESTERS DURING TOSYLATION. Synthetic Communications, 2001, 31, 3633-3640.	1.1	7
66	Conformational Space Comparison of GnRH and lGnRH-III using Molecular Dynamics, Cluster Analysis and Monte Carlo Thermodynamic Integration. Journal of Biomolecular Structure and Dynamics, 2001, 18, 733-748.	2.0	15
67	Difficulties in coupling to conformationally constrained aromatic amino acids. International Journal of Peptide Research and Therapeutics, 2000, 7, 157-163.	0.1	0
68	Interaction between Heat Shock Proteins and Antimicrobial Peptidesâ€. Biochemistry, 2000, 39, 14150-14159.	1.2	322
69	Secondary Structures and Intramolecular Interactions in Fragments of the B-Loops of Naturally Occurring Analogs of Epidermal Growth Factor. Journal of Biomolecular Structure and Dynamics, 1999, 17, 393-407.	2.0	8
70	Importance of the Aromatic Residue at Position 6 of [Nle10]Neurokinin A(4â˜'10) for Binding to the NK-2 Receptor and Receptor Activation. Journal of Medicinal Chemistry, 1999, 42, 3004-3007.	2.9	10
71	Peptides bind to eosinophils in the rat stomach. , 1998, 250, 172-181.		4
72	Molecular dynamics simulations of epidermal growth factor and transforming growth factor-Î± structures in water. , 1998, 33, 396-407.		5

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73	Development of a High Throughput Functional Assay for Structure-Activity Studies of Neurokinin A Analogs. Journal of Biomolecular Screening, 1998, 3, 183-188.	2.6	5
74	38 NKA, analogs with conformational constraint. Biochemical Society Transactions, 1998, 26, S30-S30.	1.6	1
75	Tritium Labeling of Neuropeptides. , 1997, 73, 219-230.		18
76	Molecular Modeling of Neuropeptides. , 1997, 73, 209-218.		4
77	Synthesis of Gonadotropin-Releasing Hormone III Analogs. Structureâ^'Antitumor Activity Relationships. Journal of Medicinal Chemistry, 1997, 40, 3353-3358.	2.9	33
78	Molecular dynamics simulation of EGF and TGF-Î±: conformation and receptor binding properties. Computational and Theoretical Chemistry, 1997, 398-399, 543-550.	1.5	5
79	Aspartate-Bond Isomerization Affects the Major Conformations of Synthetic Peptides. FEBS Journal, 1994, 226, 917-924.	0.2	50
80	Solvated structure analysis of a conformationally restricted analogue of phenylalanine in a dipeptide model by the AM1-SM2 method. Computational and Theoretical Chemistry, 1994, 311, 297-304.	1.5	7
81	Receptor binding profile of neuropeptide Î³ and its fragments: Comparison with the nonmammalian peptides carassin and ranakinin at three mammalian tachykinin receptors. Peptides, 1993, 14, 771-775.	1.2	20
82	Ranakinin: A Novel NK1 Tachykinin Receptor Agonist Isolated with Neurokinin B from the Brain of the Frog Rana ridibunda. Journal of Neurochemistry, 1991, 57, 2086-2091.	2.1	49