

# Sã¡ndor Lovas

## List of Publications by Year in descending order

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82  
papers

2,234  
citations

304701

22  
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233409

45  
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86  
all docs

86  
docs citations

86  
times ranked

2321  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Antibacterial Peptide Pyrrocoricin Inhibits the ATPase Actions of DnaK and Prevents Chaperone-Assisted Protein Folding. <i>Biochemistry</i> , 2001, 40, 3016-3026.	2.5	433
2	Interaction between Heat Shock Proteins and Antimicrobial Peptides. <i>Biochemistry</i> , 2000, 39, 14150-14159.	2.5	322
3	Identification of crucial residues for the antibacterial activity of the proline-rich peptide, pyrrocoricin. <i>FEBS Journal</i> , 2002, 269, 4226-4237.	0.2	112
4	Significance of aromatic-backbone amide interactions in protein structure. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 43, 373-381.	2.6	85
5	Single-Molecule Atomic Force Microscopy Force Spectroscopy Study of $\hat{A}^2$ -40 Interactions. <i>Biochemistry</i> , 2011, 50, 5154-5162.	2.5	82
6	Stabilization of local structures by $\hat{I}^{\epsilon}$ -CH and aromatic-backbone amide interactions involving prolyl and aromatic residues. <i>Protein Engineering, Design and Selection</i> , 2001, 14, 543-547.	2.1	59
7	Toward a computed peptide structure database: The role of a universal atomic numbering system of amino acids in peptides and internal hierarchy of database. <i>International Journal of Quantum Chemistry</i> , 2002, 90, 933-968.	2.0	54
8	Aspartate-Bond Isomerization Affects the Major Conformations of Synthetic Peptides. <i>FEBS Journal</i> , 1994, 226, 917-924.	0.2	50
9	Prestin at year 14: Progress and prospect. <i>Hearing Research</i> , 2014, 311, 25-35.	2.0	50
10	Ranakinin: A Novel NK1 Tachykinin Receptor Agonist Isolated with Neurokinin B from the Brain of the Frog <i>Rana ridibunda</i> . <i>Journal of Neurochemistry</i> , 1991, 57, 2086-2091.	3.9	49
11	Molecular Mechanism of Misfolding and Aggregation of $\hat{A}^2$ (13 $\hat{\epsilon}$ 23). <i>Journal of Physical Chemistry B</i> , 2013, 117, 6175-6186.	2.6	46
12	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. <i>Journal of the American Chemical Society</i> , 2001, 123, 11782-11790.	13.7	45
13	Aromatic-backbone interactions in model $\hat{I}^{\pm}$ -helical peptides. <i>Journal of Computational Chemistry</i> , 2007, 28, 1208-1214.	3.3	37
14	Influence of Tyrosine on the Electronic Circular Dichroism of Helical Peptides. <i>Journal of Physical Chemistry B</i> , 2003, 107, 8682-8688.	2.6	36
15	Synthesis of Gonadotropin-Releasing Hormone III Analogs. Structure- $\hat{A}$ Antitumor Activity Relationships. <i>Journal of Medicinal Chemistry</i> , 1997, 40, 3353-3358.	6.4	33
16	Characterization of the Conformational Probability of N-Acetyl-Phenylalanyl-NH <sub>2</sub> by RHF, DFT, and MP2 Computation and AIM Analyses, Confirmed by Jet-Cooled Infrared Data. <i>Journal of Physical Chemistry A</i> , 2005, 109, 5289-5302.	2.5	32
17	Calculation of weakly polar interaction energies in polypeptides using density functional and local MÅller-Plesset perturbation theory. <i>Journal of Computational Chemistry</i> , 2008, 29, 1344-1352.	3.3	30
18	Aromatic-Backbone Interactions in $\hat{I}^{\pm}$ -Helices. <i>Journal of Physical Chemistry B</i> , 2004, 108, 9287-9296.	2.6	28

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19	The Production and Role of Gastrin-17 and Gastrin-17-Gly in Gastrointestinal Cancers. <i>Protein and Peptide Letters</i> , 2009, 16, 1504-1518.	0.9	26
20	High and low affinity receptors mediate growth effects of gastrin and gastrin-Gly on DLD-1 human colonic carcinoma cells. <i>FEBS Letters</i> , 2004, 556, 199-203.	2.8	24
21	Molecular Dynamics Analysis of the Conformations of a $\beta$ -Hairpin Miniprotein. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3028-3037.	2.6	24
22	Effects of force fields on the conformational and dynamic properties of amyloid $\beta$ (1-40) dimer explored by replica exchange molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2018, 86, 279-300.	2.6	23
23	Quantum Chemical Quantification of Weakly Polar Interaction Energies in the TC5b Miniprotein. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3503-3508.	2.6	22
24	Fourier transform vibrational circular dichroism as a decisive tool for conformational studies of peptides containing tyrosyl residues. <i>Biopolymers</i> , 2003, 72, 21-24.	2.4	21
25	Proline-rich Antimicrobial Peptides Optimized for Binding to Escherichia coli Chaperone DnaK. <i>Protein and Peptide Letters</i> , 2016, 23, 1061-1071.	0.9	21
26	Receptor binding profile of neuropeptide $\beta$ and its fragments: Comparison with the nonmammalian peptides carassin and ranakinin at three mammalian tachykinin receptors. <i>Peptides</i> , 1993, 14, 771-775.	2.4	20
27	Optimization of adiponectin-derived peptides for inhibition of cancer cell growth and signaling. <i>Biopolymers</i> , 2015, 104, 156-166.	2.4	20
28	VCD spectroscopic properties of the $\beta$ -hairpin forming miniprotein CLN025 in various solvents. <i>Biopolymers</i> , 2010, 93, 442-450.	2.4	19
29	Tritium Labeling of Neuropeptides. , 1997, 73, 219-230.		18
30	A motif of eleven amino acids is a structural adaptation that facilitates motor capability of eutherian prestin. <i>Journal of Cell Science</i> , 2012, 125, 1039-1047.	2.0	18
31	Structural properties of amyloid $\beta$ (1-40) dimer explored by replica exchange molecular dynamics simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2017, 85, 1024-1045.	2.6	18
32	Importance of the central region of lamprey gonadotropin-releasing hormone III in the inhibition of breast cancer cell growth. <i>Peptides</i> , 2005, 26, 419-422.	2.4	17
33	AZD5438-PROTAC: A selective CDK2 degrader that protects against cisplatin- and noise-induced hearing loss. <i>European Journal of Medicinal Chemistry</i> , 2021, 226, 113849.	5.5	17
34	VCD spectroscopic and molecular dynamics analysis of the Trp-cage miniprotein TC5b. <i>Biopolymers</i> , 2007, 88, 427-437.	2.4	16
35	Role of Hsp70 in Cancer Growth and Survival. <i>Protein and Peptide Letters</i> , 2012, 19, 616-624.	0.9	16
36	Conformational Sampling Techniques. <i>Current Pharmaceutical Design</i> , 2014, 20, 3303-3313.	1.9	16

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37	Conformational Space Comparison of GnRH and IGnRH-III using Molecular Dynamics, Cluster Analysis and Monte Carlo Thermodynamic Integration. <i>Journal of Biomolecular Structure and Dynamics</i> , 2001, 18, 733-748.	3.5	15
38	Optical spectroscopic elucidation of $\hat{\imath}^2$ -turns in disulfide bridged cyclic tetrapeptides. <i>Biopolymers</i> , 2007, 85, 1-11.	2.4	15
39	Is IGnRH-III the most potent GnRH analog containing only natural amino acids that specifically inhibits the growth of human breast cancer cells?. <i>Journal of Peptide Science</i> , 2006, 12, 714-720.	1.4	13
40	Role of aromatic residues in stabilizing the secondary and tertiary structure of avian pancreatic polypeptide. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 814-819.	2.0	13
41	The CLN025 Decapeptide Retains a $\hat{\imath}^2$ -Hairpin Conformation in Urea and Guanidinium Chloride. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4971-4981.	2.6	12
42	A modular numbering system of selected oligopeptides for molecular computations: using pre-computed amino acid building blocks. <i>Computational and Theoretical Chemistry</i> , 2003, 666-667, 169-218.	1.5	11
43	Importance of N- and C-terminal regions of gastrin-Gly for preferential binding to high and low affinity gastrin-Gly receptors. <i>Peptides</i> , 2005, 26, 1207-1212.	2.4	11
44	Hexapeptide fragment of carcinoembryonic antigen which acts as an agonist of heterogeneous ribonucleoprotein M. <i>Journal of Peptide Science</i> , 2012, 18, 252-260.	1.4	11
45	Importance of the Aromatic Residue at Position 6 of [Nle <sup>10</sup> ]Neurokinin A(4 $\hat{\sim}$ 10) for Binding to the NK-2 Receptor and Receptor Activation. <i>Journal of Medicinal Chemistry</i> , 1999, 42, 3004-3007.	6.4	10
46	Development of glycol radical parameters for the OPLS $\hat{\text{AA}}$ /L force field. <i>Journal of Computational Chemistry</i> , 2008, 29, 1999-2009.	3.3	10
47	The conformational preference of C $\hat{\pm}$ -centered radicals in proteins. <i>Computational and Theoretical Chemistry</i> , 2006, 759, 117-124.	1.5	9
48	Glutamate Transporter Homolog-based Model Predicts That Anion- $\hat{\text{I}}$ Interaction Is the Mechanism for the Voltage-dependent Response of Prestin. <i>Journal of Biological Chemistry</i> , 2015, 290, 24326-24339.	3.4	9
49	Secondary Structures and Intramolecular Interactions in Fragments of the B-Loops of Naturally Occurring Analogs of Epidermal Growth Factor. <i>Journal of Biomolecular Structure and Dynamics</i> , 1999, 17, 393-407.	3.5	8
50	The structure of bioactive analogs of the N-terminal region of gastrin-17. <i>Peptides</i> , 2009, 30, 2250-2262.	2.4	8
51	Targeting 14-3-3 $\hat{\mu}$ -CDC25A interactions to trigger apoptotic cell death in skin cancer. <i>Oncotarget</i> , 2020, 11, 3267-3278.	1.8	8
52	Solvated structure analysis of a conformationally restricted analogue of phenylalanine in a dipeptide model by the AM1-SM2 method. <i>Computational and Theoretical Chemistry</i> , 1994, 311, 297-304.	1.5	7
53	DEHYDRATION OF THREONINE ESTERS DURING TOSYLATION. <i>Synthetic Communications</i> , 2001, 31, 3633-3640.	2.1	7
54	Molecular Dynamics Simulations of $\hat{\imath}^2$ -turn Forming Tetra- and Hexapeptides. <i>Journal of Biomolecular Structure and Dynamics</i> , 2004, 21, 761-770.	3.5	7

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55	Avian pancreatic polypeptide fragments refold to native aPP conformation when combined in solution: A CD and VCD study. <i>Biopolymers</i> , 2006, 83, 32-38.	2.4	6
56	Gastrin 1-6 promotes growth of colon cancer cells through non-CCK receptors. <i>Peptides</i> , 2007, 28, 632-635.	2.4	6
57	Reply to "Comment on Aromatic Backbone Interactions in Model Helical Peptides". <i>Journal of Computational Chemistry</i> , 2008, 29, 4-7.	3.3	6
58	The effect of electron correlation on the conformational space of melatonin. <i>Journal of Computational Chemistry</i> , 2008, 29, 1466-1471.	3.3	6
59	The role of weakly polar and H-bonding interactions in the stabilization of the conformers of FGG, WGG, and YGG; An aqueous phase computational study. <i>Biopolymers</i> , 2008, 89, 1002-1011.	2.4	6
60	Effects of Selective Substitution of Cysteine Residues on the Conformational Properties of Chlorotoxin Explored by Molecular Dynamics Simulations. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1261.	4.1	6
61	Targeting 14-3-3 $\mu$ activates apoptotic signaling to prevent cutaneous squamous cell carcinoma. <i>Carcinogenesis</i> , 2021, 42, 232-242.	2.8	6
62	Characterization of quinoxaline derivatives for protection against iatrogenically induced hearing loss. <i>JCI Insight</i> , 2021, 6, .	5.0	6
63	Molecular dynamics simulation of EGF and TGF- $\beta$ : conformation and receptor binding properties. <i>Computational and Theoretical Chemistry</i> , 1997, 398-399, 543-550.	1.5	5
64	Molecular dynamics simulations of epidermal growth factor and transforming growth factor- $\beta$ structures in water. , 1998, 33, 396-407.		5
65	Development of a High Throughput Functional Assay for Structure-Activity Studies of Neurokinin A Analogs. <i>Journal of Biomolecular Screening</i> , 1998, 3, 183-188.	2.6	5
66	Conformational Analysis of Ac-NPGQ-NH <sub>2</sub> and Ac-VPaH-NH <sub>2</sub> by Vibrational Circular Dichroism Spectroscopy Combined with Molecular Dynamics and Quantum Chemical Calculations. <i>Protein and Peptide Letters</i> , 2007, 14, 353-359.	0.9	5
67	Evaluation of methods to cap molecular fragments in calculating energies of interaction in avian pancreatic polypeptide. <i>International Journal of Quantum Chemistry</i> , 2008, 108, 1017-1021.	2.0	5
68	Molecular Modeling of Neuropeptides. , 1997, 73, 209-218.		4
69	Peptides bind to eosinophils in the rat stomach. , 1998, 250, 172-181.		4
70	Synthesis and Structure-Activity Relationship of [Nle <sup>10</sup> ]Neurokinin A (4-10) Analogs with Constraint in the Backbone and at Position Six. <i>International Journal of Peptide Research and Therapeutics</i> , 2007, 13, 329-336.	1.9	4
71	Bioactivity of analogs of the N-terminal region of gastrin-17. <i>Peptides</i> , 2009, 30, 2263-2267.	2.4	4
72	DksA-dependent regulation of RpoS contributes to <i>Borrelia burgdorferi</i> tick-borne transmission and mammalian infectivity. <i>PLoS Pathogens</i> , 2021, 17, e1009072.	4.7	4

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73	The benefits of a pre-computed amino acid structure database in quantum chemical geometry optimizations of $\beta$ -turns of peptides. Computational and Theoretical Chemistry, 2003, 666-667, 355-359.	1.5	3
74	The Energetics of Weakly Polar Interactions in Model Tripeptides. Advances in Experimental Medicine and Biology, 2009, 611, 79-80.	1.6	3
75	The Impact of Aromatic Residues on the Tertiary Fold of Avian Pancreatic Polypeptide. Advances in Experimental Medicine and Biology, 2009, 611, 89-90.	1.6	3
76	A specific binding site for a fragment of the B-loop of epidermal growth factor and related peptides. Peptides, 2002, 23, 97-102.	2.4	2
77	Different Signal Responses to Lamprey GnRH-III in Human Cancer Cells. International Journal of Peptide Research and Therapeutics, 2006, 12, 359-364.	1.9	2
78	38 NKA, analogs with conformational constraint. Biochemical Society Transactions, 1998, 26, S30-S30.	3.4	1
79	Difficulties in coupling to conformationally constrained aromatic amino acids. International Journal of Peptide Research and Therapeutics, 2000, 7, 157-163.	0.1	0
80	Antiproliferative Effect of Lamprey Gonadotropin-releasing Hormone III on Cancer Cells from Non-reproductive Organs. , 2006, , 781-782.		0
81	Type II $\beta$ -Turn Formation in Tetrapeptides Evidenced by Vibrational Circular Dichroism Spectroscopy. , 2006, , 708-709.		0
82	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