# SÃ¡ndor Lovas

List of Publications by Year
in descending order

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| 82 | 2,234 | 304743 | 233421 |
|---|---|---|---|
| papers | citations | 22 h-index | 45 g-index |

| 86 | 86 | 86 | 2321 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The Antibacterial Peptide Pyrrhocoricin Inhibits the ATPase Actions of DnaK and Prevents Chaperone-Assisted Protein Folding. Biochemistry, 2001, 40, 3016-3026. | 2.5 | 433 |
| 2 | Interaction between Heat Shock Proteins and Antimicrobial Peptides. Biochemistry, 2000, 39, 14150-14159. | 2.5 | 322 |
| 3 | Identification of crucial residues for the antibacterial activity of the proline-rich peptide, pyrrhocoricin. FEBS Journal, 2002, 269, 4226-4237. | 0.2 | 112 |
| 4 | Significance of aromatic-backbone amide interactions in protein structure. Proteins: Structure, Function and Bioinformatics, 2001, 43, 373-381. | 2.6 | 85 |
| 5 | Single-Molecule Atomic Force Microscopy Force Spectroscopy Study of AÎ²-40 Interactions. Biochemistry, 2011, 50, 5154-5162. | 2.5 | 82 |
| 6 | 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. | 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. International Journal of Quantum Chemistry, 2002, 90, 933-968. | 2.0 | 54 |
| 8 | Aspartate-Bond Isomerization Affects the Major Conformations of Synthetic Peptides. FEBS Journal, 1994, 226, 917-924. | 0.2 | 50 |
| 9 | Prestin at year 14: Progress and prospect. Hearing Research, 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 Rana ridibunda. Journal of Neurochemistry, 1991, 57, 2086-2091. | 3.9 | 49 |
| 11 | Molecular Mechanism of Misfolding and Aggregation of AÎ²(13â€“23). Journal of Physical Chemistry B, 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. Journal of the American Chemical Society, 2001, 123, 11782-11790. | 13.7 | 45 |
| 13 | Aromatic-backbone interactions in model Î±-helical peptides. Journal of Computational Chemistry, 2007, 28, 1208-1214. | 3.3 | 37 |
| 14 | Influence of Tyrosine on the Electronic Circular Dichroism of Helical Peptides. Journal of Physical Chemistry B, 2003, 107, 8682-8688. | 2.6 | 36 |
| 15 | Synthesis of Gonadotropin-Releasing Hormone III Analogs. Structureâ^'Antitumor Activity Relationships. Journal of Medicinal Chemistry, 1997, 40, 3353-3358. | 6.4 | 33 |
| 16 | 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. | 2.5 | 32 |
| 17 | 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. | 3.3 | 30 |
| 18 | Aromaticâ^'Backbone Interactions in Î±-Helices. Journal of Physical Chemistry B, 2004, 108, 9287-9296. | 2.6 | 28 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | The Production and Role of Gastrin-17 and Gastrin-17-Gly in Gastrointestinal Cancers. Protein and Peptide Letters, 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. FEBS Letters, 2004, 556, 199-203. | 2.8 | 24 |
| 21 | Molecular Dynamics Analysis of the Conformations of a Î²-Hairpin Miniprotein. Journal of Physical Chemistry B, 2010, 114, 3028-3037. | 2.6 | 24 |
| 22 | 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. | 2.6 | 23 |
| 23 | Quantum Chemical Quantification of Weakly Polar Interaction Energies in the TC5b Miniprotein. Journal of Physical Chemistry B, 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. Biopolymers, 2003, 72, 21-24. | 2.4 | 21 |
| 25 | Proline-rich Antimicrobial Peptides Optimized for Binding to Escherichia coli Chaperone DnaK. Protein and Peptide Letters, 2016, 23, 1061-1071. | 0.9 | 21 |
| 26 | 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. | 2.4 | 20 |
| 27 | Optimization of adiponectinâ€derived peptides for inhibition of cancer cell growth and signaling. Biopolymers, 2015, 104, 156-166. | 2.4 | 20 |
| 28 | VCD spectroscopic properties of the Î²â€hairpin forming miniprotein CLN025 in various solvents. Biopolymers, 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. Journal of Cell Science, 2012, 125, 1039-1047. | 2.0 | 18 |
| 31 | Structural properties of amyloid Î²(1â€40) dimer explored by replica exchange molecular dynamics simulations. Proteins: Structure, Function and Bioinformatics, 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. Peptides, 2005, 26, 419-422. | 2.4 | 17 |
| 33 | AZD5438-PROTAC: A selective CDK2 degrader that protects against cisplatin- and noise-induced hearing loss. European Journal of Medicinal Chemistry, 2021, 226, 113849. | 5.5 | 17 |
| 34 | VCD spectroscopic and molecular dynamics analysis of the Trp-cage miniprotein TC5b. Biopolymers, 2007, 88, 427-437. | 2.4 | 16 |
| 35 | Role of Hsp70 in Cancer Growth and Survival. Protein and Peptide Letters, 2012, 19, 616-624. | 0.9 | 16 |
| 36 | Conformational Sampling Techniques. Current Pharmaceutical Design, 2014, 20, 3303-3313. | 1.9 | 16 |

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|---|---|---|---|
| 37 | 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. | 3.5 | 15 |
| 38 | Optical spectroscopic elucidation of Î²-turns in disulfide bridged cyclic tetrapeptides. Biopolymers, 2007, 85, 1-11. | 2.4 | 15 |
| 39 | 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. | 1.4 | 13 |
| 40 | Role of aromatic residues in stabilizing the secondary and tertiary structure of avian pancreatic polypeptide. International Journal of Quantum Chemistry, 2008, 108, 814-819. | 2.0 | 13 |
| 41 | The CLN025 Decapeptide Retains a Î²-Hairpin Conformation in Urea and Guanidinium Chloride. Journal of Physical Chemistry B, 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. Computational and Theoretical Chemistry, 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. Peptides, 2005, 26, 1207-1212. | 2.4 | 11 |
| 44 | Hexapeptide fragment of carcinoembryonic antigen which acts as an agonist of heterogeneous ribonucleoprotein M. Journal of Peptide Science, 2012, 18, 252-260. | 1.4 | 11 |
| 45 | Importance of the Aromatic Residue at Position 6 of [Nle10]Neurokinin A(4âˆ’10) for Binding to the NK-2 Receptor and Receptor Activation. Journal of Medicinal Chemistry, 1999, 42, 3004-3007. | 6.4 | 10 |
| 46 | Development of glycyl radical parameters for the OPLSâ€AA/L force field. Journal of Computational Chemistry, 2008, 29, 1999-2009. | 3.3 | 10 |
| 47 | The conformational preference of CÎ±-centered radicals in proteins. Computational and Theoretical Chemistry, 2006, 759, 117-124. | 1.5 | 9 |
| 48 | 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. | 3.4 | 9 |
| 49 | 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. | 3.5 | 8 |
| 50 | The structure of bioactive analogs of the N-terminal region of gastrin-17. Peptides, 2009, 30, 2250-2262. | 2.4 | 8 |
| 51 | Targeting 14-3-3Îµ-CDC25A interactions to trigger apoptotic cell death in skin cancer. Oncotarget, 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. Computational and Theoretical Chemistry, 1994, 311, 297-304. | 1.5 | 7 |
| 53 | DEHYDRATION OF THREONINE ESTERS DURING TOSYLATION. Synthetic Communications, 2001, 31, 3633-3640. | 2.1 | 7 |
| 54 | Molecular Dynamics Simulations of Î²-turn Forming Tetra- and Hexapeptides. Journal of Biomolecular Structure and Dynamics, 2004, 21, 761-770. | 3.5 | 7 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 55 | Avian pancreatic polypeptide fragments refold to native aPP conformation when combined in solution: A CD and VCD study. Biopolymers, 2006, 83, 32-38. | 2.4 | 6 |
| 56 | Gastrin 1â€“6 promotes growth of colon cancer cells through non-CCK receptors. Peptides, 2007, 28, 632-635. | 2.4 | 6 |
| 57 | Reply to â€œComment on Aromaticâ€Backbone Interactions in Model Î±â€Helical Peptidesâ€• Journal of Computational Chemistry, 2008, 29, 4-7. | 3.3 | 6 |
| 58 | The effect of electron correlation on the conformational space of melatonin. Journal of Computational Chemistry, 2008, 29, 1466-1471. | 3.3 | 6 |
| 59 | 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. | 2.4 | 6 |
| 60 | 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. | 4.1 | 6 |
| 61 | Targeting 14-3-3Îµ activates apoptotic signaling to prevent cutaneous squamous cell carcinoma. Carcinogenesis, 2021, 42, 232-242. | 2.8 | 6 |
| 62 | Characterization of quinoxaline derivatives for protection against iatrogenically induced hearing loss. JCI Insight, 2021, 6, . | 5.0 | 6 |
| 63 | 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 |
| 64 | Molecular dynamics simulations of epidermal growth factor and transforming growth factor-Î± structures in water. , 1998, 33, 396-407. | | 5 |
| 65 | 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 |
| 66 | 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. | 0.9 | 5 |
| 67 | 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. | 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 [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. | 1.9 | 4 |
| 71 | Bioactivity of analogs of the N-terminal region of gastrin-17. Peptides, 2009, 30, 2263-2267. | 2.4 | 4 |
| 72 | DksA-dependent regulation of RpoS contributes to Borrelia burgdorferi tick-borne transmission and mammalian infectivity. PLoS Pathogens, 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 Î²-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 Î²-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 |