

# Xavier Daura

## List of Publications by Year in descending order

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127  
papers

9,670  
citations

76196

40  
h-index

45213

90  
g-index

138  
all docs

138  
docs citations

138  
times ranked

10308  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Peptide Folding: When Simulation Meets Experiment. <i>Angewandte Chemie - International Edition</i> , 1999, 38, 236-240.  | 7.2 | 1,611     |
| 2  | AGGRESCAN: a server for the prediction and evaluation of "hot spots" of aggregation in polypeptides. <i>BMC Bioinformatics</i> , 2007, 8, 65.   | 1.2 | 845       |
| 3  | An improved GROMOS96 force field for aliphatic hydrocarbons in the condensed phase. <i>Journal of Computational Chemistry</i> , 2001, 22, 1205-1218.  | 1.5 | 814       |
| 4  | Biomolecular Modeling: Goals, Problems, Perspectives. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4064-4092.   | 7.2 | 503       |
| 5  | Reversible peptide folding in solution by molecular dynamics simulation 1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 1998, 280, 925-932.   | 2.0 | 379       |
| 6  | Parametrization of aliphatic CH <sub>n</sub> united atoms of GROMOS96 force field. , 1998, 19, 535-547.   |     | 370       |
| 7  | Folding-unfolding thermodynamics of a $\alpha$ -heptapeptide from equilibrium simulations. , 1999, 34, 269-280.   |     | 370       |
| 8  | Derivation of an improved simple point charge model for liquid water: SPC/A and SPC/L. <i>Journal of Chemical Physics</i> , 2002, 116, 9811-9828.   | 1.2 | 203       |
| 9  | The $\alpha$ -Peptide Hairpin in Solution: A Conformational Study of a $\alpha$ -Hexapeptide in Methanol by NMR Spectroscopy and MD Simulation. <i>Journal of the American Chemical Society</i> , 2001, 123, 2393-2404. | 6.6 | 193       |
| 10 | Can One Derive the Conformational Preference of a $\alpha$ -Peptide from Its CD Spectrum?. <i>Journal of the American Chemical Society</i> , 2002, 124, 12972-12978.  | 6.6 | 162       |
| 11 | Assessing equilibration and convergence in biomolecular simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2002, 48, 487-496.   | 1.5 | 128       |
| 12 | Essential dynamics of reversible peptide folding: memory-free conformational dynamics governed by internal hydrogen bonds. <i>Journal of Molecular Biology</i> , 2001, 309, 299-313.                                    | 2.0 | 126       |
| 13 | The Key to Solving the Protein-Folding Problem Lies in an Accurate Description of the Denatured State. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 351-355.  | 7.2 | 124       |
| 14 | Studying the Stability of a Helical $\alpha$ -Heptapeptide by Molecular Dynamics Simulations. <i>Chemistry - A European Journal</i> , 1997, 3, 1410-1417.   | 1.7 | 120       |
| 15 | PARS: a web server for the prediction of Protein Allosteric and Regulatory Sites. <i>Bioinformatics</i> , 2014, 30, 1314-1315.  | 1.8 | 117       |
| 16 | Comparing geometric and kinetic cluster algorithms for molecular simulation data. <i>Journal of Chemical Physics</i> , 2010, 132, 074110.   | 1.2 | 110       |
| 17 | The effect of motional averaging on the calculation of NMR-derived structural properties. , 1999, 36, 542-555.  |     | 103       |
| 18 | Validation of Molecular Simulation: An Overview of Issues. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 884-902.  | 7.2 | 101       |

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|----|---|------|-----------|
| 19 | Structure and Conformation of $\beta^2$ -Oligopeptide Derivatives with Simple Proteinogenic Side Chains: Circular Dichroism and Molecular Dynamics Investigations. <i>Helvetica Chimica Acta</i> , 2000, 83, 34-57.   | 1.0  | 100       |
| 20 | Computation of Free Energy. <i>Helvetica Chimica Acta</i> , 2002, 85, 3113-3129.  | 1.0  | 99        |
| 21 | Configurational entropy elucidates the role of salt-bridge networks in protein thermostability. <i>Protein Science</i> , 2007, 16, 1349-1359.   | 3.1  | 99        |
| 22 | Entropy calculations on a reversibly folding peptide: Changes in solute free energy cannot explain folding behavior. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 43, 45-56.   | 1.5  | 97        |
| 23 | Calculation of NMR-relaxation parameters for flexible molecules from molecular dynamics simulations. <i>Journal of Biomolecular NMR</i> , 2001, 20, 297-310.  | 1.6  | 89        |
| 24 | In Vivo Architectonic Stability of Fully de Novo Designed Protein-Only Nanoparticles. <i>ACS Nano</i> , 2014, 8, 4166-4176.   | 7.3  | 89        |
| 25 | Validation of the GROMOS force-field parameter set 45A3 against nuclear magnetic resonance data of hen egg lysozyme. <i>Journal of Biomolecular NMR</i> , 2004, 30, 407-422.  | 1.6  | 87        |
| 26 | Understanding the Molecular Determinants Driving the Immunological Specificity of the Protective Pilus 2a Backbone Protein of Group B Streptococcus. <i>PLoS Computational Biology</i> , 2013, 9, e1003115.   | 1.5  | 82        |
| 27 | The phylogenetic landscape and nosocomial spread of the multidrug-resistant opportunist <i>Stenotrophomonas maltophilia</i> . <i>Nature Communications</i> , 2020, 11, 2044.  | 5.8  | 76        |
| 28 | PrionW: a server to identify proteins containing glutamine/asparagine rich prion-like domains and their amyloid cores. <i>Nucleic Acids Research</i> , 2015, 43, W331-W337.   | 6.5  | 74        |
| 29 | Molecular Dynamics Simulations of a Reversibly Folding $\beta^2$ -Heptapeptide in Methanol: Influence of the Treatment of Long-Range Electrostatic Interactions. <i>Journal of Physical Chemistry B</i> , 2009, 113, 3112-3128.                                 | 1.2  | 72        |
| 30 | Exploiting protein flexibility to predict the location of allosteric sites. <i>BMC Bioinformatics</i> , 2012, 13, 273.  | 1.2  | 72        |
| 31 | Bottom-Up Instructive Quality Control in the Biofabrication of Smart Protein Materials. <i>Advanced Materials</i> , 2015, 27, 7816-7822.  | 11.1 | 61        |
| 32 | Peptides of Aminoxy Acids: A Molecular Dynamics Simulation Study of Conformational Equilibria under Various Conditions. <i>Journal of the American Chemical Society</i> , 2000, 122, 7461-7466.   | 6.6  | 60        |
| 33 | Protein nanodisk assembling and intracellular trafficking powered by an arginine-rich (R9) peptide. <i>Nanomedicine</i> , 2010, 5, 259-268.   | 1.7  | 59        |
| 34 | Peptide Folding: When Simulation Meets Experiment. , 1999, 38, 236.   |      | 57        |
| 35 | Two Different $\beta$ Clusters Distributed among a Population of <i>Stenotrophomonas maltophilia</i> Clinical Strains Display Differential Diffusible Signal Factor Production and Virulence Regulation. <i>Journal of Bacteriology</i> , 2014, 196, 2431-2442. | 1.0  | 55        |
| 36 | HLA and microtubule-associated protein tau H1 haplotype associations in anti-IgLON5 disease. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2019, 6, .   | 3.1  | 55        |

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|----|---|-----|-----------|
| 37 | Circular dichroism spectra of $\hat{I}^2$ -peptides: sensitivity to molecular structure and effects of motional averaging. <i>European Biophysics Journal</i> , 2003, 32, 661-670.  | 1.2 | 53        |
| 38 | Effect of Oxidative Damage on the Stability and Dimerization of Superoxide Dismutase 1. <i>Biophysical Journal</i> , 2016, 110, 1499-1509.  | 0.2 | 53        |
| 39 | Free Energies of Transfer of Trp Analogs from Chloroform to Water: A Comparison of Theory and Experiment and the Importance of Adequate Treatment of Electrostatic and Internal Interactions. <i>Journal of the American Chemical Society</i> , 1996, 118, 6285-6294. | 6.6 | 52        |
| 40 | The Role of Hydration in Protein Stability: Comparison of the Cold and Heat Unfolded States of Yfh1. <i>Journal of Molecular Biology</i> , 2012, 417, 413-424.  | 2.0 | 52        |
| 41 | Exploiting the <i>Burkholderia pseudomallei</i> Acute Phase Antigen BPSL2765 for Structure-Based Epitope Discovery/Design in Structural Vaccinology. <i>Chemistry and Biology</i> , 2013, 20, 1147-1156.  | 6.2 | 50        |
| 42 | A Structure-Based Strategy for Epitope Discovery in <i>Burkholderia pseudomallei</i> OppA Antigen. <i>Structure</i> , 2013, 21, 167-175.  | 1.6 | 49        |
| 43 | Thyroglobulin Peptides Associate In Vivo to HLA-DR in Autoimmune Thyroid Glands. <i>Journal of Immunology</i> , 2008, 181, 795-807.   | 0.4 | 48        |
| 44 | Exploiting Antigenic Diversity for Vaccine Design. <i>Journal of Biological Chemistry</i> , 2010, 285, 30126-30138.   | 1.6 | 44        |
| 45 | Folding study of an Aib-rich peptide in DMSO by molecular dynamics simulations. <i>Chemical Biology and Drug Design</i> , 2001, 57, 107-118.  | 1.2 | 42        |
| 46 | From crystal structure to <i>in silico</i> epitope discovery in the <i>Burkholderia pseudomallei</i> flagellar hook-associated protein FlgK. <i>FEBS Journal</i> , 2015, 282, 1319-1333.  | 2.2 | 42        |
| 47 | Unfolded state of peptides. <i>Advances in Protein Chemistry</i> , 2002, 62, 341-360.   | 4.4 | 40        |
| 48 | Sequence- and Structure-Based Immunoreactive Epitope Discovery for <i>Burkholderia pseudomallei</i> Flagellin. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003917.   | 1.3 | 40        |
| 49 | Quorum Sensing Signaling and Quenching in the Multidrug-Resistant Pathogen <i>Stenotrophomonas maltophilia</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 122.  | 1.8 | 39        |
| 50 | Validation of molecular simulation by comparison with experiment: Rotational reorientation of tryptophan in water. <i>Journal of Chemical Physics</i> , 1999, 110, 3049-3055.   | 1.2 | 38        |
| 51 | <i>Stenotrophomonas maltophilia</i> responds to exogenous AHL signals through the LuxR solo SmoR (Smlt1839). <i>Frontiers in Cellular and Infection Microbiology</i> , 2015, 5, 41.   | 1.8 | 38        |
| 52 | On the sensitivity of MD trajectories to changes in water-protein interaction parameters: The potato carboxypeptidase inhibitor in water as a test case for the GROMOS force field. , 1996, 25, 89-103.   |     | 37        |
| 53 | Decoding the genetic and functional diversity of the DSF quorum-sensing system in <i>Stenotrophomonas maltophilia</i> . <i>Frontiers in Microbiology</i> , 2015, 6, 761.  | 1.5 | 37        |
| 54 | Peptide folding simulations: no solvent required?. <i>Computer Physics Communications</i> , 1999, 123, 97-102.  | 3.0 | 35        |

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|----|---|-----|-----------|
| 55 | The rheumatoid arthritis-associated allele HLA-DR10 ( <i>&lt;i&gt;DRB1*1001&lt;/i&gt;</i> ) shares part of its repertoire with HLA-DR1 ( <i>&lt;i&gt;DRB1*0101&lt;/i&gt;</i> ) and HLA-DR4 ( <i>&lt;i&gt;DRB*0401&lt;/i&gt;</i> ). <i>Arthritis and Rheumatism</i> , 2008, 58, 1630-1639. | 6.7 | 34        |
| 56 | Assessing the structural conservation of protein pockets to study functional and allosteric sites: implications for drug discovery. <i>BMC Structural Biology</i> , 2010, 10, 9.  | 2.3 | 34        |
| 57 | Abundance of the Quorum-Sensing Factor Ax21 in Four Strains of <i>Stenotrophomonas maltophilia</i> Correlates with Mortality Rate in a New Zebrafish Model of Infection. <i>PLoS ONE</i> , 2013, 8, e67207.   | 1.1 | 33        |
| 58 | Heterogeneous Colistin-Resistance Phenotypes Coexisting in <i>Stenotrophomonas maltophilia</i> Isolates Influence Colistin Susceptibility Testing. <i>Frontiers in Microbiology</i> , 2018, 9, 2871.  | 1.5 | 29        |
| 59 | A strategy for analysis of (molecular) equilibrium simulations: Configuration space density estimation, clustering, and visualization. <i>Journal of Chemical Physics</i> , 2001, 114, 2079-2089.   | 1.2 | 28        |
| 60 | Procarboxypeptidase A from the insect pest <i>Helicoverpa armigera</i> and its derived enzyme. <i>FEBS Journal</i> , 2003, 270, 3026-3035.  | 0.2 | 27        |
| 61 | Sheltering DNA in self-organizing, protein-only nano-shells as artificial viruses for gene delivery. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 535-541.  | 1.7 | 27        |
| 62 | $\hat{\alpha}$ -Hairpin folding and stability: molecular dynamics simulations of designed peptides in aqueous solution. <i>Journal of Peptide Science</i> , 2004, 10, 546-565.  | 0.8 | 26        |
| 63 | Enhanced Conformational Sampling in Molecular Dynamics Simulations of Solvated Peptides: Fragment-Based Local Elevation Umbrella Sampling. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2598-2621.  | 2.3 | 25        |
| 64 | Molecular dynamics simulation study of the effect of glycerol dialkyl glycerol tetraether hydroxylation on membrane thermostability. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 966-974.   | 1.4 | 25        |
| 65 | Human Leukocyte Antigen (HLA)-DRB1*15:01 and HLA-DRB5*01:01 Present Complementary Peptide Repertoires. <i>Frontiers in Immunology</i> , 2017, 8, 984.   | 2.2 | 25        |
| 66 | A novel approach for designing simple point charge models for liquid water with three interaction sites. <i>Journal of Computational Chemistry</i> , 2003, 24, 1087-1096.   | 1.5 | 24        |
| 67 | Deriving Structural Information from Experimentally Measured Data on Biomolecules. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15990-16010.  | 7.2 | 24        |
| 68 | -Peptides with Different Secondary-Structure Preferences: How Different Are Their Conformational Spaces?. <i>Helvetica Chimica Acta</i> , 2002, 85, 3872-3882.  | 1.0 | 23        |
| 69 | On the Influence of Charged Side Chains on the Folding-Unfolding Equilibrium of $\hat{\alpha}$ -Peptides: A Molecular Dynamics Simulation Study. <i>Chemistry - A European Journal</i> , 2005, 11, 7276-7293.   | 1.7 | 23        |
| 70 | EsiB, a Novel Pathogenic <i>Escherichia coli</i> Secretory Immunoglobulin A-Binding Protein Impairing Neutrophil Activation. <i>MBio</i> , 2013, 4, .   | 1.8 | 22        |
| 71 | Genetic Variants of the DSF Quorum Sensing System in <i>Stenotrophomonas maltophilia</i> Influence Virulence and Resistance Phenotypes Among Genotypically Diverse Clinical Isolates. <i>Frontiers in Microbiology</i> , 2020, 11, 1160.  | 1.5 | 22        |
| 72 | Stability of SIV gp32 Fusion-Peptide Single-Layer Protofibrils as Monitored by Molecular Dynamics Simulations. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1065-1067.  | 7.2 | 21        |

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|----|--|-----|-----------|
| 73 | Molecular Dynamics Simulation of Peptide Folding. <i>Theoretical Chemistry Accounts</i> , 2006, 116, 297-306.  | 0.5 | 20        |
| 74 | The Key to Solving the Protein-Folding Problem Lies in an Accurate Description of the Denatured State<br>Financial support from the Schweizerischer Nationalfonds (Project no. 21-50929.97) is gratefully acknowledged.. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 351-355. | 7.2 | 20        |
| 75 | Molecular dynamics simulations of peptides containing an unnatural amino acid: Dimerization, folding, and protein binding. <i>Proteins: Structure, Function and Bioinformatics</i> , 2003, 54, 116-127.  | 1.5 | 17        |
| 76 | Molecular-Dynamics Simulations of C- and N-Terminal Peptide Derivatives of GCN4-p1 in Aqueous Solution. <i>Chemistry and Biodiversity</i> , 2005, 2, 1086-1104.  | 1.0 | 17        |
| 77 | Crystal structure of c5321: a protective antigen present in uropathogenic <i>Escherichia coli</i> strains displaying an SLR fold. <i>BMC Structural Biology</i> , 2013, 13, 19.  | 2.3 | 17        |
| 78 | Proteomic analysis of outer membrane proteins and vesicles of a clinical isolate and a collection strain of <i>Stenotrophomonas maltophilia</i> . <i>Journal of Proteomics</i> , 2016, 142, 122-129.   | 1.2 | 17        |
| 79 | Estimating the Temperature Dependence of Peptide Folding Entropies and Free Enthalpies from Total Energies in Molecular Dynamics Simulations. <i>Chemistry - A European Journal</i> , 2008, 14, 5039-5046.   | 1.7 | 16        |
| 80 | Structural and Biochemical Characterization of NarE, an Iron-containing ADP-ribosyltransferase from <i>Neisseria meningitidis</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 14842-14851.   | 1.6 | 16        |
| 81 | RGD-based cell ligands for cell-targeted drug delivery act as potent trophic factors. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012, 8, 1263-1266.   | 1.7 | 16        |
| 82 | Methods to Develop an in silico Clinical Trial: Computational Head-to-Head Comparison of Lisdexamfetamine and Methylphenidate. <i>Frontiers in Psychiatry</i> , 2021, 12, 741170.  | 1.3 | 16        |
| 83 | Conformational and functional variants of CD44-targeted protein nanoparticles bio-produced in bacteria. <i>Biofabrication</i> , 2016, 8, 025001.   | 3.7 | 15        |
| 84 | Sulfonamide-based diffusible signal factor analogs interfere with quorum sensing in <i>Stenotrophomonas maltophilia</i> and <i>Burkholderia cepacia</i> . <i>Future Medicinal Chemistry</i> , 2019, 11, 1565-1582.   | 1.1 | 15        |
| 85 | The <i>Pseudomonas aeruginosa</i> substrate-binding protein Ttg2D functions as a general glycerophospholipid transporter across the periplasm. <i>Communications Biology</i> , 2021, 4, 448.   | 2.0 | 15        |
| 86 | Nanoparticulate architecture of protein-based artificial viruses is supported by protein-DNA interactions. <i>Nanomedicine</i> , 2011, 6, 1047-1061.   | 1.7 | 14        |
| 87 | Advances in the Computational Identification of Allosteric Sites and Pathways in Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1163, 141-169.   | 0.8 | 14        |
| 88 | Reply. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 4616-4618.   | 7.2 | 13        |
| 89 | Interaction of camel Lactoferrin derived peptides with DNA: a molecular dynamics study. <i>BMC Genomics</i> , 2020, 21, 60.  | 1.2 | 13        |
| 90 | An improved GROMOS96 force field for aliphatic hydrocarbons in the condensed phase. , 2001, 22, 1205.  |     | 13        |

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|-----|---|-----|-----------|
| 91  | Structure-Based Design of a B Cell Antigen from <i>B. pseudomallei</i> . ACS Chemical Biology, 2015, 10, 803-812.   | 1.6 | 12        |
| 92  | The fusogenic peptide HA2 impairs selectivity of CXCR4-targeted protein nanoparticles. Chemical Communications, 2017, 53, 4565-4568.  | 2.2 | 12        |
| 93  | On the Effect of the Various Assumptions and Approximations used in Molecular Simulations on the Properties of Bio-Molecular Systems: Overview and Perspective on Issues. ChemPhysChem, 2021, 22, 264-282.                              | 1.0 | 12        |
| 94  | Factor Xa: simulation studies with an eye to inhibitor design. Journal of Computer-Aided Molecular Design, 2000, 14, 507-529.   | 1.3 | 11        |
| 95  | BPSL1626: Reverse and Structural Vaccinology Reveal a Novel Candidate for Vaccine Design Against Burkholderia pseudomallei. Antibodies, 2018, 7, 26.  | 1.2 | 11        |
| 96  | Aggregation-prone peptides modulate activity of bovine interferon gamma released from naturally occurring protein nanoparticles. New Biotechnology, 2020, 57, 11-19.  | 2.4 | 11        |
| 97  | A generalized Langevin dynamics approach to model solvent dynamics effects on proteins via a solvent-accessible surface. The carboxypeptidase A inhibitor protein as a model. Theoretical Chemistry Accounts, 2000, 105, 101-109.       | 0.5 | 10        |
| 98  | Oligonucleotide Analogues with a Nucleobase-Including Backbone, Part 7, Molecular Dynamics Simulation of a DNA Duplex Containing a 2'-Deoxyadenosine 8-(Hydroxymethyl)-Derived Nucleotide. Helvetica Chimica Acta, 2001, 84, 2132-2145. | 1.0 | 10        |
| 99  | Free energy calculations offer insights into the influence of receptor flexibility on ligand-receptor binding affinities. Journal of Computer-Aided Molecular Design, 2011, 25, 709-716.  | 1.3 | 10        |
| 100 | antibacTR: dynamic antibacterial-drug-target ranking integrating comparative genomics, structural analysis and experimental annotation. BMC Genomics, 2014, 15, 36.   | 1.2 | 10        |
| 101 | A Comparative Analysis of the Peptide Repertoires of HLA-DR Molecules Differentially Associated With Rheumatoid Arthritis. Arthritis and Rheumatology, 2016, 68, 2412-2421.   | 2.9 | 10        |
| 102 | A Molecular Dynamics Simulation of the Binding Modes of d-Glutamate and d-Glutamine to Glutamate Racemase. Journal of Chemical Theory and Computation, 2005, 1, 737-749.  | 2.3 | 9         |
| 103 | On the Relative Merits of Equilibrium and Non-Equilibrium Simulations for the Estimation of Free-Energy Differences. ChemPhysChem, 2010, 11, 3734-3743.   | 1.0 | 9         |
| 104 | Disulfide Bond Formation and Activation of Escherichia coli Î²-Galactosidase under Oxidizing Conditions. Applied and Environmental Microbiology, 2012, 78, 2376-2385.   | 1.4 | 9         |
| 105 | Structure and atomic fluctuation patterns of potato carboxypeptidase a inhibitor protein. European Biophysics Journal, 1995, 24, 1-11.  | 1.2 | 7         |
| 106 | Bestimmung von Strukturinformation aus experimentellen Messdaten für Biomoleküle. Angewandte Chemie, 2016, 128, 16222-16244.  | 1.6 | 7         |
| 107 | A Bowman-Birk protease inhibitor purified, cloned, sequenced and characterized from the seeds of Maclura pomifera (Raf.) Schneid. Planta, 2017, 245, 343-353.   | 1.6 | 7         |
| 108 | CuBlock: a cross-platform normalization method for gene-expression microarrays. Bioinformatics, 2021, 37, 2365-2373.  | 1.8 | 7         |

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|-----|---|-----|-----------|
| 109 | Prediction of Antigenic B and T Cell Epitopes via Energy Decomposition Analysis: Description of the Web-Based Prediction Tool BEPPE. <i>Methods in Molecular Biology</i> , 2015, 1348, 13-22.                             | 0.4 | 6         |
| 110 | Antigen Discovery in Bacterial Panproteomes. <i>Methods in Molecular Biology</i> , 2021, 2183, 43-62.   | 0.4 | 6         |
| 111 | Why is a protective antigen protective?. <i>Hum Vaccin</i> , 2009, 5, 872-875.  | 2.4 | 5         |
| 112 | Calcium binding to the purple membrane: A molecular dynamics study. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 74, 669-681.  | 1.5 | 5         |
| 113 | Draft Genome Sequence of <i>Stenotrophomonas maltophilia</i> Strain UV74 Reveals Extensive Variability within Its Genomic Group. <i>Genome Announcements</i> , 2015, 3, .   | 0.8 | 5         |
| 114 | CNN-PepPred: an open-source tool to create convolutional NN models for the discovery of patterns in peptide setsâ€”application to peptideâ€”MHC class II binding prediction. <i>Bioinformatics</i> , 2021, 37, 4567-4568. | 1.8 | 5         |
| 115 | Antibacterial Activity of T22, a Specific Peptidic Ligand of the Tumoral Marker CXCR4. <i>Pharmaceutics</i> , 2021, 13, 1922.   | 2.0 | 5         |
| 116 | Stability of SIV gp32 Fusionâ€”Peptide Singleâ€”Layer Protofibrils as Monitored by Molecularâ€”Dynamics Simulations. <i>Angewandte Chemie</i> , 2005, 117, 1089-1091.   | 1.6 | 4         |
| 117 | Draft Genome Sequence of <i>Stenotrophomonas maltophilia</i> Strain M30, Isolated from a Chronic Pressure Ulcer in an Elderly Patient. <i>Genome Announcements</i> , 2014, 2, .   | 0.8 | 4         |
| 118 | Redefining the PF06864 Pfam Family Based on <i>Burkholderia pseudomallei</i> PiO2Bp S-SAD Crystal Structure. <i>PLoS ONE</i> , 2014, 9, e94981.   | 1.1 | 4         |
| 119 | On the Entropic and Hydrophobic Properties Involved in the Inhibitory Mechanism of Carboxypeptidase A by its Natural Inhibitor from Potato. <i>Journal of Molecular Modeling</i> , 1995, 1, 54-67.                        | 0.8 | 3         |
| 120 | Modelling of the Complex between a 15-Residue Peptide from mSos2 and the N-Terminal SH3 Domain of Grb2 by Molecular-Dynamics Simulation. <i>Chemistry and Biodiversity</i> , 2004, 1, 505-519.                            | 1.0 | 3         |
| 121 | Engineering the <i>E. coli</i> Î²-galactosidase for the screening of antiviral protease inhibitors. <i>Biochemical and Biophysical Research Communications</i> , 2005, 329, 453-456.                                      | 1.0 | 3         |
| 122 | Validierung von molekularen Simulationen: eine Ãœbersicht verschiedener Aspekte. <i>Angewandte Chemie</i> , 2018, 130, 894-915.   | 1.6 | 3         |
| 123 | The Key to Solving the Protein-Folding Problem Lies in an Accurate Description of the Denatured State. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 351-355.  | 7.2 | 3         |
| 124 | Cyclodextrin Hostâ€”Guest Binding: A Computational Study of the Different Driving Forces. <i>Helvetica Chimica Acta</i> , 2010, 93, 2318-2325.  | 1.0 | 2         |
| 125 | Polypeptide folding on a conformationalâ€”space network: Dependence of network topology on the structural discretization procedure. <i>Journal of Computational Chemistry</i> , 2010, 31, 1889-1903.                      | 1.5 | 2         |
| 126 | Entropy calculations on a reversibly folding peptide: Changes in solute free energy cannot explain folding behavior. , 2001, 43, 45.  |     | 1         |



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|-----|--|-----|-----------|
| 127 | Aspects of Modeling Biomolecular Structure on the Basis of Spectroscopic or Diffraction Data. Biological Magnetic Resonance, 2002, , 3-35. | 0.4 | 0         |