

Federico Gago

List of Publications by Year in descending order

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231
papers

6,344
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61857

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243
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243
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times ranked

7186
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Prediction of Drug Binding Affinities by Comparative Binding Energy Analysis. <i>Journal of Medicinal Chemistry</i> , 1995, 38, 2681-2691. | 2.9 | 267 |
| 2 | Molecular Determinants of Topoisomerase I Poisoning by Lamellarins: A Comparison with Camptothecin and Structure-Activity Relationships. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 3796-3807. | 2.9 | 207 |
| 3 | Cross-Talk between Nucleotide Excision and Homologous Recombination DNA Repair Pathways in the Mechanism of Action of Antitumor Trabectedin. <i>Cancer Research</i> , 2006, 66, 8155-8162. | 0.4 | 168 |
| 4 | The dual role of thymidine phosphorylase in cancer development and chemotherapy. <i>Medicinal Research Reviews</i> , 2009, 29, 903-953. | 5.0 | 166 |
| 5 | Comparative Binding Energy Analysis of HIV-1 Protease Inhibitors: Incorporation of Solvent Effects and Validation as a Powerful Tool in Receptor-Based Drug Design. <i>Journal of Medicinal Chemistry</i> , 1998, 41, 836-852. | 2.9 | 137 |
| 6 | PMO1183, a new DNA minor groove covalent binder with potent <i>in vitro</i> and <i>in vivo</i> antitumour activity. <i>British Journal of Pharmacology</i> , 2010, 161, 1099-1110. | 2.7 | 120 |
| 7 | Guanidinium Receptors as Enantioselective Amino Acid Membrane Carriers. <i>Journal of the American Chemical Society</i> , 2003, 125, 8270-8284. | 6.6 | 113 |
| 8 | ET-18-OCH ₃ (Edelfosine): A Selective Antitumour Lipid Targeting Apoptosis Through Intracellular Activation of Fas / CD95 Death Receptor. <i>Current Medicinal Chemistry</i> , 2004, 11, 3163-3184. | 1.2 | 113 |
| 9 | Stacking Interactions and Intercalative DNA Binding. <i>Methods</i> , 1998, 14, 277-292. | 1.9 | 100 |
| 10 | Mutational Pathways, Resistance Profile, and Side Effects of Cyanovirin Relative to Human Immunodeficiency Virus Type 1 Strains with N-Glycan Deletions in Their gp120 Envelopes. <i>Journal of Virology</i> , 2006, 80, 8411-8421. | 1.5 | 93 |
| 11 | Regulation of cyclooxygenase activity by metamizol. <i>European Journal of Pharmacology</i> , 1999, 378, 339-347. | 1.7 | 83 |
| 12 | Synthesis and DNA Binding Properties of \hat{I}^3 -Carbolinium Derivatives and Benzologues. <i>Journal of Organic Chemistry</i> , 1996, 61, 5587-5599. | 1.7 | 82 |
| 13 | Ab Initio Study of Stacking Interactions in A- and B-DNA. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3846-3853. | 1.2 | 82 |
| 14 | Translation Elongation Factor eEF1A2 is a Novel Anticancer Target for the Marine Natural Product Plitidepsin. <i>Scientific Reports</i> , 2016, 6, 35100. | 1.6 | 71 |
| 15 | Molecular pharmacology and antitumor activity of Zalypsis [®] in several human cancer cell lines. <i>Biochemical Pharmacology</i> , 2009, 78, 162-170. | 2.0 | 69 |
| 16 | Quantitative Analysis of Substrate Specificity of Haloalkane Dehalogenase LinB from <i>Sphingomonas paucimobilis</i> UT26. <i>Biochemistry</i> , 2005, 44, 3390-3401. | 1.2 | 68 |
| 17 | Optimization of Taxane Binding to Microtubules: Binding Affinity Dissection and Incremental Construction of a High-Affinity Analog of Paclitaxel. <i>Chemistry and Biology</i> , 2008, 15, 573-585. | 6.2 | 68 |
| 18 | Three-Dimensional Structure of $\hat{I}^{\%}$ -Conotoxin GVIA Determined by 1H-NMR. <i>Biochemical and Biophysical Research Communications</i> , 1993, 192, 1238-1244. | 1.0 | 67 |

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|----|---|-----|-----------|
| 19 | Identification of a Putative Binding Site for [2â€³,5â€³-Bis-O-(tert-butyldimethylsilyl)-Î²-d-ribofuranosyl]-3â€³-spiro-5â€³-â€³-(4â€³-â€³-amino-1â€³-â€³,2â€³-â€³-oxadiazole) Derivatives at the p51â€³-p66 Interface of HIV-1 Reverse Transcriptase. <i>Journal of Medicinal Chemistry</i> , 2001, 44, 1853-1865. | 2.9 | 67 |
| 20 | MM-ISMSA: An Ultrafast and Accurate Scoring Function for Proteinâ€³Protein Docking. <i>Journal of Chemical Theory and Computation</i> , 2012, 8, 3395-3408. | 2.3 | 65 |
| 21 | Involvement of Novel Human Immunodeficiency Virus Type 1 Reverse Transcriptase Mutations in the Regulation of Resistance to Nucleoside Inhibitors. <i>Journal of Virology</i> , 2006, 80, 7186-7198. | 1.5 | 64 |
| 22 | A Designed Non-Peptidic Receptor that Mimics the Phosphocholine Binding Site of the McPC603 Antibody. <i>Angewandte Chemie International Edition in English</i> , 1996, 35, 1712-1715. | 4.4 | 62 |
| 23 | Reliability of Comparative Molecular Field Analysis Models:â€³ Effects of Data Scaling and Variable Selection Using a Set of Human Synovial Fluid Phospholipase A2 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 1997, 40, 1136-1148. | 2.9 | 62 |
| 24 | Azino-Fused Benzimidazolium Salts as DNA Intercalating Agents. 2.. <i>Journal of Organic Chemistry</i> , 1997, 62, 5476-5483. | 1.7 | 61 |
| 25 | Rational modification of human synovial fluid phospholipase A2 inhibitors. <i>Journal of Medicinal Chemistry</i> , 1994, 37, 337-341. | 2.9 | 60 |
| 26 | 3D-QSAR methods on the basis of ligand-receptor complexes. Application of COMBINE and GRID/GOLPE methodologies to a series of CYP1A2 ligands. <i>Journal of Computer-Aided Molecular Design</i> , 2000, 14, 341-353. | 1.3 | 59 |
| 27 | Dimerization inhibitors of HIV-1 reverse transcriptase, protease and integrase: A single mode of inhibition for the three HIV enzymes?. <i>Antiviral Research</i> , 2006, 71, 260-267. | 1.9 | 58 |
| 28 | Antitumor Activity, X-ray Crystal Structure, and DNA Binding Properties of Thiocoraline A, a Natural Bisintercalating Thiodepsipeptide. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 3322-3333. | 2.9 | 58 |
| 29 | Synthesis, Activity, and Molecular Modeling Studies of Novel Human Aldose Reductase Inhibitors Based on a Marine Natural Product. <i>Journal of Medicinal Chemistry</i> , 2003, 46, 5208-5221. | 2.9 | 56 |
| 30 | Temperature-induced melting of double-stranded DNA in the absence and presence of covalently bonded antitumour drugs: insight from molecular dynamics simulations. <i>Nucleic Acids Research</i> , 2011, 39, 8248-8257. | 6.5 | 55 |
| 31 | Development of a New Family of Conformationally Restricted Peptides as Potent Nucleators of Î²-Turns. Design, Synthesis, Structure, and Biological Evaluation of a Î²-Lactam Peptide Analogue of Melanostatin. <i>Journal of the American Chemical Society</i> , 2003, 125, 16243-16260. | 6.6 | 54 |
| 32 | Identification of the minimal conserved structure of HIV-1 protease in the presence and absence of drug pressure. <i>Aids</i> , 2004, 18, 11-19. | 1.0 | 52 |
| 33 | HIV Protease Inhibition: Limited Recent Progress and Advances in Understanding Current Pitfalls. <i>Current Topics in Medicinal Chemistry</i> , 2004, 4, 991-1007. | 1.0 | 51 |
| 34 | The Molecular Basis of Resilience to the Effect of the Lys103Asn Mutation in Non-Nucleoside HIV-1 Reverse Transcriptase Inhibitors Studied by Targeted Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2005, 127, 7570-7578. | 6.6 | 51 |
| 35 | Recognition and Activation of the Plant AKT1 Potassium Channel by the Kinase CIPK23. <i>Plant Physiology</i> , 2020, 182, 2143-2153. | 2.3 | 51 |
| 36 | Benzo[f]azino[2,1-a]phthalazinium Cations:â€³ Novel DNA Intercalating Chromophores with Antiproliferative Activity. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 1136-1148. | 2.9 | 50 |

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|----|---|-----|-----------|
| 37 | High Sequence Conservation of Human Immunodeficiency Virus Type 1 Reverse Transcriptase under Drug Pressure despite the Continuous Appearance of Mutations. <i>Journal of Virology</i> , 2005, 79, 10718-10729. | 1.5 | 50 |
| 38 | TSAO Compounds: The Comprehensive Story of a Unique Family of HIV- 1 Specific Inhibitors of Reverse Transcriptase. <i>Current Topics in Medicinal Chemistry</i> , 2004, 4, 945-963. | 1.0 | 49 |
| 39 | <i>Leishmania infantum</i> expresses a mitochondrial nuclease homologous to EndoG that migrates to the nucleus in response to an apoptotic stimulus. <i>Molecular and Biochemical Parasitology</i> , 2009, 163, 28-38. | 0.5 | 49 |
| 40 | Identification of Aldo-Keto Reductase AKR1B10 as a Selective Target for Modification and Inhibition by Prostaglandin A1: Implications for Antitumoral Activity. <i>Cancer Research</i> , 2011, 71, 4161-4171. | 0.4 | 49 |
| 41 | Structure-affinity relationships for the binding of actinomycin D to DNA. <i>Journal of Computer-Aided Molecular Design</i> , 1997, 11, 114-128. | 1.3 | 47 |
| 42 | Correlation of octanol/water partition coefficients with hydrophobicity measurements obtained by micellar chromatography. <i>Analytical Chemistry</i> , 1987, 59, 921-923. | 3.2 | 46 |
| 43 | XPF-Dependent DNA Breaks and RNA Polymerase II Arrest Induced by Antitumor DNA Interstrand Crosslinking-Mimetic Alkaloids. <i>Chemistry and Biology</i> , 2011, 18, 988-999. | 6.2 | 46 |
| 44 | The binding of benzenesulfonamides to carbonic anhydrase enzyme. A molecular mechanics study and quantitative structure-activity relationships. <i>Journal of Medicinal Chemistry</i> , 1989, 32, 951-956. | 2.9 | 45 |
| 45 | Molecular model of the interaction of bee venom phospholipase A2 with manoalide. <i>Journal of Medicinal Chemistry</i> , 1993, 36, 1866-1879. | 2.9 | 44 |
| 46 | Relevance of the Fanconi anemia pathway in the response of human cells to trabectedin. <i>Molecular Cancer Therapeutics</i> , 2008, 7, 1309-1318. | 1.9 | 43 |
| 47 | Comparative Binding Energy Analysis of the Substrate Specificity of Haloalkane Dehalogenase from <i>Xanthobacter autotrophicus</i> GJ10. <i>Biochemistry</i> , 2001, 40, 8905-8917. | 1.2 | 42 |
| 48 | High-affinity ligands of the colchicine domain in tubulin based on a structure-guided design. <i>Scientific Reports</i> , 2018, 8, 4242. | 1.6 | 42 |
| 49 | Advances in the Chemistry and Pharmacology of Ecteinascidins, A Promising New Class of Anticancer Agents. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2001, 1, 257-276. | 7.0 | 40 |
| 50 | A Series of Enthalpically Optimized Docetaxel Analogues Exhibiting Enhanced Antitumor Activity and Water Solubility. <i>Journal of Natural Products</i> , 2018, 81, 524-533. | 1.5 | 39 |
| 51 | Assessment of Solvation Effects on Calculated Binding Affinity Differences: Trypsin Inhibition by Flavonoids as a Model System for Congeneric Series. <i>Journal of Medicinal Chemistry</i> , 1997, 40, 4136-4145. | 2.9 | 38 |
| 52 | Bending of DNA upon Binding of Ecteinascidin 743 and Phthalascidin 650 Studied by Unrestrained Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2000, 122, 7172-7182. | 6.6 | 38 |
| 53 | Increased DNA Binding Specificity for Antitumor Ecteinascidin 743 through Protein-DNA Interactions?. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 4367-4369. | 2.9 | 38 |
| 54 | Structural Basis for the Binding of Didemnins to Human Elongation Factor eEF1A and Rationale for the Potent Antitumor Activity of These Marine Natural Products. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 4439-4452. | 2.9 | 38 |

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| 55 | Molecular dynamics simulations of the conformational changes of the glutamate receptor ligand-binding core in the presence of glutamate and kainate. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 44, 460-469. | 1.5 | 37 |
| 56 | Assessment by Molecular Dynamics Simulations of the Structural Determinants of DNA-binding Specificity for Transcription Factor Sp1. <i>Journal of Molecular Biology</i> , 2003, 328, 9-32. | 2.0 | 37 |
| 57 | Overcoming the Inadequacies or Limitations of Experimental Structures as Drug Targets by Using Computational Modeling Tools and Molecular Dynamics Simulations. <i>ChemMedChem</i> , 2007, 2, 1388-1401. | 1.6 | 36 |
| 58 | Investigation of the complexation between cyclodextrins and medetomidine enantiomers by capillary electrophoresis, NMR spectroscopy and molecular modeling. <i>Journal of Chromatography A</i> , 2018, 1567, 198-210. | 1.8 | 36 |
| 59 | Implications of a consensus recognition site for phosphatidylcholine separate from the active site in cobra venom phospholipases A2. <i>Biochemistry</i> , 1992, 31, 2887-2896. | 1.2 | 35 |
| 60 | Stepwise dissection and visualization of the catalytic mechanism of haloalkane dehalogenase LinB using molecular dynamics simulations and computer graphics. <i>Journal of Molecular Graphics and Modelling</i> , 2007, 26, 643-651. | 1.3 | 35 |
| 61 | Hiv-1 Specific Reverse Transcriptase Inhibitors: why are Tsao-Nucleosides so Unique?. <i>Journal of Carbohydrate Chemistry</i> , 2000, 19, 451-469. | 0.4 | 34 |
| 62 | Role of Histidine-85 in the Catalytic Mechanism of Thymidine Phosphorylase As Assessed by Targeted Molecular Dynamics Simulations and Quantum Mechanical Calculations. <i>Biochemistry</i> , 2004, 43, 405-414. | 1.2 | 34 |
| 63 | Role of stacking interactions in the binding sequence preferences of DNA bis-intercalators: insight from thermodynamic integration free energy simulations. <i>Nucleic Acids Research</i> , 2005, 33, 6214-6224. | 6.5 | 34 |
| 64 | Tubulin-based Structure-affinity Relationships for Antimitotic Vinca Alkaloids. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2012, 12, 219-225. | 0.9 | 34 |
| 65 | DNA Sequence-Specific Reading by Echinomycin: Role of Hydrogen Bonding and Stacking Interactions. <i>Journal of Medicinal Chemistry</i> , 1994, 37, 1602-1609. | 2.9 | 33 |
| 66 | Novel DNA Intercalators Based on the Pyridazino[1,2]pyrido[4,3-b]indol-5-inium System. <i>Journal of Organic Chemistry</i> , 1999, 64, 3907-3915. | 1.7 | 33 |
| 67 | Exploring Acyclic Nucleoside Analogues as Inhibitors of <i>Mycobacterium tuberculosis</i> Thymidylate Kinase. <i>ChemMedChem</i> , 2008, 3, 1083-1093. | 1.6 | 33 |
| 68 | 3'-[4-Aryl-(1,2,3-triazol-1-yl)]-2'-deoxythymidine Analogues as Potent and Selective Inhibitors of Human Mitochondrial Thymidine Kinase. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 2902-2912. | 2.9 | 33 |
| 69 | A molecular dynamics study of the bis-intercalation complexes of echinomycin with d(ACGT) ₂ and d(TCGA) ₂ : rationale for sequence-specific Hoogsteen base pairing. <i>Journal of Medicinal Chemistry</i> , 1993, 36, 1548-1561. | 2.9 | 32 |
| 70 | Modular Architecture and Unique Teichoic Acid Recognition Features of Choline-Binding Protein L (CbpL) Contributing to Pneumococcal Pathogenesis. <i>Scientific Reports</i> , 2016, 6, 38094. | 1.6 | 32 |
| 71 | Molecular model of the interaction between nimesulide and human cyclooxygenase-2. <i>British Journal of Rheumatology</i> , 1999, 38, 14-18. | 2.5 | 30 |
| 72 | A 3'-ET743-DNA Complex That Both Resembles an RNA-DNA Hybrid and Mimicks Zinc Finger-Induced DNA Structural Distortions. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 871-880. | 2.9 | 30 |

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| 73 | Molecular Recognition of Epothilones by Microtubules and Tubulin Dimers Revealed by Biochemical and NMR Approaches. <i>ACS Chemical Biology</i> , 2014, 9, 1033-1043. | 1.6 | 30 |
| 74 | Further Insight into the DNA Recognition Mechanism of Trabectedin from the Differential Affinity of Its Demethylated Analogue Ecteinascidin ET729 for the Triplet DNA Binding Site CGA. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 6925-6929. | 2.9 | 29 |
| 75 | First example of peptides targeting the dimer interface of <i>Leishmania infantum</i> trypanothione reductase with potent in vitro antileishmanial activity. <i>European Journal of Medicinal Chemistry</i> , 2017, 135, 49-59. | 2.6 | 29 |
| 76 | Azinium-N-(ϵ^2 -azinyloxy)aminides: synthesis, structure and reactivity. <i>Tetrahedron</i> , 1994, 50, 4995-5012. | 1.0 | 28 |
| 77 | Binding of 5'-GMP to the GluR2 AMPA Receptor: An Insight from Targeted Molecular Dynamics Simulations. <i>Biochemistry</i> , 2005, 44, 14470-14476. | 1.2 | 28 |
| 78 | Structural rationale for the chiral separation and migration order reversal of clenpenterol enantiomers in capillary electrophoresis using two different β -cyclodextrins. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27935-27939. | 1.3 | 28 |
| 79 | Enzymatic Synthesis of Therapeutic Nucleosides using a Highly Versatile Purine Nucleoside 2'-Deoxyribosyltransferase from <i>Trypanosoma brucei</i> . <i>ChemCatChem</i> , 2018, 10, 4406-4416. | 1.8 | 28 |
| 80 | Understanding the Basis of Resistance in the Irksome Lys103Asn HIV-1 Reverse Transcriptase Mutant through Targeted Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2004, 126, 15386-15387. | 6.6 | 27 |
| 81 | Improving the Antiviral Efficacy and Selectivity of HIV-1 Reverse Transcriptase Inhibitor TSAO-T by the Introduction of Functional Groups at the N-3 Position. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 6653-6660. | 2.9 | 26 |
| 82 | Viral engagement with host receptors blocked by a novel class of tryptophan dendrimers that targets the 5-fold-axis of the enterovirus-A71 capsid. <i>PLoS Pathogens</i> , 2019, 15, e1007760. | 2.1 | 26 |
| 83 | Pyrrolopyrimidine vs Imidazole-Phenyl-Thiazole Scaffolds in Nonpeptidic Dimerization Inhibitors of <i>Leishmania infantum</i> Trypanothione Reductase. <i>ACS Infectious Diseases</i> , 2019, 5, 873-891. | 1.8 | 26 |
| 84 | Automated docking and molecular dynamics simulations of nimesulide in the cyclooxygenase active site of human prostaglandin-endoperoxide synthase-2 (COX-2). <i>Journal of Computer-Aided Molecular Design</i> , 2000, 14, 147-160. | 1.3 | 25 |
| 85 | Synthesis of 3-Substituted TSAO Derivatives with Anti-HIV-1 and Anti-HIV-2 Activity through an Efficient Palladium-Catalyzed Cross-Coupling Approach. <i>Journal of Medicinal Chemistry</i> , 2002, 45, 3934-3945. | 2.9 | 25 |
| 86 | Abasic Analogues of TSAO-T as the First Sugar Derivatives That Specifically Inhibit HIV-1 Reverse Transcriptase. <i>Journal of Medicinal Chemistry</i> , 1998, 41, 4636-4647. | 2.9 | 24 |
| 87 | The Amino Acid Asn136 in HIV-1 Reverse Transcriptase (RT) Maintains Efficient Association of Both RT Subunits and Enables the Rational Design of Novel RT Inhibitors. <i>Molecular Pharmacology</i> , 2005, 68, 49-60. | 1.0 | 24 |
| 88 | Binding of eEF1A2 to the RNA-dependent protein kinase PKR modulates its activity and promotes tumour cell survival. <i>British Journal of Cancer</i> , 2018, 119, 1410-1420. | 2.9 | 24 |
| 89 | The N137 and P140 amino acids in the p51 and the P95 amino acid in the p66 subunit of human immunodeficiency virus type 1 (HIV-1) reverse transcriptase are instrumental to maintain catalytic activity and to design new classes of anti-HIV-1 drugs. <i>FEBS Letters</i> , 2005, 579, 2294-2300. | 1.3 | 23 |
| 90 | Structure, physiological role, and specific inhibitors of human thymidine kinase 2 (TK2): Present and future. <i>Medicinal Research Reviews</i> , 2008, 28, 797-820. | 5.0 | 23 |

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| 91 | Antiviral Agents: Structural Basis of Action and Rational Design. <i>Sub-Cellular Biochemistry</i> , 2013, 68, 599-630. | 1.0 | 23 |
| 92 | Probing the Dimerization Interface of <i>Leishmania infantum</i> Trypanothione Reductase with Site-Directed Mutagenesis and Short Peptides. <i>ChemBioChem</i> , 2013, 14, 1212-1217. | 1.3 | 23 |
| 93 | Esterase LpEst1 from <i>Lactobacillus plantarum</i> : A Novel and Atypical Member of the Î± Hydrolase Superfamily of Enzymes. <i>PLoS ONE</i> , 2014, 9, e92257. | 1.1 | 23 |
| 94 | Chemometrical Identification of Mutations in HIV-1 Reverse Transcriptase Conferring Resistance or Enhanced Sensitivity to Arylsulfonylbenzotriazoles. <i>Journal of the American Chemical Society</i> , 2004, 126, 2718-2719. | 6.6 | 22 |
| 95 | Phosphorylation modulates the alpha-helical structure and polymerization of a peptide from the third tau microtubule-binding repeat. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2005, 1721, 16-26. | 1.1 | 22 |
| 96 | The Protein Kinase Inhibitor Balanol: Structure-Activity Relationships and Structure-Based Computational Studies. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2008, 8, 638-645. | 0.9 | 22 |
| 97 | Understanding the Key Factors that Control the Inhibition of Type-II Dehydroquinase by (2 <i>R</i>)-Benzyldehydroquinic Acids. <i>ChemMedChem</i> , 2010, 5, 1726-1733. | 1.6 | 22 |
| 98 | A structure-based design of new C2- and C13-substituted taxanes: tubulin binding affinities and extended quantitative structure-activity relationships using comparative binding energy (COMBINE) analysis. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 3046. | 1.5 | 22 |
| 99 | Structural Determinants of the Dictyostatin Chemotype for Tubulin Binding Affinity and Antitumor Activity Against Taxane- and Epothilone-Resistant Cancer Cells. <i>ACS Omega</i> , 2016, 1, 1192-1204. | 1.6 | 22 |
| 100 | Generation of endoplasmic reticulum stress and inhibition of autophagy by plitidepsin induces proteotoxic apoptosis in cancer cells. <i>Biochemical Pharmacology</i> , 2020, 172, 113744. | 2.0 | 22 |
| 101 | Structural rationale for the cross-resistance of tumor cells bearing the A399V variant of elongation factor eEF1A1 to the structurally unrelated didemnin B, ternatin, nannocystin A and ansatrienin B. <i>Journal of Computer-Aided Molecular Design</i> , 2017, 31, 915-928. | 1.3 | 22 |
| 102 | Exploring the role of the 5'-position of TSAO-T. Synthesis and anti-HIV evaluation of novel TSAO-T derivatives. <i>Antiviral Research</i> , 2001, 50, 207-222. | 1.9 | 21 |
| 103 | In silico activation of Src tyrosine kinase reveals the molecular basis for intramolecular autophosphorylation. <i>Journal of Molecular Graphics and Modelling</i> , 2004, 23, 189-198. | 1.3 | 21 |
| 104 | gCOMBINE: A graphical user interface to perform structure-based comparative binding energy (COMBINE) analysis on a set of ligand-receptor complexes. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 162-172. | 1.5 | 21 |
| 105 | Characterization of pyrimidine nucleoside phosphorylase of <i>Mycoplasma hyorhinis</i> : implications for the clinical efficacy of nucleoside analogues. <i>Biochemical Journal</i> , 2012, 445, 113-123. | 1.7 | 21 |
| 106 | Molecular Dynamics Simulations of the Bis-Intercalated Complexes of Ditercalinium and Flexi-Di with the Hexanucleotide d(GCGCGC)2: A Theoretical Analysis of the Interaction and Rationale for the Sequence Binding Specificity. <i>Journal of Medicinal Chemistry</i> , 1996, 39, 4810-4824. | 2.9 | 20 |
| 107 | Simulation of alternative binding modes in a structure-based QSAR study of HIV-1 protease inhibitors. <i>Journal of Molecular Graphics and Modelling</i> , 1997, 15, 364-371. | 1.3 | 20 |
| 108 | Scaffold Simplification Strategy Leads to a Novel Generation of Dual Human Immunodeficiency Virus and Enterovirus-A71 Entry Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 349-368. | 2.9 | 20 |

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|-----|--|-----|-----------|
| 109 | Comparative binding energy analysis of haloalkane dehalogenase substrates: modelling of enzyme-substrate complexes by molecular docking and quantum mechanical calculations. <i>Journal of Computer-Aided Molecular Design</i> , 2003, 17, 299-311. | 1.3 | 19 |
| 110 | Modulation of Binding Strength in Several Classes of Active Site Inhibitors of Acetylcholinesterase Studied by Comparative Binding Energy Analysis. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 4471-4482. | 2.9 | 19 |
| 111 | N1-Substituted Thymine Derivatives as Mitochondrial Thymidine Kinase (TK-2) Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 7766-7773. | 2.9 | 18 |
| 112 | VSDMIP 1.5: an automated structure- and ligand-based virtual screening platform with a PyMOL graphical user interface. <i>Journal of Computer-Aided Molecular Design</i> , 2011, 25, 813-824. | 1.3 | 18 |
| 113 | Binding of Echinomycin to d(GCGC) ₂ and d(CCGG) ₂ : Distinct Stacking Interactions Dictate the Sequence-Dependent Formation of Hoogsteen Base Pairs. <i>Journal of Biomolecular Structure and Dynamics</i> , 1994, 12, 111-129. | 2.0 | 17 |
| 114 | Mitochondrial Thymidine Kinase Inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2005, 5, 1205-1219. | 1.0 | 17 |
| 115 | Protein-protein interactions at an enzyme-substrate interface: Characterization of transient reaction intermediates throughout a full catalytic cycle of <i>Escherichia coli</i> thioredoxin reductase. <i>Proteins: Structure, Function and Bioinformatics</i> , 2010, 78, 36-51. | 1.5 | 17 |
| 116 | Characterization of an atypical, thermostable, organic solvent- and acid-tolerant 2-deoxyriboseyltransferase from <i>Chroococcidiopsis thermalis</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6947-6957. | 1.7 | 17 |
| 117 | Comparative binding energy analysis. <i>Journal of Computer - Aided Molecular Design</i> , 1998, 9/11, 19-34. | 1.0 | 16 |
| 118 | Solution Structure and Stability of Tryptophan-Containing Nucleopeptide Duplexes. <i>ChemBioChem</i> , 2003, 4, 40-49. | 1.3 | 16 |
| 119 | Synthesis, modeling and evaluation of (1-aryl-1H-tetrazol-5-ylamino)-substituted 2-deoxythymidine derivatives as potent and selective human mitochondrial thymidine kinase inhibitors. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 892-901. | 1.5 | 16 |
| 120 | Molecular Interactions and Implications of Aldose Reductase Inhibition by PGA ₁ and Clinically Used Prostaglandins. <i>Molecular Pharmacology</i> , 2016, 89, 42-52. | 1.0 | 16 |
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