

Rafaela S Ferreira

List of Publications by Year in descending order

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78
papers

2,874
citations

186254

28
h-index

189881

50
g-index

84
all docs

84
docs citations

84
times ranked

3942
citing authors

#	ARTICLE	IF	CITATIONS
1	A higher flexibility at the SARS-CoV-2 main protease active site compared to SARS-CoV and its potentialities for new inhibitor virtual screening targeting multi-conformers. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 9214-9234.	3.5	7
2	pH and non-covalent ligand binding modulate Zika virus NS2B/NS3 protease binding site residues: Discoveries from MD and constant pH MD simulations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2022, 40, 10359-10372.	3.5	3
3	Impact of different protonation states on virtual screening performance against cruzain. <i>Chemical Biology and Drug Design</i> , 2022, 99, 703-716.	3.2	1
4	Characterization of an Allosteric Pocket in Zika Virus NS2B-NS3 Protease. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 945-957.	5.4	4
5	Computational approaches towards the discovery and optimisation of cruzain inhibitors. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2022, 117, e210385.	1.6	8
6	<i>S. mansonii</i> SmKI-1 Kunitz-domain: Leucine point mutation at P1 site generates enhanced neutrophil elastase inhibitory activity. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009007.	3.0	4
7	Reenacting the Birth of a Function: Functional Divergence of HIUases and Transthyretins as Inferred by Evolutionary and Biophysical Studies. <i>Journal of Molecular Evolution</i> , 2021, 89, 370-383.	1.8	1
8	PyAutoFEP: An Automated Free Energy Perturbation Workflow for GROMACS Integrating Enhanced Sampling Methods. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 4262-4273.	5.3	23
9	4-Chlorophenylthioacetone-derived thiosemicarbazones as potent antitrypanosomal drug candidates: Investigations on the mode of action. <i>Bioorganic Chemistry</i> , 2021, 113, 105018.	4.1	8
10	Dengue virus 3 genotype I shows natural changes in heparan sulphate binding sites, cell interactions, and neurovirulence in a mouse model. <i>Journal of General Virology</i> , 2021, 102, .	2.9	3
11	Structure-Based Optimization of Quinazolines as Cruzain and <i>Trypanosoma brucei</i> CATL Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 13054-13071.	6.4	19
12	The gene repertoire of the main cysteine protease of <i>Trypanosoma cruzi</i> , cruzipain, reveals four sub-types with distinct active sites. <i>Scientific Reports</i> , 2021, 11, 18231.	3.3	16
13	Multiparameter Optimization of Trypanocidal Cruzain Inhibitors With In Vivo Activity and Favorable Pharmacokinetics. <i>Frontiers in Pharmacology</i> , 2021, 12, 774069.	3.5	6
14	Discovery of Potent, Reversible, and Competitive Cruzain Inhibitors with Trypanocidal Activity: A Structure-Based Drug Design Approach. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 1028-1041.	5.4	32
15	Profiling selectivity of chagasin mutants towards cysteine proteases cruzain or cathepsin L through molecular dynamics simulations. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 39, 1-13.	3.5	1
16	Antigenic and Substrate Preference Differences between Scorpion and Spider Dermonecrotic Toxins, a Comparative Investigation. <i>Toxins</i> , 2020, 12, 631.	3.4	7
17	Synthesis of quinoline derivatives as potential cysteine protease inhibitors. <i>Future Medicinal Chemistry</i> , 2020, 12, 571-581.	2.3	9
18	Cruzain structures: apocruzain and cruzain bound to <i>S</i> -methyl thiomethanesulfonate and implications for drug design. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2019, 75, 419-427.	0.8	11

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19	2-(phenylthio)ethylidene derivatives as anti-Trypanosoma cruzi compounds: Structural design, synthesis and antiparasitic activity. <i>European Journal of Medicinal Chemistry</i> , 2019, 180, 191-203.	5.5	14
20	Benzimidazole inhibitors of the major cysteine protease of <i>Trypanosoma brucei</i> . <i>Future Medicinal Chemistry</i> , 2019, 11, 1537-1551.	2.3	7
21	Discovery and characterization of trypanocidal cysteine protease inhibitors from the "malaria box". <i>European Journal of Medicinal Chemistry</i> , 2019, 179, 765-778.	5.5	19
22	JVA, an isoniazid analogue, is a bioactive compound against a clinical isolate of the <i>Mycobacterium avium</i> complex. <i>Tuberculosis</i> , 2019, 115, 108-112.	1.9	2
23	Insights into Substrate and Inhibitor Selectivity among Human GLUT Transporters through Comparative Modeling and Molecular Docking. <i>ACS Omega</i> , 2019, 4, 4748-4760.	3.5	7
24	Design, Synthesis and In Vitro Trypanocidal and Leishmanicidal Activities of 2-(2-arylidene)hydrazono-4-oxothiazolidine-5-acetic Acid Derivatives. <i>ChemistrySelect</i> , 2019, 4, 13163-13172.	1.5	7
25	Structure-Based and Molecular Modeling Studies for the Discovery of Cyclic Imides as Reversible Cruzain Inhibitors With Potent Anti-Trypanosoma cruzi Activity. <i>Frontiers in Chemistry</i> , 2019, 7, 798.	3.6	24
26	Understanding Structure-Activity Relationships for Trypanosomal Cysteine Protease Inhibitors by Simulations and Free Energy Calculations. <i>Journal of Chemical Information and Modeling</i> , 2019, 59, 137-148.	5.4	17
27	nAPOLI: a graph-based strategy to detect and visualize conserved protein-ligand interactions in large-scale. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2019, 17, 1-1.	3.0	25
28	Structure-based Approaches Targeting Parasite Cysteine Proteases. <i>Current Medicinal Chemistry</i> , 2019, 26, 4435-4453.	2.4	10
29	Zirconium catalyzed synthesis of 2-arylidene Indan-1,3-diones and evaluation of their inhibitory activity against NS2B-NS3 WNV protease. <i>European Journal of Medicinal Chemistry</i> , 2018, 149, 98-109.	5.5	22
30	Synthesis and leishmanicidal activity of eugenol derivatives bearing 1,2,3-triazole functionalities. <i>European Journal of Medicinal Chemistry</i> , 2018, 146, 274-286.	5.5	49
31	Investigation of the binding mode of a novel cruzain inhibitor by docking, molecular dynamics, ab initio and MM/PBSA calculations. <i>Journal of Computer-Aided Molecular Design</i> , 2018, 32, 591-605.	2.9	18
32	Synthesis and structure-activity relationship studies of cruzain and rhodesain inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2018, 157, 1426-1459.	5.5	32
33	Antimetastatic effect of the pharmacological inhibition of serine/arginine-rich protein kinases (SRPK) in murine melanoma. <i>Toxicology and Applied Pharmacology</i> , 2018, 356, 214-223.	2.8	17
34	Ortho-nitrobenzyl derivatives as potential anti-schistosomal agents. <i>Brazilian Journal of Pharmaceutical Sciences</i> , 2018, 54, .	1.2	6
35	Schistosoma mansoni SmKI-1 serine protease inhibitor binds to elastase and impairs neutrophil function and inflammation. <i>PLoS Pathogens</i> , 2018, 14, e1006870.	4.7	58
36	Structure-Based Virtual Screening and Biochemical Evaluation for the Identification of Novel Trypanosoma brucei Aldolase Inhibitors. <i>Current Topics in Medicinal Chemistry</i> , 2018, 18, 397-405.	2.1	5

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37	Application of bioisosterism in design of the semicarbazone derivatives as cruzain inhibitors: a theoretical and experimental study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 1244-1259.	3.5	14
38	Synthesis and biological evaluation of potential inhibitors of the cysteine proteases cruzain and rhodesain designed by molecular simplification. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 1889-1900.	3.0	39
39	Desing and synthesis of potent anti- <i>Trypanosoma cruzi</i> agents new thiazoles derivatives which induce apoptotic parasite death. <i>European Journal of Medicinal Chemistry</i> , 2017, 130, 39-50.	5.5	40
40	Molecular modeling and structure-activity relationships for a series of benzimidazole derivatives as cruzain inhibitors. <i>Future Medicinal Chemistry</i> , 2017, 9, 641-657.	2.3	18
41	Structural design, synthesis and pharmacological evaluation of thiazoles against <i>Trypanosoma cruzi</i> . <i>European Journal of Medicinal Chemistry</i> , 2017, 141, 346-361.	5.5	43
42	<i>Corynebacterium pseudotuberculosis</i> may be under anagenesis and biovar <i>Equi</i> forms biovar <i>Ovis</i> : a phylogenetic inference from sequence and structural analysis. <i>BMC Microbiology</i> , 2016, 16, 100.	3.3	11
43	Open Source Drug Discovery with the Malaria Box Compound Collection for Neglected Diseases and Beyond. <i>PLoS Pathogens</i> , 2016, 12, e1005763.	4.7	244
44	New 1,3-thiazole derivatives and their biological and ultrastructural effects on <i>Trypanosoma cruzi</i> . <i>European Journal of Medicinal Chemistry</i> , 2016, 121, 387-398.	5.5	46
45	Design, synthesis, molecular docking and biological evaluation of thiophen-2-iminothiazolidine derivatives for use against <i>Trypanosoma cruzi</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 4228-4240.	3.0	38
46	In silico identification of essential proteins in <i>Corynebacterium pseudotuberculosis</i> based on protein-protein interaction networks. <i>BMC Systems Biology</i> , 2016, 10, 103.	3.0	24
47	Unraveling the distinctive features of hemorrhagic and non-hemorrhagic snake venom metalloproteinases using molecular simulations. <i>Journal of Computer-Aided Molecular Design</i> , 2016, 30, 69-83.	2.9	4
48	An integrated structural proteomics approach along the druggable genome of <i>Corynebacterium pseudotuberculosis</i> species for putative druggable targets. <i>BMC Genomics</i> , 2015, 16, S9.	2.8	25
49	Computational drug design strategies applied to the modelling of human immunodeficiency virus-1 reverse transcriptase inhibitors. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2015, 110, 847-864.	1.6	23
50	Synthesis of a Sugar-Based Thiosemicarbazone Series and Structure-Activity Relationship versus the Parasite Cysteine Proteases Rhodesain, Cruzain, and <i>Schistosoma mansoni</i> Cathepsin B1. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 2666-2677.	3.2	57
51	Synthesis and structure-activity relationship study of a new series of antiparasitic aryloxy thiosemicarbazones inhibiting <i>Trypanosoma cruzi</i> cruzain. <i>European Journal of Medicinal Chemistry</i> , 2015, 101, 818-835.	5.5	54
52	Structural design, synthesis and pharmacological evaluation of 4-thiazolidinones against <i>Trypanosoma cruzi</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 7478-7486.	3.0	35
53	In Silico Protein-Protein Interactions: Avoiding Data and Method Biases Over Sensitivity and Specificity. <i>Current Protein and Peptide Science</i> , 2015, 16, 689-700.	1.4	8
54	An improved interolog mapping-based computational prediction of protein-protein interactions with increased network coverage. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 1080-1087.	1.3	32

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55	Conformational restriction of aryl thiosemicarbazones produces potent and selective anti-Trypanosoma cruzi compounds which induce apoptotic parasite death. <i>European Journal of Medicinal Chemistry</i> , 2014, 75, 467-478.	5.5	46
56	Synthesis and evaluation of the antiparasitic activity of bis-(arylmethylidene) cycloalkanones. <i>European Journal of Medicinal Chemistry</i> , 2014, 71, 282-289.	5.5	43
57	Structural Design, Synthesis and Structure-Activity Relationships of Thiazolidinones with Enhanced Anti-Trypanosoma cruzi Activity. <i>ChemMedChem</i> , 2014, 9, 177-188.	3.2	39
58	2-Pyridyl thiazoles as novel anti-Trypanosoma cruzi agents: Structural design, synthesis and pharmacological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2014, 86, 48-59.	5.5	86
59	Synthesis, Biological Evaluation, and Structure-Activity Relationships of Potent Noncovalent and Nonpeptidic Cruzain Inhibitors as Anti-Trypanosoma cruzi Agents. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 2380-2392.	6.4	62
60	Proteome scale comparative modeling for conserved drug and vaccine targets identification in <i>Corynebacterium pseudotuberculosis</i> . <i>BMC Genomics</i> , 2014, 15, S3.	2.8	30
61	Structure-Based Drug Design to Overcome Drug Resistance: Challenges and Opportunities. <i>Current Pharmaceutical Design</i> , 2014, 20, 687-693.	1.9	5
62	Structural Investigation of Anti-Trypanosoma cruzi 2-Iminothiazolidin-4-ones Allows the Identification of Agents with Efficacy in Infected Mice. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 10918-10936.	6.4	55
63	Optimization of anti-Trypanosoma cruzi oxadiazoles leads to identification of compounds with efficacy in infected mice. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 6423-6433.	3.0	37
64	In silico screening strategies for novel inhibitors of parasitic diseases. <i>Expert Opinion on Drug Discovery</i> , 2011, 6, 481-489.	5.0	10
65	Integração das técnicas de triagem virtual e triagem biológica automatizada em alta escala: oportunidades e desafios em P&D de fármacos. <i>Química Nova</i> , 2011, 34, 1770-1778.	0.3	19
66	Studies toward the structural optimization of novel thiazolylhydrazone-based potent antitrypanosomal agents. <i>Bioorganic and Medicinal Chemistry</i> , 2010, 18, 7826-7835.	3.0	46
67	Identification and Optimization of Inhibitors of Trypanosomal Cysteine Proteases: Cruzain, Rhodesain, and TbCatB. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 52-60.	6.4	103
68	Quantitative Analyses of Aggregation, Autofluorescence, and Reactivity Artifacts in a Screen for Inhibitors of a Thiol Protease. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 37-51.	6.4	213
69	Complementarity Between a Docking and a High-Throughput Screen in Discovering New Cruzain Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 4891-4905.	6.4	199
70	Two approaches to discovering and developing new drugs for Chagas disease. <i>Memorias Do Instituto Oswaldo Cruz</i> , 2009, 104, 263-269.	1.6	137
71	Docking and chemoinformatic screens for new ligands and targets. <i>Current Opinion in Biotechnology</i> , 2009, 20, 429-436.	6.6	168
72	Novel non-peptidic vinylsulfones targeting the S2 and S3 subsites of parasite cysteine proteases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 6218-6221.	2.2	56

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73	Divergent Modes of Enzyme Inhibition in a Homologous Structure-Activity Series. Journal of Medicinal Chemistry, 2009, 52, 5005-5008.	6.4	84
74	Docking for fragment inhibitors of AmpC β -lactamase. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7455-7460.	7.1	101
75	S�ntese, avalia�o biol�gica e modelagem molecular de arilfuranos como inibidores da enzima tripanotona redutase. Qu�mica Nova, 2008, 31, 261-267.	0.3	16
76	A Mitogenic Protein Fraction in Latex from <i>Carica candamarcensis</i> . Planta Medica, 2003, 69, 926-932.	1.3	20
77	In vitro study on thiabendazole action on viability of <i>Ascaris lumbricoides</i> (Lineu, 1758) eggs. Revista Da Sociedade Brasileira De Medicina Tropical, 2001, 34, 319-322.	0.9	9
78	Carbamoyl Imidazoles As Potent, Reversible and Competitive Cruzain Inhibitors with <i>in vitro</i> and <i>in vivo</i> Trypanocidal Activity: A Structure-Based Drug Design Approach. SSRN Electronic Journal, 0, , .	0.4	0