

Ivone Carvalho

List of Publications by Year in descending order

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87
papers

3,639
citations

257450

24
h-index

133252

59
g-index

92
all docs

92
docs citations

92
times ranked

5318
citing authors

#	ARTICLE	IF	CITATIONS
1	Carrageenans: Biological properties, chemical modifications and structural analysis – A review. Carbohydrate Polymers, 2009, 77, 167-180.	10.2	995
2	1 \pm - and 1 2 -Glucosidase inhibitors: chemical structure and biological activity. Tetrahedron, 2006, 62, 10277-10302.	1.9	490
3	Diketopiperazines: biological activity and synthesis. Tetrahedron, 2007, 63, 9923-9932.	1.9	353
4	Application of copper(I)-catalysed azide/alkyne cycloaddition (CuAAC) – click chemistry™ in carbohydrate drug and neoglycopolymer synthesis. Tetrahedron, 2010, 66, 9475-9492.	1.9	194
5	Click chemistry™ synthesis of a library of 1,2,3-triazole-substituted galactose derivatives and their evaluation against Trypanosoma cruzi and its cell surface trans-sialidase. Bioorganic and Medicinal Chemistry, 2010, 18, 2412-2427.	3.0	126
6	Antitumour Anthracyclines: Progress and Perspectives. ChemMedChem, 2020, 15, 933-948.	3.2	89
7	Diketopiperazines produced by an Aspergillus fumigatus Brazilian strain. Journal of the Brazilian Chemical Society, 2005, 16, 1448-1453.	0.6	88
8	Stereoselectivity in Drug Metabolism: Molecular Mechanisms and Analytical Methods. Current Drug Metabolism, 2009, 10, 188-205.	1.2	57
9	Cyclooligomerisation of azido-alkyne-functionalised sugars: synthesis of 1,6-linked cyclic pseudo-galactooligosaccharides and assessment of their sialylation by Trypanosoma cruzi trans-sialidase. Chemical Science, 2010, 1, 507.	7.4	57
10	New Insights into Aminoglycoside Antibiotics and Derivatives. Current Medicinal Chemistry, 2007, 14, 1101-1119.	2.4	55
11	Design, synthesis and the effect of 1,2,3-triazole sialylmimetic neoglycoconjugates on Trypanosoma cruzi and its cell surface trans-sialidase. Bioorganic and Medicinal Chemistry, 2012, 20, 145-156.	3.0	53
12	Biotransformation of a tetrahydrofuran lignan by the endophytic fungus Phomopsis Sp.. Journal of the Brazilian Chemical Society, 2009, 20, 195-200.	0.6	48
13	Novel Triazole-Quinoline Derivatives as Selective Dual Binding Site Acetylcholinesterase Inhibitors. Molecules, 2016, 21, 193.	3.8	48
14	From dual binding site acetylcholinesterase inhibitors to allosteric modulators: A new avenue for disease-modifying drugs in Alzheimer's disease. European Journal of Medicinal Chemistry, 2017, 139, 773-791.	5.5	46
15	Molecular modeling, docking and ADMET studies applied to the design of a novel hybrid for treatment of Alzheimer's disease. Journal of Molecular Graphics and Modelling, 2006, 25, 169-175.	2.4	45
16	Chemical and chemoenzymatic synthesis of glycosyl-amino acids and glycopeptides related to Trypanosoma cruzi mucins. Organic and Biomolecular Chemistry, 2007, 5, 2645.	2.8	41
17	Glycoclusters presenting lactose on calix[4]arene cores display trypanocidal activity. Tetrahedron, 2011, 67, 5902-5912.	1.9	36
18	Medicinal Chemistry and Molecular Modeling: An Integration To Teach Drug Structure – Activity Relationship and the Molecular Basis of Drug Action. Journal of Chemical Education, 2005, 82, 588.	2.3	34

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19	Synthesis and trypanocidal activity of 1,4-bis-(3,4,5-trimethoxy-phenyl)-1,4-butanediol and 1,4-bis-(3,4-dimethoxyphenyl)-1,4-butanediol. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 7075-7082.	3.0	34
20	Dehydromonocrotaline inhibits mitochondrial complex I. A potential mechanism accounting for hepatotoxicity of monocrotaline. <i>Toxicol</i> , 2007, 50, 724-730.	1.6	34
21	Homology modeling and molecular interaction field studies of α -glucosidases as a guide to structure-based design of novel proposed anti-HIV inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , 2005, 19, 83-92.	2.9	33
22	Highly potent and selective aryl-1,2,3-triazolyl benzylpiperidine inhibitors toward butyrylcholinesterase in Alzheimer's disease. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 931-943.	3.0	29
23	Introdução a modelagem molecular de fármacos no curso experimental de química farmacêutica. <i>Química Nova</i> , 2003, 26, 428-438.	0.3	26
24	<i>In silico</i> design and search for acetylcholinesterase inhibitors in Alzheimer's disease with a suitable pharmacokinetic profile and low toxicity. <i>Future Medicinal Chemistry</i> , 2011, 3, 947-960.	2.3	26
25	Synthetic 1,2,3-triazole-linked glycoconjugates bind with high affinity to human galectin-3. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 3414-3425.	3.0	26
26	1,2,3-Triazole-based analogue of benznidazole displays remarkable activity against <i>Trypanosoma cruzi</i> . <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 6815-6826.	3.0	26
27	Practical synthesis of the 2-acetamido-3,4,6-tri-O-acetyl-2-deoxy- β -D-glucosides of Fmoc-serine and Fmoc-threonine and their benzyl esters. <i>Carbohydrate Research</i> , 2003, 338, 1039-1043.	2.3	24
28	Click chemistry oligomerisation of azido-alkyne-functionalised galactose accesses triazole-linked linear oligomers and macrocycles that inhibit <i>Trypanosoma cruzi</i> macrophage invasion. <i>Tetrahedron</i> , 2015, 71, 7344-7353.	1.9	23
29	Iminosugars: Effects of Stereochemistry, Ring Size, and N-Substituents on Glucosidase Activities. <i>Pharmaceuticals</i> , 2019, 12, 108.	3.8	23
30	Estatinas hipolipêmicas e novas tendências terapêuticas. <i>Química Nova</i> , 2007, 30, 425-430.	0.3	22
31	Using Computer-aided Drug Design and Medicinal Chemistry Strategies in the Fight Against Diabetes. <i>Journal of Biomolecular Structure and Dynamics</i> , 2011, 28, 787-796.	3.5	22
32	Synthesis and 2D-QSAR studies of neolignan-based diaryl-tetrahydrofuran and -furan analogues with remarkable activity against <i>Trypanosoma cruzi</i> and assessment of the trypanothione reductase activity. <i>European Journal of Medicinal Chemistry</i> , 2017, 140, 187-199.	5.5	20
33	Glycosidases and diabetes: metabolic changes, mode of action and therapeutic perspectives. <i>Carbohydrate Chemistry</i> , 2013, , 181-203.	0.3	20
34	Neuroprotective Effects of Cholinesterase Inhibitors: Current Scenario in Therapies for Alzheimer's Disease and Future Perspectives. <i>Journal of Alzheimer's Disease Reports</i> , 2022, 6, 177-193.	2.2	19
35	Novel and facile solution-phase synthesis of 2,5-diketopiperazines and O-glycosylated analogs. <i>Tetrahedron</i> , 2009, 65, 5343-5349.	1.9	18
36	Chameleon-like behavior of indolylpiperidines in complex with cholinesterases targets: Potent butyrylcholinesterase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2018, 145, 431-444.	5.5	18

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37	Trypanosoma cruzi Invasion into Host Cells: A Complex Molecular Targets Interplay. Mini-Reviews in Medicinal Chemistry, 2016, 16, 1084-1097.	2.4	17
38	Antibodies against Mucin-Based Glycopeptides Affect <i>Trypanosoma cruzi</i> Cell Invasion and Tumor Cell Viability. ChemBioChem, 2014, 15, 1495-1507.	2.6	16
39	Binding of triazole-linked galactosyl arylsulfonamides to galectin-3 affects <i>Trypanosoma cruzi</i> cell invasion. Bioorganic and Medicinal Chemistry, 2017, 25, 6049-6059.	3.0	16
40	Virtual Screening, Molecular Interaction Field, Molecular Dynamics, Docking, Density Functional, and ADMET Properties of Novel AChE Inhibitors in Alzheimer's Disease. Journal of Biomolecular Structure and Dynamics, 2007, 24, 515-523.	3.5	15
41	MOLECULAR DYNAMICS, DOCKING, DENSITY FUNCTIONAL, AND ADMET STUDIES OF HIV-1 REVERSE TRANSCRIPTASE INHIBITORS. Journal of Theoretical and Computational Chemistry, 2006, 05, 579-586.	1.8	14
42	Semi-Synthesis of new glycosidic triazole derivatives of dihydrocucurbitacin B. Tetrahedron Letters, 2015, 56, 303-307.	1.4	13
43	Potential Triazole-based Molecules for the Treatment of Neglected Diseases. Current Medicinal Chemistry, 2019, 26, 4403-4434.	2.4	13
44	N-Linked carba-disaccharides as potential inhibitors of glucosidases I and II. Journal of the Chemical Society Perkin Transactions 1, 1999, , 1795-1800.	0.9	12
45	Benzoic Acid Derivatives with Trypanocidal Activity: Enzymatic Analysis and Molecular Docking Studies toward Trans-Sialidase. Molecules, 2017, 22, 1863.	3.8	12
46	Beyond the "Lock and Key" Paradigm: Targeting Lipid Rafts to Induce the Selective Apoptosis of Cancer Cells. Current Medicinal Chemistry, 2018, 25, 2082-2104.	2.4	12
47	Aminoglycoside antibiotic derivatives: Preparation and evaluation of toxicity on cochlea and vestibular tissues and antimicrobial activity. Bioorganic and Medicinal Chemistry, 2007, 15, 3624-3634.	3.0	11
48	Novel glucopyranoside C2-derived 1,2,3-triazoles displaying selective inhibition of O-GlcNAcase (OGA). Carbohydrate Research, 2019, 471, 43-55.	2.3	11
49	A Synthetic MUC1 Glycopeptide Bearing $\hat{2}$ GalNAc $\hat{4}$ Thr as a Tn Antigen Isomer Induces the Production of Antibodies against Tumor Cells. ChemBioChem, 2017, 18, 527-538.	2.6	10
50	Molecular Dynamics, Density Functional, ADMET Predictions, Virtual Screening, and Molecular Interaction Field Studies for Identification and Evaluation of Novel Potential CDK2 Inhibitors In Cancer Therapy. Journal of Physical Chemistry A, 2008, 112, 8902-8910.	2.5	9
51	$\hat{1}$ -Selective glycosylation affords mucin-related GalNAc amino acids and diketopiperazines active on <i>Trypanosoma cruzi</i> . Bioorganic and Medicinal Chemistry, 2013, 21, 1978-1987.	3.0	9
52	1,2,3-Triazole tethered 2-mercaptobenzimidazole derivatives: design, synthesis and molecular assessment toward C6 glioma cell line. Future Medicinal Chemistry, 2020, 12, 689-708.	2.3	9
53	alfa e β -glucosidases como alvos moleculares para desenvolvimento de fármacos. Quimica Nova, 2006, 29, 840-843.	0.3	9
54	Novel aryl $\hat{2}$ -aminocarbonyl derivatives as inhibitors of <i>Trypanosoma cruzi</i> trypanothione reductase: binding mode revised by docking and GRIND2-based 3D-QSAR procedures. Journal of Biomolecular Structure and Dynamics, 2012, 29, 1206-1220.	3.5	8

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55	Synthesis of neamine-based pseudodisaccharides as potential vestibulotoxic agents to treat vertigo in Ménière's disease. Carbohydrate Research, 2013, 373, 97-102.	2.3	8
56	CuAAC click chemistry with N-propargyl 1,5-dideoxy-1,5-imino-D-gulitol and N-propargyl 1,6-dideoxy-1,6-imino-D-mannitol provides access to triazole-linked piperidine and azepane pseudo-disaccharide iminosugars displaying glycosidase inhibitory properties. Carbohydrate Research, 2016, 429, 29-37.	2.3	8
57	Synthesis of a novel pseudodisaccharide glycoside as a potential glycosidase inhibitor. Chemical Communications, 1998, , 817-818.	4.1	7
58	COMPUTER-AIDED MOLECULAR DESIGN OF NOVEL HMG-CoA REDUCTASE INHIBITORS FOR THE TREATMENT OF HYPERCHOLESTEROLEMIA. Journal of Theoretical and Computational Chemistry, 2007, 06, 811-821.	1.8	7
59	Synthesis, biological evaluation and molecular docking studies of novel 1,2,3-triazole-quinazolines as antiproliferative agents displaying ERK inhibitory activity. Bioorganic Chemistry, 2021, 113, 104982.	4.1	7
60	Simple and efficient synthesis of 2,5-anhydro-d-glucitol. Tetrahedron Letters, 2013, 54, 1087-1089.	1.4	6
61	Synthesis and evaluation of an ¹⁸ F-labeled trifluoroborate derivative of 2-nitroimidazole for imaging tumor hypoxia with positron emission tomography. Journal of Labelled Compounds and Radiopharmaceuticals, 2018, 61, 370-379.	1.0	6
62	Cluster glycosides and heteroglycoclusters presented in alternative arrangements. Tetrahedron Letters, 2018, 59, 4405-4409.	1.4	6
63	Improving Cytotoxicity against Breast Cancer Cells by Using Mixed-Ligand Ruthenium(II) Complexes of 2,2'-Bipyridine, Amino Acid, and Nitric Oxide Derivatives as Potential Anticancer Agents. Anti-Cancer Agents in Medicinal Chemistry, 2021, 21, 1602-1611.	1.7	6
64	Search for a platelet-activating factor receptor in the Trypanosoma cruzi proteome: a potential target for Chagas disease chemotherapy. Memórias Do Instituto Oswaldo Cruz, 2011, 106, 957-967.	1.6	5
65	Design, synthesis and enzymatic evaluation of 3- O -substituted aryl ¹² - d -galactopyranosides as inhibitors of Trypanosoma cruzi trans -sialidase. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 4529-4532.	2.2	5
66	Síntese de glicoaminoácidos de interesse biológico. Química Nova, 2008, 31, .	0.3	4
67	Insights into Anti-Trypanosomal Agents Based on Synthetic Glycoconjugates. Current Topics in Medicinal Chemistry, 2018, 18, 382-396.	2.1	4
68	Structure and Ligand-Based Drug Design to Propose Novel α -Glucosidase Inhibitors. Current Bioactive Compounds, 2009, 5, 99-109.	0.5	3
69	Combining the Pharmacophore Features of Coumarins and 1,4-Substituted 1,2,3-Triazoles to Design New Acetylcholinesterase Inhibitors: Fast and Easy Generation of 4-Methylcoumarins/1,2,3-triazoles Conjugates via Click Chemistry. Journal of the Brazilian Chemical Society, 2016, , .	0.6	3
70	Galactosyl and sialyl clusters: synthesis and evaluation against T. cruzi parasite. Pure and Applied Chemistry, 2019, 91, 1191-1207.	1.9	3
71	Novel Hybrid Acetylcholinesterase Inhibitors Induce Differentiation and Neuritogenesis in Neuronal Cells in vitro Through Activation of the AKT Pathway. Journal of Alzheimer's Disease, 2020, 78, 353-370.	2.6	3
72	Synthesis and Evaluation of [¹⁸ F]FetLos and [¹⁸ F]AMBF3Los as Novel ¹⁸ F-Labelled Losartan Derivatives for Molecular Imaging of Angiotensin II Type 1 Receptors. Molecules, 2020, 25, 1872.	3.8	3

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73	Synthesis of (+)-(2R,3S,4R)-2,3,4-trihydroxycyclohexanone from d-glucose. Carbohydrate Research, 2004, 339, 361-365.	2.3	2
74	Non-cytotoxic 1,2,3-triazole tethered fused heterocyclic ring derivatives display Tax protein inhibition and impair HTLV-1 infected cells. Bioorganic and Medicinal Chemistry, 2020, 28, 115746.	3.0	2
75	Targeting Trypanosoma cruzi Platelet-activating Factor Receptors: Scope for the Development of Novel Drugs to Treat Chagas Disease. Mini-Reviews in Medicinal Chemistry, 2013, 13, 997-1004.	2.4	2
76	HPLC analysis of glycosylated amino acids. Journal of the Brazilian Chemical Society, 2006, 17, 648-654.	0.6	1
77	Synthetic Glycans, Glycoarrays, and Glyconanoparticles To Investigate Host Infection by <i>Trypanosoma cruzi</i> . ACS Symposium Series, 2011, , 143-159.	0.5	1
78	Neamine and 2-deoxystreptamine neomycin derivatives exhibit antinociceptive activity in rat models of phasic, incision and neuropathic pain. Journal of Pharmacy and Pharmacology, 2015, 67, 1696-1704.	2.4	1
79	Synthesis of MUC1-derived glycopeptide bearing a novel triazole STn analog. Carbohydrate Research, 2020, 498, 108155.	2.3	1
80	Biological and In silico Studies on Synthetic Analogues of Tyrosine Betaine as Inhibitors of Neprilysin - A Drug Target for the Treatment of Heart Failure. Current Pharmaceutical Design, 2018, 24, 1899-1904.	1.9	1
81	Synthesis and in vitro Evaluation of Novel Galactosyl-triazolo-benzenesulfonamides Against <i>Trypanosoma cruzi</i> . Journal of the Brazilian Chemical Society, 2014, , .	0.6	1
82	Carbohydrates and Glycoproteins: Cellular Recognition and Drug Design. , 2012, , 133-151.		1
83	Carbohydrates in South America 2019 - Preface. Carbohydrate Research, 2020, 497, 108044.	2.3	0
84	General Aspects of the Microwave-Assisted Drug Development. , 2012, , 114-132.		0
85	Simple and efficient synthesis of triazole-based iminosugars with potential anti-glucosidase activity. , 0, , .		0
86	Studies toward an indanone-based hybrid with potential AchE inhibition to treat Alzheimer's disease. , 0, , .		0
87	Synthesis of glycopeptides mimetics of <i>T. cruzi</i> and tumor mucins as potential vaccines. , 0, , .		0