Marisa Freitas

List of Publications by Citations

100 papers	7,577 citations	33 h-index	87 g-index
115 ext. papers	13,968 ext. citations	7.1 avg, IF	5.3 L-index

#	Paper	IF	Citations
100	Global burden of 369 diseases and injuries in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet, The*, **2020**, 396, 1204-1222	40	1847
99	Global, regional, and national burden of chronic kidney disease, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. *Lancet, The*, **2020**, 395, 709-733	40	1021
98	Global burden of 87 risk factors in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. *Lancet, The*, **2020**, 396, 1223-1249	40	1013
97	Global, Regional, and National Cancer Incidence, Mortality, Years of Life Lost, Years Lived With Disability, and Disability-Adjusted Life-Years for 29 Cancer Groups, 1990 to 2017: A Systematic Analysis for the Global Burden of Disease Study. *JAMA Oncology*, **2019**, 5, 1749-1768	13.4	888
96	Global age-sex-specific fertility, mortality, healthy life expectancy (HALE), and population estimates in 204 countries and territories, 1950-2019: a comprehensive demographic analysis for the Global Burden of Disease Study 2019. *Lancet, The*, **2020**, 396, 1160-1203	40	228
95	Glucosidase inhibition by flavonoids: an in vitro and in silico structure-activity relationship study. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 1216-1228	5.6	153
94	Anti-inflammatory effect of rosmarinic acid and an extract of Rosmarinus officinalis in rat models of local and systemic inflammation. *Basic and Clinical Pharmacology and Toxicology*, **2015**, 116, 398-413	3.1	135
93	Optical probes for detection and quantification of neutrophils' oxidative burst. A review. *Analytica Chimica Acta*, **2009**, 649, 8-23	6.6	126
92	Five insights from the Global Burden of Disease Study 2019. *Lancet, The*, **2020**, 396, 1135-1159	40	113
91	Antioxidant and pro-oxidant activities of carotenoids and their oxidation products. *Food and Chemical Toxicology*, **2018**, 120, 681-699	4.7	85
90	Isolation and activation of human neutrophils in vitro. The importance of the anticoagulant used during blood collection. *Clinical Biochemistry*, **2008**, 41, 570-5	3.5	84
89	A comprehensive review on xanthone derivatives as glucosidase inhibitors. *European Journal of Medicinal Chemistry*, **2018**, 157, 1460-1479	6.8	76
88	Antioxidant activity of unexplored indole derivatives: synthesis and screening. *European Journal of Medicinal Chemistry*, **2010**, 45, 4869-78	6.8	74
87	Inhibition of LOX by flavonoids: a structure-activity relationship study. *European Journal of Medicinal Chemistry*, **2014**, 72, 137-45	6.8	66
86	Proinflammatory Pathways: The Modulation by Flavonoids. *Medicinal Research Reviews*, **2015**, 35, 877-936	14.4	65
85	Protective effects of hydroxytyrosol-supplemented refined olive oil in animal models of acute inflammation and rheumatoid arthritis. *Journal of Nutritional Biochemistry*, **2015**, 26, 360-8	6.3	65
84	Carotenoids inhibit lipid peroxidation and hemoglobin oxidation, but not the depletion of glutathione induced by ROS in human erythrocytes. *Life Sciences*, **2014**, 99, 52-60	6.8	60

83	Zinc, cadmium and nickel increase the activation of NF-B and the release of cytokines from THP-1 monocytic cells. *Metallomics*, **2011**, 3, 1238-43	4.5	56
82	Effects of microcystin-LR, cylindrospermopsin and a microcystin-LR/cylindrospermopsin mixture on growth, oxidative stress and mineral content in lettuce plants (Lactuca sativa L.). *Ecotoxicology and Environmental Safety*, **2015**, 116, 59-67	7	55
81	Flavonoids inhibit COX-1 and COX-2 enzymes and cytokine/chemokine production in human whole blood. *Inflammation*, **2015**, 38, 858-70	5.1	55
80	Evaluation of a flavonoids library for inhibition of pancreatic amylase towards a structure-activity relationship. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2019**, 34, 577-588	5.6	53
79	Synthesis and antioxidant properties of new chromone derivatives. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 7218-26	3.4	51
78	Interaction of polyacrylic acid coated and non-coated iron oxide nanoparticles with human neutrophils. *Toxicology Letters*, **2014**, 225, 57-65	4.4	44
77	Psidium cattleianum fruit extracts are efficient in vitro scavengers of physiologically relevant reactive oxygen and nitrogen species. *Food Chemistry*, **2014**, 165, 140-8	8.5	44
76	Size-dependent cytotoxicity of silver nanoparticles in human neutrophils assessed by multiple analytical approaches. *Life Sciences*, **2016**, 145, 247-54	6.8	43
75	Infusion, decoction and hydroalcoholic extracts of leaves from artichoke (Cynara cardunculus L. subsp. cardunculus) are effective scavengers of physiologically relevant ROS and RNS. *Food Research International*, **2014**, 64, 150-156	7	43
74	Global, regional, and national progress towards Sustainable Development Goal 3.2 for neonatal and child health: all-cause and cause-specific mortality findings from the Global Burden of Disease Study 2019. *Lancet, The*, **2021**, 398, 870-905	40	43
73	Scavenging of reactive oxygen and nitrogen species by the prodrug sulfasalazine and its metabolites 5-aminosalicylic acid and sulfapyridine. *Redox Report*, **2010**, 15, 259-67	5.9	41
72	Modulation of human neutrophils' oxidative burst by flavonoids. *European Journal of Medicinal Chemistry*, **2013**, 67, 280-92	6.8	39
71	The potential of extracts of Caryocar villosum pulp to scavenge reactive oxygen and nitrogen species. *Food Chemistry*, **2012**, 135, 1740-9	8.5	37
70	Synthesis of chlorinated flavonoids with anti-inflammatory and pro-apoptotic activities in human neutrophils. *European Journal of Medicinal Chemistry*, **2014**, 86, 153-64	6.8	34
69	Novel chromone and xanthone derivatives: Synthesis and ROS/RNS scavenging activities. *European Journal of Medicinal Chemistry*, **2016**, 115, 381-92	6.8	34
68	Biological activities of 2-styrylchromones. *Mini-Reviews in Medicinal Chemistry*, **2010**, 10, 1-7	3.2	33
67	Indole based cyclooxygenase inhibitors: synthesis, biological evaluation, docking and NMR screening. *European Journal of Medicinal Chemistry*, **2012**, 54, 823-33	6.8	32
66	Optimization of experimental settings for the analysis of human neutrophils oxidative burst in vitro. *Talanta*, **2009**, 78, 1476-83	6.2	32

65	Inhibition of protein tyrosine phosphatase 1B by flavonoids: A structure - activity relationship study. *Food and Chemical Toxicology*, **2018**, 111, 474-481	4.7	32
64	Protective effects of a blueberry extract in acute inflammation and collagen-induced arthritis in the rat. *Biomedicine and Pharmacotherapy*, **2016**, 83, 1191-1202	7.5	28
63	Carotenoids are effective inhibitors of in vitro hemolysis of human erythrocytes, as determined by a practical and optimized cellular antioxidant assay. *Journal of Food Science*, **2014**, 79, H1841-7	3.4	28
62	Nickel induces oxidative burst, NF-B activation and interleukin-8 production in human neutrophils. *Journal of Biological Inorganic Chemistry*, **2010**, 15, 1275-83	3.7	28
61	Chemical characterization of a red raspberry fruit extract and evaluation of its pharmacological effects in experimental models of acute inflammation and collagen-induced arthritis. *Food and Function*, **2014**, 5, 3241-51	6.1	27
60	Erythropoietin reduces acute lung injury and multiple organ failure/dysfunction associated to a scald-burn inflammatory injury in the rat. *Inflammation*, **2015**, 38, 312-26	5.1	26
59	A Systematic Review on Anti-diabetic Properties of Chalcones. *Current Medicinal Chemistry*, **2020**, 27, 2257-2321	4.3	26
58	Nickel induces apoptosis in human neutrophils. *BioMetals*, **2013**, 26, 13-21	3.4	25
57	Algae Polysaccharides' Chemical Characterization and their Role in the Inflammatory Process. *Current Medicinal Chemistry*, **2017**, 24, 149-175	4.3	25
56	2,3-diarylxanthones as strong scavengers of reactive oxygen and nitrogen species: a structure-activity relationship study. *Bioorganic and Medicinal Chemistry*, **2010**, 18, 6776-84	3.4	22
55	Polyacrylic acid-coated and non-coated iron oxide nanoparticles induce cytokine activation in human blood cells through TAK1, p38 MAPK and JNK pro-inflammatory pathways. *Archives of Toxicology*, **2015**, 89, 1759-69	5.8	21
54	A study towards drug discovery for the management of type 2 diabetes mellitus through inhibition of the carbohydrate-hydrolyzing enzymes amylase and glucosidase by chalcone derivatives. *Food and Function*, **2019**, 10, 5510-5520	6.1	20
53	Superoxide Anion Radical: Generation and Detection in Cellular and Non-Cellular Systems. *Current Medicinal Chemistry*, **2015**, 22, 4234-56	4.3	20
52	Biodistribution of polyacrylic acid-coated iron oxide nanoparticles is associated with proinflammatory activation and liver toxicity. *Journal of Applied Toxicology*, **2016**, 36, 1321-31	4.1	20
51	Combined dual effect of modulation of human neutrophils' oxidative burst and inhibition of colon cancer cells proliferation by hydroxycinnamic acid derivatives. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 3556-64	3.4	18
50	Chemical characterization and protective effect of the Bactris setosa Mart. fruit against oxidative/nitrosative stress. *Food Chemistry*, **2017**, 220, 427-437	8.5	18
49	Trihydroxyflavones with antioxidant and anti-inflammatory efficacy. *BioFactors*, **2012**, 38, 378-86	6.1	18
48	Iron Oxide Nanoparticles: An Insight into their Biomedical Applications. *Current Medicinal Chemistry* , **2015**, 22, 1808 - 28	4.3	18

47	Immunomodulatory Effects of Flavonoids in the Prophylaxis and Treatment of Inflammatory Bowel Diseases: A Comprehensive Review. *Current Medicinal Chemistry*, **2018**, 25, 3374-3412	4.3	18
46	Ochratoxin A activates neutrophils and kills these cells through necrosis, an effect eliminated through its conversion into ochratoxin *Toxicology*, **2016**, 368-369, 91-102	4.4	17
45	Zinc activates neutrophils' oxidative burst. *BioMetals*, **2010**, 23, 31-41	3.4	16
44	New polyhydroxylated flavon-3-ols and 3-hydroxy-2-styrylchromones: synthesis and ROS/RNS scavenging activities. *European Journal of Medicinal Chemistry*, **2016**, 119, 250-9	6.8	14
43	Analysis of the Use of Cylindrospermopsin and/or Microcystin-Contaminated Water in the Growth, Mineral Content, and Contamination of and. *Toxins*, **2019**, 11,	4.9	14
42	Acetaminophen prevents oxidative burst and delays apoptosis in human neutrophils. *Toxicology Letters*, **2013**, 219, 170-7	4.4	14
41	Anti-inflammatory Effects of Persimmon (L.) in Experimental Rodent Rheumatoid Arthritis. *Journal of Dietary Supplements*, **2020**, 17, 663-683	2.3	14
40	Flavonoids as potential agents in the management of type 2 diabetes through the modulation of amylase and glucosidase activity: a review. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-71	11.5	14
39	Quantitative histochemistry for macrophage biodistribution on mice liver and spleen after the administration of a pharmacological-relevant dose of polyacrylic acid-coated iron oxide nanoparticles. *Nanotoxicology*, **2017**, 11, 256-266	5.3	13
38	Carotene and its physiological metabolites: Effects on oxidative status regulation and genotoxicity in in vitro models. *Food and Chemical Toxicology*, **2020**, 141, 111392	4.7	13
37	Valuable Polyphenolic Antioxidants from Wine Vinasses. *Food and Bioprocess Technology*, **2012**, 5, 2708-2716	5.1	13
36	Bioactive compounds and scavenging capacity of extracts from different parts of Vismia cauliflora against reactive oxygen and nitrogen species. *Pharmaceutical Biology*, **2015**, 53, 1267-76	3.8	12
35	The dipeptidyl peptidase-4 inhibitory effect of flavonoids is hindered in protein rich environments. *Food and Function*, **2019**, 10, 5718-5731	6.1	12
34	Inhibition of NF-kB activation and cytokines production in THP-1 monocytes by 2-styrylchromones. *Medicinal Chemistry*, **2015**, 11, 560-6	1.8	10
33	Impacts of Microcystins on Morphological and Physiological Parameters of Agricultural Plants: A Review. *Plants*, **2021**, 10,	4.5	10
32	Inhibition of glycogen synthase kinase-3 attenuates organ injury and dysfunction associated with liver ischemia-reperfusion and thermal injury in the rat. *Shock*, **2015**, 43, 369-78	3.4	9
31	Structural Specificity of Flavonoids in the Inhibition of Human Fructose 1,6-Bisphosphatase. *Journal of Natural Products*, **2020**, 83, 1541-1552	4.9	8
30	Chlorinated Flavonoids Modulate the Inflammatory Process in Human Blood. *Inflammation*, **2017**, 40, 1155-1165	5.1	7

29	Stem bark and flower extracts of Vismia cauliflora are highly effective antioxidants to human blood cells by preventing oxidative burst in neutrophils and oxidative damage in erythrocytes. *Pharmaceutical Biology*, **2015**, 53, 1691-8	3.8	6
28	Pyrazoles as novel protein tyrosine phosphatase 1B (PTP1B) inhibitors: An in vitro and in silico study. *International Journal of Biological Macromolecules*, **2021**, 181, 1171-1182	7.9	6
27	Colour score as a guide for estimating the protein value of corn gluten feed. *Journal of the Science of Food and Agriculture*, **2011**, 91, 1648-52	4.3	5
26	Nano-based drug delivery systems used as vehicles to enhance polyphenols therapeutic effect for diabetes mellitus treatment. *Pharmacological Research*, **2021**, 169, 105604	10.2	5
25	Grape polyphenol-rich products with antioxidant and anti-inflammatory properties **2016**, 389-402		4
24	Metal-induced oxidative burst in isolated human neutrophils. *Microchemical Journal*, **2010**, 96, 167-171	4.8	4
23	A comprehensive review on the antidiabetic activity of flavonoids targeting PTP1B and DPP-4: a structure-activity relationship analysis. *Critical Reviews in Food Science and Nutrition*, **2021**, 1-57	11.5	4
22	Calcium Pathways in Human Neutrophils-The Extended Effects of Thapsigargin and ML-9. *Cells*, **2018**, 7,	7.9	3
21	Uncovering novel 3-hydroxy-4-pyridinone metal ion complexes with potential anti-inflammatory properties. *Journal of Inorganic Biochemistry*, **2016**, 155, 9-16	4.2	2
20	Size-dependent cytotoxicity of silver nanoparticles in human neutrophils. *Toxicology Letters*, **2015**, 238, S216	4.4	2
19	Vismia cauliflora extracts: bioactive compounds and the in vitro scavenging capacity against reactive oxygen and nitrogen species. *Free Radical Biology and Medicine*, **2014**, 75 Suppl 1, S26	7.8	2
18	Chalcones as Modulators of Neutrophil Oxidative Burst under Physiological and High Glucose Conditions. *Journal of Natural Products*, **2020**, 83, 3131-3140	4.9	2
17	The scavenging effect of curcumin, piperine and their combination against physiological relevant reactive pro-oxidant species using in vitro non-cellular and cellular models. *Chemical Papers*, **2021**, 75, 5269-5277	1.9	2
16	Flavonoids as Modulators of Neutrophils' Oxidative Burst: Structure-Activity Relationship **2018**, 261-276		2
15	Optimization of Experimental Settings for the Assessment of Reactive Oxygen Species Production by Human Blood. *Oxidative Medicine and Cellular Longevity*, **2019**, 2019, 7198484	6.7	1
14	Anti-inflammatory and pro-apoptotic activities of chlorinated flavonoids in human neutrophils. *Free Radical Biology and Medicine*, **2014**, 75 Suppl 1, S30	7.8	1
13	An In Silico and an In Vitro Inhibition Analysis of Glycogen Phosphorylase by Flavonoids, Styrylchromones, and Pyrazoles.. *Nutrients*, **2022**, 14,	6.7	1
12	Optimization and Validation of an In Vitro Standardized Glycogen Phosphorylase Activity Assay. *Molecules*, **2021**, 26,	4.8	1

11	Styrylchromones: Biological Activities and Structure-Activity Relationship.. *Oxidative Medicine and Cellular Longevity*, **2021**, 2021, 2804521	6.7	1
10	The Effect of Chalcones on the Main Sources of Reactive Species Production: Possible Therapeutic Implications in Diabetes Mellitus. *Current Medicinal Chemistry*, **2021**, 28, 1625-1669	4.3	0
9	Pro-inflammatory effects of silver nanoparticles in the intestine.. *Archives of Toxicology*, **2022**, 1	5.8	0
8	Flavonoids inhibit the production of cytokines/chemokines and induce apoptosis in human neutrophils. *Free Radical Biology and Medicine*, **2014**, 75 Suppl 1, S46	7.8	
7	Modulation of Human Neutrophils Oxidative Burst by Hydroxylated 2-Styrylchromones: The Relevance of the Catechol Group. *Biology and Life Sciences Forum*, **2021**, 7, 8		
6	Antioxidant and Pro-oxidant Activities of Carotenoids. *Reference Series in Phytochemistry*, **2021**, 1-27	0.7	
5	Assessment of HOCl Production in Human blood: Experimental Optimization and Proof of Concept for the Antioxidant Activity of Flavonoids in this Complex Matrix. *Free Radical Biology and Medicine*, **2020**, 159, S42	7.8	
4	Inflammatory Pathways and In Vivo Studies of Inflammatory Bowel Disease. *Advances in Medical Diagnosis, Treatment, and Care*, **2021**, 1-23	0.2	
3	Insights on the Potential Preventive and Healing Effects of Flavonoids in Inflammatory Bowel Disease. *Advances in Medical Diagnosis, Treatment, and Care*, **2021**, 38-66	0.2	
2	Antioxidant and Pro-oxidant Activities of Carotenoids. *Reference Series in Phytochemistry*, **2022**, 123-148	0.7	
1	A combined experimental and computational study to discover novel tyrosinase inhibitors. *Journal of Inorganic Biochemistry*, **2022**, 111879	4.2	