Marcelo P Barros

List of Publications by Year
in descending order

73	2,652	279487 23	189595 50
papers	citations	h-index	g-index

73	73	73	4073
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metabolites from algae with economical impact. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2007, 146, 60-78.	1.3	529
2	Biochemical biomarkers in algae and marine pollution: A review. Ecotoxicology and Environmental Safety, 2008, 71, 1-15.	2.9	446
3	Total phenolic content and free radical scavenging activities of methanolic extract powders of tropical fruit residues. Food Chemistry, 2009, 115, 469-475.	4.2	208
4	Evaluation of antiulcer activity of the main phenolic acids found in Brazilian Green Propolis. Journal of Ethnopharmacology, 2008, 120, 372-377.	2.0	168
5	Neuroprotective Properties of the Marine Carotenoid Astaxanthin and Omega-3 Fatty Acids, and Perspectives for the Natural Combination of Both in Krill Oil. Nutrients, 2014, 6, 1293-1317.	1.7	94
6	Astaxanthin and Peridinin Inhibit Oxidative Damage in Fe2+-Loaded Liposomes: Scavenging Oxyradicals or Changing Membrane Permeability?. Biochemical and Biophysical Research Communications, 2001, 288, 225-232.	1.0	91
7	Astaxanthin ameliorates the redox imbalance in lymphocytes of experimental diabetic rats. Chemico-Biological Interactions, 2010, 186, 306-315.	1.7	70
8	Astaxanthin prevents in vitro auto-oxidative injury in human lymphocytes. Cell Biology and Toxicology, 2010, 26, 457-467.	2.4	55
9	Density-dependent patterns of thiamine and pigment production in the diatom Nitzschia microcephala. Phytochemistry, 2003, 63, 155-163.	1.4	45
10	Dietary Carotenoid Roles in Redox Homeostasis and Human Health. Journal of Agricultural and Food Chemistry, 2018, 66, 5733-5740.	2.4	45
11	Combined astaxanthin and fish oil supplementation improves glutathione-based redox balance in rat plasma and neutrophils. Chemico-Biological Interactions, 2012, 197, 58-67.	1.7	43
12	Heat stress promotes mitochondrial instability and oxidative responses in yeast deficient in thiazole biosynthesis. Research in Microbiology, 2006, 157, 275-281.	1.0	38
13	Self-shading protects phytoplankton communities against H2O2-induced oxidative damage. Aquatic Microbial Ecology, 2003, 30, 275-282.	0.9	37
14	Astaxanthin Supplementation Delays Physical Exhaustion and Prevents Redox Imbalances in Plasma and Soleus Muscles of Wistar Rats. Nutrients, 2014, 6, 5819-5838.	1.7	36
15	Rhythmicity and oxidative/nitrosative stress in algae. Biological Rhythm Research, 2005, 36, 67-82.	0.4	35
16	Bioluminescence as a Possible Auxiliary Oxygen Detoxifying Mechanism in Elaterid Larvae. Free Radical Biology and Medicine, 1998, 24, 767-777.	1.3	34
17	The effects of strength training on cognitive performance in elderly women. Clinical Interventions in Aging, 2016, 11, 749.	1.3	33
18	Chemobrain in rats: Behavioral, morphological, oxidative and inflammatory effects of doxorubicin administration. Behavioural Brain Research, 2020, 378, 112233.	1.2	31

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19	Sustaining efficient immune functions with regular physical exercise in the COVIDâ€19 era and beyond. European Journal of Clinical Investigation, 2021, 51, e13485.	1.7	30
20	Temporal mismatch between induction of superoxide dismutase and ascorbate peroxidase correlates with high H2O2 concentration in seawater from clofibrate-treated red algae Kappaphycus alvarezii. Archives of Biochemistry and Biophysics, 2003, 420, 161-168.	1.4	29
21	Astaxanthin limits fish oil-related oxidative insult in the anterior forebrain of Wistar rats: Putative anxiolytic effects?. Pharmacology Biochemistry and Behavior, 2011, 99, 349-355.	1.3	27
22	Heteropteris aphrodisiacaO. Machadoâ€‰: effects of Extract BST 0298 on the oxidative stress of young and old rat brains. Phytotherapy Research, 2001, 15, 604-607.	2.8	26
23	Kinetic study of the plastoquinone pool availability correlated with H2O2 release in seawater and antioxidant responses in the red alga Kappaphycus alvarezii exposed to single or combined high light, chilling and chemical stresses. Biochimica Et Biophysica Acta - Bioenergetics, 2006, 1757, 1520-1528.	0.5	25
24	Combined fish oil and astaxanthin supplementation modulates rat lymphocyte function. European Journal of Nutrition, 2012, 51, 707-718.	1.8	25
25	Daily variations of antioxidant enzyme and luciferase activities in the luminescent click-beetle Pyrearinus termitilluminans: cooperation against oxygen toxicity. Insect Biochemistry and Molecular Biology, 2001, 31, 393-400.	1.2	23
26	Vision in click beetles (Coleoptera: Elateridae): pigments and spectral correspondence between visual sensitivity and species bioluminescence emission. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2010, 196, 629-638.	0.7	23
27	The interplay between thiol-compounds against chromium (VI) in the freshwater green alga Monoraphidium convolutum: Toxicology, photosynthesis, and oxidative stress at a glance. Aquatic Toxicology, 2012, 118-119, 80-87.	1.9	22
28	Luciferase and Urate may act as Antioxidant Defenses in Larval Pyrearinus termitilluminans (Elateridae: Coleoptera) During Natural Development and upon 20-Hydroxyecdysone Treatment. Photochemistry and Photobiology, 2000, 71, 648.	1.3	21
29	Co-stressors chilling and high light increase photooxidative stress in diuron-treated red alga Kappaphycus alvarezii but with lower involvement of H2O2. Pesticide Biochemistry and Physiology, 2011, 99, 7-15.	1.6	20
30	Redox Status and Neuro Inflammation Indexes in Cerebellum and Motor Cortex of Wistar Rats Supplemented with Natural Sources of Omega-3 Fatty Acids and Astaxanthin: Fish Oil, Krill Oil, and Algal Biomass. Marine Drugs, 2015, 13, 6117-6137.	2.2	20
31	Combined Exercise Training Performed by Elderly Women Reduces Redox Indexes and Proinflammatory Cytokines Related to Atherogenesis. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-9.	1.9	20
32	Effects of N-acetylcysteine on skeletal muscle structure and function in a mouse model of peripheral arterial insufficiency. Journal of Vascular Surgery, 2015, 61, 777-786.	0.6	18
33	Iron mobilization by succinylacetone methyl ester in rats. A model study for hereditary tyrosinemia and porphyrias characterized by 5-Aminolevulinic acid overload. Free Radical Research, 2000, 32, 343-353.	1.5	16
34	Astaxanthin Restrains Nitrative-Oxidative Peroxidation in Mitochondrial-Mimetic Liposomes: A Pre-Apoptosis Model. Marine Drugs, 2018, 16, 126.	2.2	16
35	L-Glutamine Supplementation Enhances Strength and Power of Knee Muscles and Improves Glycemia Control and Plasma Redox Balance in Exercising Elderly Women. Nutrients, 2021, 13, 1025.	1.7	16
36	Neurosporaxanthin Overproduction by Fusarium fujikuroi and Evaluation of Its Antioxidant Properties. Antioxidants, 2020, 9, 528.	2.2	14

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37	L-Glutamine Supplementation Improves the Benefits of Combined-Exercise Training on Oral Redox Balance and Inflammatory Status in Elderly Individuals. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-13.	1.9	14
38	DELAYED URIC ACID ACCUMULATION IN PLASMA PROVIDES ADDITIONAL ANTI-OXIDANT PROTECTION AGAINST IRON-TRIGGERED OXIDATIVE STRESS AFTER A WINGATE TEST. Biology of Sport, 2014, 31, 271-276.	1.7	14
39	High doses of sodium bicarbonate increase lactate levels and delay exhaustion in a cycling performance test. Nutrition, 2019, 60, 94-99.	1.1	13
40	Effect of Training-Detraining Phases of Multicomponent Exercises and BCAA Supplementation on Inflammatory Markers and Albumin Levels in Frail Older Persons. Nutrients, 2021, 13, 1106.	1.7	13
41	Superoxide radical protects liposome-contained cytochrome c against oxidative damage promoted by peroxynitrite and free radicals. Free Radical Biology and Medicine, 2009, 47, 841-849.	1.3	12
42	Effects of acute creatine supplementation on iron homeostasis and uric acid-based antioxidant capacity of plasma after wingate test. Journal of the International Society of Sports Nutrition, 2012, 9, 25.	1.7	12
43	Combined Chair-Based Exercises Improve Functional Fitness, Mental Well-Being, Salivary Steroid Balance, and Anti-microbial Activity in Pre-frail Older Women. Frontiers in Psychology, 2021, 12, 564490.	1.1	10
44	Effect of exercise-induced dehydration on circulatory markers of oxidative damage and antioxidant capacity. Applied Physiology, Nutrition and Metabolism, 2017, 42, 694-699.	0.9	9
45	Mixed Martial Arts: History, Physiology and Training Aspects. The Open Sports Sciences Journal, 2015, 8, 1-7.	0.2	9
46	Supra-physiological doses of testosterone affect membrane oxidation of human neutrophils monitored by the fluorescent probe C11-BODIPY581/591. European Journal of Applied Physiology, 2013, 113, 1241-1248.	1.2	8
47	Hydrogen peroxide and nitric oxide trigger redox-related cyst formation in cultures of the dinoflagellate Lingulodinium polyedrum. Harmful Algae, 2013, 27, 121-129.	2.2	8
48	Effect of 1 Repetition Maximum, 80% Repetition Maximum, and 50% Repetition Maximum Strength Exercise in Trained Individuals on Variations in Plasma Redox Biomarkers. Journal of Strength and Conditioning Research, 2017, 31, 2489-2497.	1.0	8
49	Early Signs of Inflammation With Mild Oxidative Stress in Mixed Martial Arts Athletes After Simulated Combat. Journal of Strength and Conditioning Research, 2022, 36, 180-186.	1.0	8
50	Oxidative/Nitrative Mechanism of Molsidomine Mitotoxicity Assayed by the Cytochrome c Reaction with SIN-1 in Models of Biological Membranes. Chemical Research in Toxicology, 2020, 33, 2775-2784.	1.7	8
51	Melatonin improves the antioxidant capacity in cardiac tissue of Wistar rats after exhaustive exercise. Free Radical Research, 2021, 55, 677-692.	1.5	8
52	Effect of topical application of fluoride gel NaF 2% on enzymatic and non-enzymatic antioxidant parameters of saliva. Archives of Oral Biology, 2012, 57, 630-635.	0.8	7
53	Oxidative stress and toxicology of Cu2+ based on surface areas in mixed cultures of green alga and cyanobacteria: The pivotal role of H2O2. Aquatic Toxicology, 2020, 222, 105450.	1.9	7
54	Putative benefits of microalgal astaxanthin on exercise and human health. Revista Brasileira De Farmacognosia, 2011, 21, 283-289.	0.6	6

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55	Exercise Improves Lung Inflammation, but Not Lung Remodeling and Mechanics in a Model of Bleomycin-Induced Lung Fibrosis. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-13.	1.9	6
56	Updating futsal physiology, immune system, and performance. Research in Sports Medicine, 2022, 30, 659-676.	0.7	6
57	Effect of a 40-weeks multicomponent exercise program and branched chain amino acids supplementation on functional fitness and mental health in frail older persons. Experimental Gerontology, 2021, 155, 111592.	1.2	6
58	Salivary profile of children with erosive tooth wear: a transversal study. Brazilian Oral Research, 2020, 34, e115.	0.6	6
59	The poorly conducted orchestra of steroid hormones, oxidative stress and inflammation in frailty needs a maestro: Regular physical exercise. Experimental Gerontology, 2021, 155, 111562.	1.2	5
60	l-Glutamine supplementation enhances glutathione peroxidase and paraoxonase-1 activities in HDL of exercising older individuals. Experimental Gerontology, 2021, 156, 111584.	1.2	4
61	Uric Acid and Cortisol Levels in Plasma Correlate with Pre-Competition Anxiety in Novice Athletes of Combat Sports. Brain Sciences, 2022, 12, 712.	1.1	4
62	Molybdate:sulfate ratio affects redox metabolism and viability of the dinoflagellate Lingulodinium polyedrum. Aquatic Toxicology, 2013, 142-143, 195-202.	1.9	3
63	Chemical, biological and evolutionary aspects of beetle bioluminescence. Arkivoc, 2007, 2007, 311-323.	0.3	3
64	Effects of ultraviolet radiation removal on algal communities in three high-elevation Brazilian (ultra)oligotrophic lakes. Phycologia, 0, , 1-16.	0.6	2
65	Propentofylline inhibits lipid peroxidation and improves oligodendrocyte remyelination following gliotoxic injury in the rat brainstem. Journal of Neuroimmunology, 2014, 275, 139-140.	1.1	1
66	Biomarkers of Oxidative Stress and Inflammation Pre/Post a Simulated Figth of Professional Mixed Martial Arts Athletes. Medicine and Science in Sports and Exercise, 2014, 46, 852-853.	0.2	1
67	Potential Opportunities and Challenges for Research Collaboration with Latin America in Agriculture and Food Science. Journal of Agricultural and Food Chemistry, 2017, 65, 8096-8098.	2.4	1
68	Twice-weekly exercise training reduces oxidative stress and proinflammatory cytokine levels in elder women. Motriz Revista De Educacao Fisica, 2019, 25, .	0.3	1
69	Luciferase and Urate may act as Antioxidant Defenses in Larval Pyrearinus termitilluminans (Elateridae: Coleoptera) During Natural Development and upon 20-Hydroxyecdysone Treatment. Photochemistry and Photobiology, 2000, 71, 648-654.	1.3	0
70	Fish Oil and Astaxanthin Modulates Lymphocyte Function in vivo. Free Radical Biology and Medicine, 2010, 49, S223-S224.	1.3	0
71	Phenanthrene decreases neutrophil function by disrupting intracellular redox balance. Journal of Applied Toxicology, 2010, 30, 476-486.	1.4	0
72	Acute Creatine Supplementation Increases Anaerobic Power And Plasma Urate Antioxidant Capacity Of Male Cyclists. Medicine and Science in Sports and Exercise, 2011, 43, 844-845.	0.2	0

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73	Effect of Dehydration on Plasma Oxidative Stress and Antioxidant Capacity. Medicine and Science in Sports and Exercise, 2016, 48, 568.	0.2	0