

Marcelo P Barros

List of Publications by Year in descending order

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73
papers

2,652
citations

279798
23
h-index

189892
50
g-index

73
all docs

73
docs citations

73
times ranked

4073
citing authors

#	ARTICLE	IF	CITATIONS
1	Early Signs of Inflammation With Mild Oxidative Stress in Mixed Martial Arts Athletes After Simulated Combat. <i>Journal of Strength and Conditioning Research</i> , 2022, 36, 180-186.	2.1	8
2	Updating futsal physiology, immune system, and performance. <i>Research in Sports Medicine</i> , 2022, 30, 659-676.	1.3	6
3	Uric Acid and Cortisol Levels in Plasma Correlate with Pre-Competition Anxiety in Novice Athletes of Combat Sports. <i>Brain Sciences</i> , 2022, 12, 712.	2.3	4
4	Sustaining efficient immune functions with regular physical exercise in the COVID-19 era and beyond. <i>European Journal of Clinical Investigation</i> , 2021, 51, e13485.	3.4	30
5	Combined Chair-Based Exercises Improve Functional Fitness, Mental Well-Being, Salivary Steroid Balance, and Anti-microbial Activity in Pre-frail Older Women. <i>Frontiers in Psychology</i> , 2021, 12, 564490.	2.1	10
6	L-Glutamine Supplementation Enhances Strength and Power of Knee Muscles and Improves Glycemia Control and Plasma Redox Balance in Exercising Elderly Women. <i>Nutrients</i> , 2021, 13, 1025.	4.1	16
7	Effect of Training-Detraining Phases of Multicomponent Exercises and BCAA Supplementation on Inflammatory Markers and Albumin Levels in Frail Older Persons. <i>Nutrients</i> , 2021, 13, 1106.	4.1	13
8	Melatonin improves the antioxidant capacity in cardiac tissue of Wistar rats after exhaustive exercise. <i>Free Radical Research</i> , 2021, 55, 677-692.	3.3	8
9	The poorly conducted orchestra of steroid hormones, oxidative stress and inflammation in frailty needs a maestro: Regular physical exercise. <i>Experimental Gerontology</i> , 2021, 155, 111562.	2.8	5
10	Effect of a 40-weeks multicomponent exercise program and branched chain amino acids supplementation on functional fitness and mental health in frail older persons. <i>Experimental Gerontology</i> , 2021, 155, 111592.	2.8	6
11	L-Glutamine supplementation enhances glutathione peroxidase and paraoxonase-1 activities in HDL of exercising older individuals. <i>Experimental Gerontology</i> , 2021, 156, 111584.	2.8	4
12	Chemobrain in rats: Behavioral, morphological, oxidative and inflammatory effects of doxorubicin administration. <i>Behavioural Brain Research</i> , 2020, 378, 112233.	2.2	31
13	Oxidative/Nitrative Mechanism of Molsidomine Mitotoxicity Assayed by the Cytochrome c Reaction with SIN-1 in Models of Biological Membranes. <i>Chemical Research in Toxicology</i> , 2020, 33, 2775-2784.	3.3	8
14	Exercise Improves Lung Inflammation, but Not Lung Remodeling and Mechanics in a Model of Bleomycin-Induced Lung Fibrosis. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-13.	4.0	6
15	Neurosporaxanthin Overproduction by <i>Fusarium fujikuroi</i> and Evaluation of Its Antioxidant Properties. <i>Antioxidants</i> , 2020, 9, 528.	5.1	14
16	Oxidative stress and toxicology of Cu ²⁺ based on surface areas in mixed cultures of green alga and cyanobacteria: The pivotal role of H ₂ O ₂ . <i>Aquatic Toxicology</i> , 2020, 222, 105450.	4.0	7
17	L-Glutamine Supplementation Improves the Benefits of Combined-Exercise Training on Oral Redox Balance and Inflammatory Status in Elderly Individuals. <i>Oxidative Medicine and Cellular Longevity</i> , 2020, 2020, 1-13.	4.0	14
18	Salivary profile of children with erosive tooth wear: a transversal study. <i>Brazilian Oral Research</i> , 2020, 34, e115.	1.4	6

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19	Combined Exercise Training Performed by Elderly Women Reduces Redox Indexes and Proinflammatory Cytokines Related to Atherogenesis. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-9.	4.0	20
20	High doses of sodium bicarbonate increase lactate levels and delay exhaustion in a cycling performance test. <i>Nutrition</i> , 2019, 60, 94-99.	2.4	13
21	Twice-weekly exercise training reduces oxidative stress and proinflammatory cytokine levels in elder women. <i>Motriz Revista De Educacao Fisica</i> , 2019, 25, .	0.2	1
22	Dietary Carotenoid Roles in Redox Homeostasis and Human Health. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 5733-5740.	5.2	45
23	Astaxanthin Restrains Nitrate-Oxidative Peroxidation in Mitochondrial-Mimetic Liposomes: A Pre-Apoptosis Model. <i>Marine Drugs</i> , 2018, 16, 126.	4.6	16
24	Effect of exercise-induced dehydration on circulatory markers of oxidative damage and antioxidant capacity. <i>Applied Physiology, Nutrition and Metabolism</i> , 2017, 42, 694-699.	1.9	9
25	Potential Opportunities and Challenges for Research Collaboration with Latin America in Agriculture and Food Science. <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 8096-8098.	5.2	1
26	Effect of 1 Repetition Maximum, 80% Repetition Maximum, and 50% Repetition Maximum Strength Exercise in Trained Individuals on Variations in Plasma Redox Biomarkers. <i>Journal of Strength and Conditioning Research</i> , 2017, 31, 2489-2497.	2.1	8
27	The effects of strength training on cognitive performance in elderly women. <i>Clinical Interventions in Aging</i> , 2016, 11, 749.	2.9	33
28	Effect of Dehydration on Plasma Oxidative Stress and Antioxidant Capacity. <i>Medicine and Science in Sports and Exercise</i> , 2016, 48, 568.	0.4	0
29	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. <i>Marine Drugs</i> , 2015, 13, 6117-6137.	4.6	20
30	Effects of N-acetylcysteine on skeletal muscle structure and function in a mouse model of peripheral arterial insufficiency. <i>Journal of Vascular Surgery</i> , 2015, 61, 777-786.	1.1	18
31	Mixed Martial Arts: History, Physiology and Training Aspects. <i>The Open Sports Sciences Journal</i> , 2015, 8, 1-7.	0.4	9
32	Neuroprotective Properties of the Marine Carotenoid Astaxanthin and Omega-3 Fatty Acids, and Perspectives for the Natural Combination of Both in Krill Oil. <i>Nutrients</i> , 2014, 6, 1293-1317.	4.1	94
33	Astaxanthin Supplementation Delays Physical Exhaustion and Prevents Redox Imbalances in Plasma and Soleus Muscles of Wistar Rats. <i>Nutrients</i> , 2014, 6, 5819-5838.	4.1	36
34	Propentofylline inhibits lipid peroxidation and improves oligodendrocyte remyelination following gliotoxic injury in the rat brainstem. <i>Journal of Neuroimmunology</i> , 2014, 275, 139-140.	2.3	1
35	Biomarkers of Oxidative Stress and Inflammation Pre/Post a Simulated Fight of Professional Mixed Martial Arts Athletes. <i>Medicine and Science in Sports and Exercise</i> , 2014, 46, 852-853.	0.4	1
36	DELAYED URIC ACID ACCUMULATION IN PLASMA PROVIDES ADDITIONAL ANTI-OXIDANT PROTECTION AGAINST IRON-TRIGGERED OXIDATIVE STRESS AFTER A WINGATE TEST. <i>Biology of Sport</i> , 2014, 31, 271-276.	3.2	14

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37	Molybdate:sulfate ratio affects redox metabolism and viability of the dinoflagellate <i>Lingulodinium polyedrum</i> . <i>Aquatic Toxicology</i> , 2013, 142-143, 195-202.	4.0	3
38	Supra-physiological doses of testosterone affect membrane oxidation of human neutrophils monitored by the fluorescent probe C11-BODIPY581/591. <i>European Journal of Applied Physiology</i> , 2013, 113, 1241-1248.	2.5	8
39	Hydrogen peroxide and nitric oxide trigger redox-related cyst formation in cultures of the dinoflagellate <i>Lingulodinium polyedrum</i> . <i>Harmful Algae</i> , 2013, 27, 121-129.	4.8	8
40	The interplay between thiol-compounds against chromium (VI) in the freshwater green alga <i>Monoraphidium convolutum</i> : Toxicology, photosynthesis, and oxidative stress at a glance. <i>Aquatic Toxicology</i> , 2012, 118-119, 80-87.	4.0	22
41	Effects of acute creatine supplementation on iron homeostasis and uric acid-based antioxidant capacity of plasma after wingate test. <i>Journal of the International Society of Sports Nutrition</i> , 2012, 9, 25.	3.9	12
42	Combined fish oil and astaxanthin supplementation modulates rat lymphocyte function. <i>European Journal of Nutrition</i> , 2012, 51, 707-718.	3.9	25
43	Combined astaxanthin and fish oil supplementation improves glutathione-based redox balance in rat plasma and neutrophils. <i>Chemico-Biological Interactions</i> , 2012, 197, 58-67.	4.0	43
44	Effect of topical application of fluoride gel NaF 2% on enzymatic and non-enzymatic antioxidant parameters of saliva. <i>Archives of Oral Biology</i> , 2012, 57, 630-635.	1.8	7
45	Putative benefits of microalgal astaxanthin on exercise and human health. <i>Revista Brasileira De Farmacognosia</i> , 2011, 21, 283-289.	1.4	6
46	Astaxanthin limits fish oil-related oxidative insult in the anterior forebrain of Wistar rats: Putative anxiolytic effects?. <i>Pharmacology Biochemistry and Behavior</i> , 2011, 99, 349-355.	2.9	27
47	Co-stressors chilling and high light increase photooxidative stress in diuron-treated red alga <i>Kappaphycus alvarezii</i> but with lower involvement of H ₂ O ₂ . <i>Pesticide Biochemistry and Physiology</i> , 2011, 99, 7-15.	3.6	20
48	Acute Creatine Supplementation Increases Anaerobic Power And Plasma Urate Antioxidant Capacity Of Male Cyclists. <i>Medicine and Science in Sports and Exercise</i> , 2011, 43, 844-845.	0.4	0
49	Vision in click beetles (Coleoptera: Elateridae): pigments and spectral correspondence between visual sensitivity and species bioluminescence emission. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2010, 196, 629-638.	1.6	23
50	Astaxanthin prevents in vitro auto-oxidative injury in human lymphocytes. <i>Cell Biology and Toxicology</i> , 2010, 26, 457-467.	5.3	55
51	Astaxanthin ameliorates the redox imbalance in lymphocytes of experimental diabetic rats. <i>Chemico-Biological Interactions</i> , 2010, 186, 306-315.	4.0	70
52	Fish Oil and Astaxanthin Modulates Lymphocyte Function in vivo. <i>Free Radical Biology and Medicine</i> , 2010, 49, S223-S224.	2.9	0
53	Phenanthrene decreases neutrophil function by disrupting intracellular redox balance. <i>Journal of Applied Toxicology</i> , 2010, 30, 476-486.	2.8	0
54	Superoxide radical protects liposome-contained cytochrome c against oxidative damage promoted by peroxynitrite and free radicals. <i>Free Radical Biology and Medicine</i> , 2009, 47, 841-849.	2.9	12

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55	Total phenolic content and free radical scavenging activities of methanolic extract powders of tropical fruit residues. <i>Food Chemistry</i> , 2009, 115, 469-475.	8.2	208
56	Evaluation of antiulcer activity of the main phenolic acids found in Brazilian Green Propolis. <i>Journal of Ethnopharmacology</i> , 2008, 120, 372-377.	4.1	168
57	Biochemical biomarkers in algae and marine pollution: A review. <i>Ecotoxicology and Environmental Safety</i> , 2008, 71, 1-15.	6.0	446
58	Metabolites from algae with economical impact. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2007, 146, 60-78.	2.6	529
59	Chemical, biological and evolutionary aspects of beetle bioluminescence. <i>Arkivoc</i> , 2007, 2007, 311-323.	0.5	3
60	Kinetic study of the plastoquinone pool availability correlated with H ₂ O ₂ release in seawater and antioxidant responses in the red alga <i>Kappaphycus alvarezii</i> exposed to single or combined high light, chilling and chemical stresses. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2006, 1757, 1520-1528.	1.0	25
61	Heat stress promotes mitochondrial instability and oxidative responses in yeast deficient in thiazole biosynthesis. <i>Research in Microbiology</i> , 2006, 157, 275-281.	2.1	38
62	Rhythmicity and oxidative/nitrosative stress in algae. <i>Biological Rhythm Research</i> , 2005, 36, 67-82.	0.9	35
63	Density-dependent patterns of thiamine and pigment production in the diatom <i>Nitzschia microcephala</i> . <i>Phytochemistry</i> , 2003, 63, 155-163.	2.9	45
64	Temporal mismatch between induction of superoxide dismutase and ascorbate peroxidase correlates with high H ₂ O ₂ concentration in seawater from clofibrate-treated red algae <i>Kappaphycus alvarezii</i> . <i>Archives of Biochemistry and Biophysics</i> , 2003, 420, 161-168.	3.0	29
65	Self-shading protects phytoplankton communities against H ₂ O ₂ -induced oxidative damage. <i>Aquatic Microbial Ecology</i> , 2003, 30, 275-282.	1.8	37
66	Astaxanthin and Peridinin Inhibit Oxidative Damage in Fe ²⁺ -Loaded Liposomes: Scavenging Oxyradicals or Changing Membrane Permeability?. <i>Biochemical and Biophysical Research Communications</i> , 2001, 288, 225-232.	2.1	91
67	Daily variations of antioxidant enzyme and luciferase activities in the luminescent click-beetle <i>Pyrearinus termitilluminans</i> : cooperation against oxygen toxicity. <i>Insect Biochemistry and Molecular Biology</i> , 2001, 31, 393-400.	2.7	23
68	Heteropteris aphrodisiacaO. Machado: effects of Extract BST 0298 on the oxidative stress of young and old rat brains. <i>Phytotherapy Research</i> , 2001, 15, 604-607.	5.8	26
69	Iron mobilization by succinylacetone methyl ester in rats. A model study for hereditary tyrosinemia and porphyrias characterized by 5-Aminolevulinic acid overload. <i>Free Radical Research</i> , 2000, 32, 343-353.	3.3	16
70	Luciferase and Urate may act as Antioxidant Defenses in Larval <i>Pyrearinus termitilluminans</i> (Elateridae: Coleoptera) During Natural Development and upon 20-Hydroxyecdysone Treatment. <i>Photochemistry and Photobiology</i> , 2000, 71, 648-654.	2.5	0
71	Luciferase and Urate may act as Antioxidant Defenses in Larval <i>Pyrearinus termitilluminans</i> (Elateridae: Coleoptera) During Natural Development and upon 20-Hydroxyecdysone Treatment. <i>Photochemistry and Photobiology</i> , 2000, 71, 648.	2.5	21
72	Bioluminescence as a Possible Auxiliary Oxygen Detoxifying Mechanism in Elaterid Larvae. <i>Free Radical Biology and Medicine</i> , 1998, 24, 767-777.	2.9	34

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73	Effects of ultraviolet radiation removal on algal communities in three high-elevation Brazilian (ultra)oligotrophic lakes. Phycologia, 0, , 1-16.	1.4	2