

Emmanuel Bourdon

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78 papers	3,488 citations	30 h-index	58 g-index
80 ext. papers	3,893 ext. citations	4.2 avg, IF	5.2 L-index

#	Paper	IF	Citations
78	The antioxidant properties of serum albumin. <i>FEBS Letters</i> , 2008 , 582, 1783-7	3.8	628
77	The glycation of albumin: structural and functional impacts. <i>Biochimie</i> , 2011 , 93, 645-58	4.6	292
76	Glucose and free radicals impair the antioxidant properties of serum albumin. <i>FASEB Journal</i> , 1999 , 13, 233-44	0.9	237
75	Polyphenol composition, vitamin C content and antioxidant capacity of Mauritian citrus fruit pulps. <i>Food Research International</i> , 2011 , 44, 2088-2099	7	186
74	The importance of proteins in defense against oxidation. <i>Antioxidants and Redox Signaling</i> , 2001 , 3, 293-311	3.1	161
73	Cystathionine beta synthase deficiency promotes oxidative stress, fibrosis, and steatosis in mice liver. <i>Gastroenterology</i> , 2005 , 128, 1405-15	13.3	141
72	Bioactive phenolics and antioxidant propensity of flavedo extracts of Mauritian citrus fruits: potential prophylactic ingredients for functional foods application. <i>Toxicology</i> , 2010 , 278, 75-87	4.4	129
71	Differential effects of cysteine and methionine residues in the antioxidant activity of human serum albumin. <i>Free Radical Research</i> , 2005 , 39, 15-20	4	98
70	Thermal aggregation of glycated bovine serum albumin. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 789-98	4	95
69	Structural modifications of human albumin in diabetes. <i>Diabetes and Metabolism</i> , 2012 , 38, 171-8	5.4	88
68	Effects of oxidative modifications induced by the glycation of bovine serum albumin on its structure and on cultured adipose cells. <i>Biochimie</i> , 2006 , 88, 1467-77	4.6	69
67	Shoot differentiation from protocorm callus cultures of <i>Vanilla planifolia</i> (Orchidaceae): proteomic and metabolic responses at early stage. <i>BMC Plant Biology</i> , 2010 , 10, 82	5.3	62
66	Citrus fruit extracts reduce advanced glycation end products (AGEs)- and H ₂ O ₂ -induced oxidative stress in human adipocytes. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 11119-29	5.7	57
65	Functional benefits of citrus fruits in the management of diabetes. <i>Preventive Medicine</i> , 2012 , 54 Suppl, S12-6	4.3	55
64	Impaired drug-binding capacities of in vitro and in vivo glycated albumin. <i>Biochimie</i> , 2012 , 94, 1960-7	4.6	53
63	Periodontal bacteria in human carotid atherothrombosis as a potential trigger for neutrophil activation. <i>Atherosclerosis</i> , 2014 , 236, 448-55	3.1	52
62	Mineralogical, chemical and charge properties of Geric Ferralsols from New Caledonia. <i>Geoderma</i> , 2001 , 103, 291-306	6.7	51

61	Oxidative stresses induced by glycoxidized human or bovine serum albumin on human monocytes. <i>Free Radical Biology and Medicine</i> , 2008 , 45, 799-812	7.8	50
60	Assessment of temperature effects on beta-aggregation of native and glycated albumin by FTIR spectroscopy and PAGE: relations between structural changes and antioxidant properties. <i>Archives of Biochemistry and Biophysics</i> , 2007 , 460, 141-50	4.1	50
59	Lactic Fermentation as an Efficient Tool to Enhance the Antioxidant Activity of Tropical Fruit Juices and Teas. <i>Microorganisms</i> , 2017 , 5,	4.9	44
58	The role of endogenous heme synthesis and degradation domain cysteines in cellular iron-dependent degradation of IRP2. <i>Blood Cells, Molecules, and Diseases</i> , 2003 , 31, 247-55	2.1	43
57	Effectiveness of green tea in a randomized human cohort: relevance to diabetes and its complications. <i>BioMed Research International</i> , 2013 , 2013, 412379	3	41
56	Oxidative stress and adipocyte biology: focus on the role of AGEs. <i>Oxidative Medicine and Cellular Longevity</i> , 2015 , 2015, 534873	6.7	39
55	Autotaxin downregulates LPS-induced microglia activation and pro-inflammatory cytokines production. <i>Journal of Cellular Biochemistry</i> , 2014 , 115, 2123-32	4.7	37
54	Autotaxin protects microglial cells against oxidative stress. <i>Free Radical Biology and Medicine</i> , 2012 , 52, 516-26	7.8	37
53	Identification of preferential protein targets for carbonylation in human mature adipocytes treated with native or glycated albumin. <i>Free Radical Research</i> , 2007 , 41, 1078-88	4	35
52	Impaired constitutive and regenerative neurogenesis in adult hyperglycemic zebrafish. <i>Journal of Comparative Neurology</i> , 2017 , 525, 442-458	3.4	34
51	Oleanolic acid: a novel cardioprotective agent that blunts hyperglycemia-induced contractile dysfunction. <i>PLoS ONE</i> , 2012 , 7, e47322	3.7	33
50	Glycation alters ligand binding, enzymatic, and pharmacological properties of human albumin. <i>Biochemistry</i> , 2015 , 54, 3051-62	3.2	32
49	Glycated albumin with loss of fatty acid binding capacity contributes to enhanced arachidonate oxygenation and platelet hyperactivity: relevance in patients with type 2 diabetes. <i>Diabetes</i> , 2015 , 64, 960-72	0.9	32
48	Diabetes-induced hepatic oxidative stress: a new pathogenic role for glycated albumin. <i>Free Radical Biology and Medicine</i> , 2017 , 102, 133-148	7.8	30
47	New insights into deleterious impacts of in vivo glycation on albumin antioxidant activities. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013 , 1830, 3532-41	4	30
46	Cardio-metabolic effects of HIV protease inhibitors (lopinavir/ritonavir). <i>PLoS ONE</i> , 2013 , 8, e73347	3.7	30
45	Apolipoprotein E limits oxidative stress-induced cell dysfunctions in human adipocytes. <i>FEBS Letters</i> , 2009 , 583, 2042-8	3.8	26
44	Effects of nutritional antioxidants on AAPH- or AGEs-induced oxidative stress in human SW872 liposarcoma cells. <i>Cell Biology and Toxicology</i> , 2009 , 25, 635-44	7.4	25

43	Diabetes as a risk factor to cancer: functional role of fermented papaya preparation as phytonutraceutical adjunct in the treatment of diabetes and cancer. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2014 , 768, 60-8	3.3	24
42	Identification, stress tolerance, and antioxidant activity of lactic acid bacteria isolated from tropically grown fruits and leaves. <i>Canadian Journal of Microbiology</i> , 2016 , 62, 550-61	3.2	22
41	Oxidized SOD1 alters proteasome activities in vitro and in the cortex of SOD1 overexpressing mice. <i>FEBS Letters</i> , 2005 , 579, 3613-8	3.8	22
40	Numerous proteins in Mammalian cells are prone to iron-dependent oxidation and proteasomal degradation. <i>Developmental Neuroscience</i> , 2002 , 24, 114-24	2.2	22
39	Association between Fluorescent Advanced Glycation End-Products and Vascular Complications in Type 2 Diabetic Patients. <i>BioMed Research International</i> , 2017 , 2017, 7989180	3	21
38	Comparative suppressing effects of black and green teas on the formation of advanced glycation end products (AGEs) and AGE-induced oxidative stress. <i>Food and Function</i> , 2017 , 8, 4194-4209	6.1	19
37	Relationship between fermented papaya preparation supplementation, erythrocyte integrity and antioxidant status in pre-diabetics. <i>Food and Chemical Toxicology</i> , 2014 , 65, 12-7	4.7	19
36	Effects of a short term supplementation of a fermented papaya preparation on biomarkers of diabetes mellitus in a randomized Mauritian population. <i>Preventive Medicine</i> , 2012 , 54 Suppl, S90-7	4.3	18
35	Enhanced oxidative stress and damage in glycated erythrocytes. <i>PLoS ONE</i> , 2020 , 15, e0235335	3.7	17
34	Aging and glycation promote erythrocyte phagocytosis by human endothelial cells: Potential impact in atherothrombosis under diabetic conditions. <i>Atherosclerosis</i> , 2019 , 291, 87-98	3.1	17
33	Extracts of Mauritian (var. solo) protect SW872 and HepG2 cells against hydrogen peroxide induced oxidative stress. <i>Journal of Food Science and Technology</i> , 2017 , 54, 1917-1927	3.3	17
32	High expression of apolipoprotein E impairs lipid storage and promotes cell proliferation in human adipocytes. <i>Journal of Cellular Biochemistry</i> , 2009 , 106, 608-17	4.7	17
31	Involvement of oxysterols and lysophosphatidylcholine in the oxidized LDL-induced impairment of serum albumin synthesis by HEPG2 cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 20, 2643-50	9.4	15
30	Fermented papaya preparation modulates the progression of N-methyl-N-nitrosourea induced hepatocellular carcinoma in Balb/c mice. <i>Life Sciences</i> , 2016 , 151, 330-338	6.8	15
29	Deciphering metal-induced oxidative damages on glycated albumin structure and function. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014 , 1840, 1712-24	4	14
28	Glycation of human serum albumin impairs binding to the glucagon-like peptide-1 analogue liraglutide. <i>Journal of Biological Chemistry</i> , 2018 , 293, 4778-4791	5.4	12
27	Punica granatum L. mesocarp suppresses advanced glycation end products (AGEs)- and H ₂ O ₂ -induced oxidative stress and pro-inflammatory biomarkers. <i>Journal of Functional Foods</i> , 2017 , 29, 115-126	5.1	11
26	Exploring the glycemic response to food intake with undergraduate students at the University of La Reunion. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2008 , 32, 161-4	1.9	10

25	Enhanced oxidative stress in adipose tissue from diabetic mice, possible contribution of glycated albumin. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 473, 154-160	3.4	10
24	Aqueous Extract Protects Albumin and Erythrocytes from Glycoxidative Damages. <i>Antioxidants</i> , 2020 , 9,	7.1	8
23	Studying the Physical Protection of Soil Carbon with Quantitative Infrared Spectroscopy. <i>Journal of Near Infrared Spectroscopy</i> , 2016 , 24, 199-214	1.5	8
22	Anthropometric evaluations of body composition of undergraduate students at the University of La Reunion. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2006 , 30, 248-53	1.9	7
21	Discovery of a new open-air Hoabinhian site in Luang Prabang province (Lao PDR). Dating and technological study of the lithic assemblage. <i>Comptes Rendus - Palevol</i> , 2019 , 18, 142-157	1.6	6
20	The inhibitory effect of a fermented papaya preparation on growth, hydrophobicity, and acid production of <i>Streptococcus mutans</i> , <i>Streptococcus mitis</i> , and <i>Lactobacillus acidophilus</i> : its implications in oral health improvement of diabetics. <i>Food Science and Nutrition</i> , 2013 , 1, 416-21	3.2	5
19	, a Mascarene Endemic Plant, Inhibits Human Hepatocellular Carcinoma Cells Growth In Vitro via G0/G1 Phase Cell Cycle Arrest. <i>Pharmaceuticals</i> , 2020 , 13,	5.2	5
18	Erythrocytes: Central Actors in Multiple Scenes of Atherosclerosis. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
17	Glycated human albumin alters mitochondrial respiration in preadipocyte 3T3-L1 cells. <i>BioFactors</i> , 2017 , 43, 577-592	6.1	4
16	Evaluation of maximal O ₂ uptake with undergraduate students at the University of La Reunion. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2011 , 35, 76-81	1.9	4
15	Differential effects of oxidized LDL on apolipoprotein AI and B synthesis in HepG2 cells. <i>Free Radical Biology and Medicine</i> , 2006 , 41, 786-96	7.8	3
14	Ammonium Sulfate Precipitation but Not Delipidation is a Valuable Method for Human Albumin Preparation for Biological Studies 2015 , 2,		3
13	Antiproliferative activity of <i>Syzygium coriaceum</i> , an endemic plant of Mauritius, with its UPLC-MS metabolite fingerprint: A mechanistic study. <i>PLoS ONE</i> , 2021 , 16, e0252276	3.7	3
12	Glycation abolishes the cardioprotective effects of albumin during ex vivo ischemia-reperfusion. <i>Physiological Reports</i> , 2017 , 5, e13107	2.6	2
11	Oxidative damage in diabetics: insights from a graduate study in La Reunion University. <i>Biochemistry and Molecular Biology Education</i> , 2014 , 42, 435-42	1.3	1
10	Phytophenolic Nutrients in Citrus: Biochemical and Molecular Evidence 2012 , 25-40		
9	Metabolite Profiling of Antioxidant Rich Fractions of L. Mesocarp and CD36 Expression Regulation. <i>Journal of the American College of Nutrition</i> , 2021 , 1-19	3.5	
8	Two laboratories on Human Physiology involving active participation of undergraduate students at the University of La Reunion's Island. <i>FASEB Journal</i> , 2008 , 22, 575.7	0.9	

- 7 No stress-better results?. *American Journal of Physiology - Advances in Physiology Education*, **2018**, 42, 720-722 1.9
- 6 Enhanced oxidative stress and damage in glycated erythrocytes **2020**, 15, e0235335
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