

Philippe Rondeau

List of Publications by Year in descending order

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66
papers

3,262
citations

172457

29
h-index

149698

56
g-index

66
all docs

66
docs citations

66
times ranked

5234
citing authors

#	ARTICLE	IF	CITATIONS
1	The antioxidant properties of serum albumin. FEBS Letters, 2008, 582, 1783-1787.	2.8	870
2	The glycation of albumin: Structural and functional impacts. Biochimie, 2011, 93, 645-658.	2.6	347
3	The South Pacific epidemic strain of Zika virus replicates efficiently in human epithelial A549 cells leading to IFN- β production and apoptosis induction. Virology, 2016, 493, 217-226.	2.4	123
4	Thermal aggregation of glycated bovine serum albumin. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 789-798.	2.3	106
5	Structural modifications of human albumin in diabetes. Diabetes and Metabolism, 2012, 38, 171-178.	2.9	104
6	Signaling pathways involved in LPS induced TNF α production in human adipocytes. Journal of Inflammation, 2010, 7, 1.	3.4	93
7	Chemical and near-infrared determination of moisture, fat and protein in tuna fishes. Food Chemistry, 2007, 102, 669-675.	8.2	88
8	Effects of oxidative modifications induced by the glycation of bovine serum albumin on its structure and on cultured adipose cells. Biochimie, 2006, 88, 1467-1477.	2.6	75
9	Citrus Fruit Extracts Reduce Advanced Glycation End Products (AGEs)- and H ₂ O ₂ -Induced Oxidative Stress in Human Adipocytes. Journal of Agricultural and Food Chemistry, 2010, 58, 11119-11129.	5.2	69
10	Periodontal bacteria in human carotid atherothrombosis as a potential trigger for neutrophil activation. Atherosclerosis, 2014, 236, 448-455.	0.8	66
11	Impaired drug-binding capacities of in vitro and in vivo glycated albumin. Biochimie, 2012, 94, 1960-1967.	2.6	62
12	Assessment of temperature effects on β -aggregation of native and glycated albumin by FTIR spectroscopy and PAGE: Relations between structural changes and antioxidant properties. Archives of Biochemistry and Biophysics, 2007, 460, 141-150.	3.0	56
13	Oxidative stresses induced by glycoxidized human or bovine serum albumin on human monocytes. Free Radical Biology and Medicine, 2008, 45, 799-812.	2.9	54
14	Effectiveness of Green Tea in a Randomized Human Cohort: Relevance to Diabetes and Its Complications. BioMed Research International, 2013, 2013, 1-12.	1.9	51
15	Oxidative Stress and Adipocyte Biology: Focus on the Role of AGEs. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-9.	4.0	51
16	Autotaxin Downregulates LPS-Induced Microglia Activation and Pro-Inflammatory Cytokines Production. Journal of Cellular Biochemistry, 2014, 115, 2123-2132.	2.6	46
17	Autotaxin protects microglial cells against oxidative stress. Free Radical Biology and Medicine, 2012, 52, 516-526.	2.9	42
18	Diabetes-induced hepatic oxidative stress: a new pathogenic role for glycated albumin. Free Radical Biology and Medicine, 2017, 102, 133-148.	2.9	42

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19	Oleanolic Acid: A Novel Cardioprotective Agent That Blunts Hyperglycemia-Induced Contractile Dysfunction. <i>PLoS ONE</i> , 2012, 7, e47322.	2.5	40
20	Advanced glycation end-products disrupt human endothelial cells redox homeostasis: new insights into reactive oxygen species production. <i>Free Radical Research</i> , 2019, 53, 150-169.	3.3	40
21	Cardio-Metabolic Effects of HIV Protease Inhibitors (Lopinavir/Ritonavir). <i>PLoS ONE</i> , 2013, 8, e73347.	2.5	39
22	Enhanced oxidative stress and damage in glycated erythrocytes. <i>PLoS ONE</i> , 2020, 15, e0235335.	2.5	38
23	Identification of preferential protein targets for carbonylation in human mature adipocytes treated with native or glycated albumin. <i>Free Radical Research</i> , 2007, 41, 1078-1088.	3.3	37
24	Association between Fluorescent Advanced Glycation End-Products and Vascular Complications in Type 2 Diabetic Patients. <i>BioMed Research International</i> , 2017, 2017, 1-10.	1.9	36
25	Glycation Alters Ligand Binding, Enzymatic, and Pharmacological Properties of Human Albumin. <i>Biochemistry</i> , 2015, 54, 3051-3062.	2.5	35
26	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, 60-68.	1.0	31
27	Aging and glycation promote erythrocyte phagocytosis by human endothelial cells: Potential impact in atherothrombosis under diabetic conditions. <i>Atherosclerosis</i> , 2019, 291, 87-98.	0.8	31
28	Hyperglycemia modulates redox, inflammatory and vasoactive markers through specific signaling pathways in cerebral endothelial cells: Insights on insulin protective action. <i>Free Radical Biology and Medicine</i> , 2019, 130, 59-70.	2.9	31
29	New insights into deleterious impacts of in vivo glycation on albumin antioxidant activities. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3532-3541.	2.4	30
30	Effects of nutritional antioxidants on AAPH- or AGEs-induced oxidative stress in human SW872 liposarcoma cells. <i>Cell Biology and Toxicology</i> , 2009, 25, 635-644.	5.3	29
31	Apolipoprotein E limits oxidative stress-induced cell dysfunctions in human adipocytes. <i>FEBS Letters</i> , 2009, 583, 2042-2048.	2.8	28
32	A hemorrhagic transformation model of mechanical stroke therapy with acute hyperglycemia in mice. <i>Journal of Comparative Neurology</i> , 2018, 526, 1006-1016.	1.6	28
33	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.	3.4	27
34	Attenuated Total Reflection-Fourier transform infrared analysis of the fermentation process of pineapple. <i>Analytica Chimica Acta</i> , 2005, 545, 99-106.	5.4	26
35	Volatile constituents of five Citrus Petitgrain essential oils from Reunion. <i>Flavour and Fragrance Journal</i> , 2005, 20, 399-402.	2.6	26
36	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.	4.6	25

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37	Monolayers of Cellulose Ethers at the Air-Water Interface. <i>Langmuir</i> , 1996, 12, 5614-5619.	3.5	24
38	Relationship between fermented papaya preparation supplementation, erythrocyte integrity and antioxidant status in pre-diabetics. <i>Food and Chemical Toxicology</i> , 2014, 65, 12-17.	3.6	24
39	Erythrocytes: Central Actors in Multiple Scenes of Atherosclerosis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5843.	4.1	24
40	Circulating Concentrations of Redox Biomarkers Do Not Improve the Prediction of Adverse Cardiovascular Events in Patients With Type 2 Diabetes Mellitus. <i>Journal of the American Heart Association</i> , 2018, 7, .	3.7	22
41	Advanced glycation end-products disrupt brain microvascular endothelial cell barrier: The role of mitochondria and oxidative stress. <i>Microvascular Research</i> , 2021, 133, 104098.	2.5	22
42	Sugar Interaction with Metals in Aqueous Solution: Indirect Determination from Infrared and Direct Determination from Nuclear Magnetic Resonance Spectroscopy. <i>Applied Spectroscopy</i> , 2003, 57, 466-472.	2.2	21
43	Impaired brain homeostasis and neurogenesis in diet-induced overweight zebrafish: a preventive role from <i>A. borbonica</i> extract. <i>Scientific Reports</i> , 2020, 10, 14496.	3.3	21
44	A facile route to glycated albumin detection. <i>Talanta</i> , 2018, 184, 507-512.	5.5	20
45	Deciphering metal-induced oxidative damages on glycated albumin structure and function. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1712-1724.	2.4	17
46	Antioxidant Polyphenols of <i>Antirhea borbonica</i> Medicinal Plant and Caffeic Acid Reduce Cerebrovascular, Inflammatory and Metabolic Disorders Aggravated by High-Fat Diet-Induced Obesity in a Mouse Model of Stroke. <i>Antioxidants</i> , 2022, 11, 858.	5.1	17
47	<i>Antirhea borbonica</i> Aqueous Extract Protects Albumin and Erythrocytes from Glycoxidative Damages. <i>Antioxidants</i> , 2020, 9, 415.	5.1	16
48	<i>Terminalia bitorquata</i> , a Mascarene Endemic Plant, Inhibits Human Hepatocellular Carcinoma Cells Growth In Vitro via G0/G1 Phase Cell Cycle Arrest. <i>Pharmaceuticals</i> , 2020, 13, 303.	3.8	15
49	Prognostic Values of Inflammatory and Redox Status Biomarkers on the Risk of Major Lower-Extremity Artery Disease in Individuals With Type 2 Diabetes. <i>Diabetes Care</i> , 2018, 41, 2162-2169.	8.6	14
50	<i>Punica granatum</i> 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.	3.4	13
51	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.	2.1	10
52	Caffeic Acid, One of the Major Phenolic Acids of the Medicinal Plant <i>Antirhea borbonica</i> , Reduces Renal Tubulointerstitial Fibrosis. <i>Biomedicines</i> , 2021, 9, 358.	3.2	10
53	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.	2.5	9
54	INDIRECT METAL ION (K ⁺ , NA ⁺ , MG ²⁺ , AND CA ²⁺) QUANTIFICATION FROM INFRARED SPECTROSCOPY. <i>Applied Spectroscopy Reviews</i> , 2002, 37, 119-136.	6.7	8

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55	Study of the Interactions between Sucrose and Metal Ions (Mg ²⁺ and K ⁺) and Their Simultaneous Quantification in Ternary Mixture by Mid-Infrared and ¹³ C Nuclear Magnetic Resonance Spectroscopies. <i>Applied Spectroscopy</i> , 2004, 58, 816-822.	2.2	7
56	Glycation abolishes the cardioprotective effects of albumin during ex vivo ischemia-reperfusion. <i>Physiological Reports</i> , 2017, 5, e13107.	1.7	6
57	Glycated human albumin alters mitochondrial respiration in preadipocyte 3T3-L1 cells. <i>BioFactors</i> , 2017, 43, 577-592.	5.4	5
58	Quantification of alcohol in beverages by density and infrared spectroscopy methods. <i>International Journal of Food Sciences and Nutrition</i> , 2005, 56, 177-183.	2.8	4
59	Ammonium Sulfate Precipitation but Not Delipidation is a Valuable Method for Human Albumin Preparation for Biological Studies. <i>International Journal of Diabetes & Clinical Diagnosis</i> , 2015, 2, .	0.2	3
60	ApoA-I Nanoparticles as Curcumin Carriers for Cerebral Endothelial Cells: Improved Cytoprotective Effects against Methylglyoxal. <i>Pharmaceuticals</i> , 2022, 15, 347.	3.8	3
61	Stabilisation of spread monolayers of an amine-functionalised biphenyl mesogen by association with a carboxymethyl cellulose salt. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 2535-2541.	2.2	2
62	Impact of Enhanced Phagocytosis of Glycated Erythrocytes on Human Endothelial Cell Functions. <i>Cells</i> , 2022, 11, 2200.	4.1	2
63	Oxidative damage in diabetics: Insights from a graduate study in <i>L</i> a <i>R</i> eunion <i>U</i> niversity. <i>Biochemistry and Molecular Biology Education</i> , 2014, 42, 435-442.	1.2	1
64	Phytophenolic Nutrients in Citrus: Biochemical and Molecular Evidence. , 2012, , 25-40.		0
65	Metabolite Profiling of Antioxidant Rich Fractions of <i>Punica granatum</i> L. Mesocarp and CD36 Expression Regulation. <i>Journal of the American College of Nutrition</i> , 2023, 42, 36-54.	1.8	0
66	Antioxidant and Cytoprotective Properties of Polyphenol-Rich Extracts from <i>Antirhea borbonica</i> and <i>Doratoxylon apetalum</i> against Atherogenic Lipids in Human Endothelial Cells. <i>Antioxidants</i> , 2022, 11, 34.	5.1	0