

Pierre Van Antwerpen

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.

114
papers

2,502
citations

28
h-index

44
g-index

120
ext. papers

2,993
ext. citations

4.7
avg, IF

4.79
L-index

#	Paper	IF	Citations
114	Allosteric regulation of G protein-coupled receptor activity by phospholipids. <i>Nature Chemical Biology</i> , 2016 , 12, 35-9	11.7	183
113	Phosphatidylethanolamine Is a Key Regulator of Membrane Fluidity in Eukaryotic Cells. <i>Journal of Biological Chemistry</i> , 2016 , 291, 3658-67	5.4	170
112	Targeting of eEF1A with Amaryllidaceae isocarbostryls as a strategy to combat melanomas. <i>FASEB Journal</i> , 2010 , 24, 4575-84	0.9	94
111	Benefits of napping and an extended duration of recovery sleep on alertness and immune cells after acute sleep restriction. <i>Brain, Behavior, and Immunity</i> , 2011 , 25, 16-24	16.6	90
110	New Folate-Grafted Chitosan Derivative To Improve Delivery of Paclitaxel-Loaded Solid Lipid Nanoparticles for Lung Tumor Therapy by Inhalation. <i>Molecular Pharmaceutics</i> , 2018 , 15, 899-910	5.6	82
109	Differential Effects of E-Cigarette on Microvascular Endothelial Function, Arterial Stiffness and Oxidative Stress: A Randomized Crossover Trial. <i>Scientific Reports</i> , 2018 , 8, 10378	4.9	79
108	Low-density lipoprotein modified by myeloperoxidase in inflammatory pathways and clinical studies. <i>Mediators of Inflammation</i> , 2013 , 2013, 971579	4.3	58
107	Nanoimmunoassay onto a screen printed electrode for HER2 breast cancer biomarker determination. <i>Talanta</i> , 2014 , 130, 164-70	6.2	57
106	A large-bolus injection, but not continuous infusion of sodium selenite improves outcome in peritonitis. <i>Shock</i> , 2009 , 32, 140-6	3.4	55
105	Resveratrol inhibits the activity of equine neutrophil myeloperoxidase by a direct interaction with the enzyme. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 8080-7	5.7	54
104	Glycan characterization of biopharmaceuticals: Updates and perspectives. <i>Analytica Chimica Acta</i> , 2016 , 921, 13-27	6.6	53
103	Impact of myeloperoxidase-LDL interactions on enzyme activity and subsequent posttranslational oxidative modifications of apoB-100. <i>Journal of Lipid Research</i> , 2014 , 55, 747-57	6.3	47
102	Free radical-scavenging, antioxidant and immunostimulating effects of a licorice infusion (<i>Glycyrrhiza glabra</i> L.). <i>Food Chemistry</i> , 2010 , 122, 508-517	8.5	45
101	Structure-based design, synthesis, and pharmacological evaluation of 3-(aminoalkyl)-5-fluoroindoles as myeloperoxidase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 8747-59	8.3	43
100	Glycosylation pattern of mature dimeric leukocyte and recombinant monomeric myeloperoxidase: glycosylation is required for optimal enzymatic activity. <i>Journal of Biological Chemistry</i> , 2010 , 285, 16351-59	15.9	42
99	Metabolomics fingerprint of coffee species determined by untargeted-profiling study using LC-HRMS. <i>Food Chemistry</i> , 2018 , 245, 603-612	8.5	41
98	Thiol-containing molecules interact with the myeloperoxidase/H ₂ O ₂ /chloride system to inhibit LDL oxidation. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 337, 82-8	3.4	41

97	Triggering of inflammatory response by myeloperoxidase-oxidized LDL. <i>Biochemistry and Cell Biology</i> , 2006 , 84, 805-12	3.6	41
96	In vitro comparative assessment of the scavenging activity against three reactive oxygen species of non-steroidal anti-inflammatory drugs from the oxicam and sulfoanilide families. <i>European Journal of Pharmacology</i> , 2004 , 496, 55-61	5.3	40
95	Inhibition of myeloperoxidase activity by the alkaloids of <i>Peganum harmala</i> L. (Zygophyllaceae). <i>Journal of Ethnopharmacology</i> , 2014 , 154, 361-9	5	36
94	A new easy method for specific measurement of active myeloperoxidase in human biological fluids and tissue extracts. <i>Talanta</i> , 2009 , 80, 723-9	6.2	36
93	Simple di- and trivanillates exhibit cytostatic properties toward cancer cells resistant to pro-apoptotic stimuli. <i>Bioorganic and Medicinal Chemistry</i> , 2010 , 18, 3823-33	3.4	34
92	Characterization and antioxidant properties of six Algerian propolis extracts: ethyl acetate extracts inhibit myeloperoxidase activity. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 2327-45	6.3	32
91	Flavonoids as promoters of the (pseudo-)halogenating activity of lactoperoxidase and myeloperoxidase. <i>Free Radical Biology and Medicine</i> , 2016 , 97, 307-319	7.8	32
90	Myeloperoxidase and its products in synovial fluid of patients with treated or untreated rheumatoid arthritis. <i>Free Radical Research</i> , 2014 , 48, 461-5	4	29
89	Design, synthesis, and structure-activity relationship studies of novel 3-alkylindole derivatives as selective and highly potent myeloperoxidase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 3943-58	8.3	29
88	Ophiobolin A, a sesterterpenoid fungal phytotoxin, displays higher in vitro growth-inhibitory effects in mammalian than in plant cells and displays in vivo antitumor activity. <i>International Journal of Oncology</i> , 2013 , 43, 575-85	4.4	29
87	Effects of phosphodiesterase inhibitors on the inflammatory response of endothelial cells stimulated by myeloperoxidase-modified low-density lipoprotein or tumor necrosis factor alpha. <i>European Urology</i> , 2010 , 57, 522-8	10.2	29
86	Evaluation of new scaffolds of myeloperoxidase inhibitors by rational design combined with high-throughput virtual screening. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 7208-18	8.3	27
85	Myeloperoxidase-catalyzed oxidation of cyanide to cyanate: A potential carbamylation route involved in the formation of atherosclerotic plaques?. <i>Journal of Biological Chemistry</i> , 2018 , 293, 6374-6386	5.4	26
84	Variations in the chemical profile and biological activities of licorice (<i>Glycyrrhiza glabra</i> L.), as influenced by harvest times. <i>Acta Physiologiae Plantarum</i> , 2013 , 35, 1337-1349	2.6	26
83	Oxidative stress and prostatic diseases. <i>Molecular and Clinical Oncology</i> , 2017 , 7, 723-728	1.6	25
82	The other myeloperoxidase: Emerging functions. <i>Archives of Biochemistry and Biophysics</i> , 2018 , 649, 1-14	4.1	25
81	Myeloperoxidase as a Target for the Treatment of Inflammatory Syndromes: Mechanisms and Structure Activity Relationships of Inhibitors. <i>Current Medicinal Chemistry</i> , 2016 , 23, 3975-4008	4.3	25
80	Copper and myeloperoxidase-modified LDLs activate Nrf2 through different pathways of ROS production in macrophages. <i>Antioxidants and Redox Signaling</i> , 2010 , 13, 1491-502	8.4	24

79	Inhibition of the myeloperoxidase chlorinating activity by non-steroidal anti-inflammatory drugs: flufenamic acid and its 5-chloro-derivative directly interact with a recombinant human myeloperoxidase to inhibit the synthesis of hypochlorous acid. <i>European Journal of Pharmacology</i> , 2007 , 570, 235-43	5.3	24
78	Simultaneous measurement of protein-bound 3-chlorotyrosine and homocitrulline by LC-MS/MS after hydrolysis assisted by microwave: application to the study of myeloperoxidase activity during hemodialysis. <i>Talanta</i> , 2012 , 99, 603-9	6.2	22
77	Conception of myeloperoxidase inhibitors derived from flufenamic acid by computational docking and structure modification. <i>Bioorganic and Medicinal Chemistry</i> , 2008 , 16, 1702-20	3.4	22
76	Temporal dissociation between myeloperoxidase (MPO)-modified LDL and MPO elevations during chronic sleep restriction and recovery in healthy young men. <i>PLoS ONE</i> , 2011 , 6, e28230	3.7	22
75	Discovery of Novel Potent Reversible and Irreversible Myeloperoxidase Inhibitors Using Virtual Screening Procedure. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 6563-6586	8.3	21
74	Liquid chromatography-quadrupole time of flight tandem mass spectrometry-based targeted metabolomic study for varietal discrimination of grapes according to plant sterols content. <i>Journal of Chromatography A</i> , 2016 , 1454, 67-77	4.5	21
73	The waste of saffron crop, a cheap source of bioactive compounds. <i>Journal of Functional Foods</i> , 2017 , 35, 341-351	5.1	20
72	Intriguing location of myeloperoxidase in the prostate: a preliminary immunohistochemical study. <i>Prostate</i> , 2012 , 72, 507-13	4.2	20
71	Batch-to-batch N-glycosylation study of infliximab, trastuzumab and bevacizumab, and stability study of bevacizumab. <i>European Journal of Hospital Pharmacy</i> , 2017 , 24, 286-292	1.6	19
70	Multidomain human peroxidase 1 is a highly glycosylated and stable homotrimeric high spin ferric peroxidase. <i>Journal of Biological Chemistry</i> , 2015 , 290, 10876-90	5.4	19
69	Ceramide, cerebroside and triterpenoid saponin from the bark of aerial roots of <i>Ficus elastica</i> (Moraceae). <i>Phytochemistry</i> , 2012 , 83, 95-103	4	18
68	Severe Hypouricemia Impairs Endothelium-Dependent Vasodilatation and Reduces Blood Pressure in Healthy Young Men: A Randomized, Placebo-Controlled, and Crossover Study. <i>Journal of the American Heart Association</i> , 2019 , 8, e013130	6	18
67	An immunological method to combine the measurement of active and total myeloperoxidase on the same biological fluid, and its application in finding inhibitors which interact directly with the enzyme. <i>Free Radical Research</i> , 2015 , 49, 790-9	4	17
66	Dysregulation of Macropinocytosis Processes in Glioblastomas May Be Exploited to Increase Intracellular Anti-Cancer Drug Levels: The Example of Temozolomide. <i>Cancers</i> , 2019 , 11,	6.6	16
65	High-Wattage E-Cigarettes Induce Tissue Hypoxia and Lower Airway Injury: A Randomized Clinical Trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018 , 198, 123-126	10.2	16
64	Native and myeloperoxidase-oxidized low-density lipoproteins act in synergy to induce release of resolvin-D1 from endothelial cells. <i>Atherosclerosis</i> , 2018 , 272, 108-117	3.1	16
63	New dry powders for inhalation containing temozolomide-based nanomicelles for improved lung cancer therapy. <i>International Journal of Oncology</i> , 2015 , 47, 1131-42	4.4	16
62	From Dynamic Combinatorial Chemistry to Evaluation of Reversible and Irreversible Myeloperoxidase Inhibitors. <i>ACS Medicinal Chemistry Letters</i> , 2017 , 8, 206-210	4.3	15

61	LC-MS analysis combined with principal component analysis and soft independent modelling by class analogy for a better detection of changes in N-glycosylation profiles of therapeutic glycoproteins. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 477-485	4.4	13
60	In vitro anticancer activity, toxicity and structure-activity relationships of phyllostictine A, a natural oxazatricycloalkenone produced by the fungus <i>Phyllosticta cirsii</i> . <i>Toxicology and Applied Pharmacology</i> , 2011 , 254, 8-17	4.6	13
59	Novel bis-arylalkylamines as myeloperoxidase inhibitors: Design, synthesis, and structure-activity relationship study. <i>European Journal of Medicinal Chemistry</i> , 2016 , 123, 746-762	6.8	12
58	Myeloperoxidase promotes tube formation, triggers ERK1/2 and Akt pathways and is expressed endogenously in endothelial cells. <i>Archives of Biochemistry and Biophysics</i> , 2018 , 654, 55-69	4.1	12
57	Hybrid molecules inhibiting myeloperoxidase activity and serotonin reuptake: a possible new approach of major depressive disorders with inflammatory syndrome. <i>Journal of Pharmacy and Pharmacology</i> , 2014 , 66, 1122-32	4.8	12
56	Exposure of endothelial cells to physiological levels of myeloperoxidase-modified LDL delays pericellular fibrinolysis. <i>PLoS ONE</i> , 2012 , 7, e38810	3.7	12
55	Targeting Cytosolic Phospholipase A2 for Novel Anti-Inflammatory Agents. <i>Current Medicinal Chemistry</i> , 2018 , 25, 2418-2447	4.3	12
54	Validation of a LC/MSMS method for simultaneous quantification of 9 nucleotides in biological matrices. <i>Talanta</i> , 2019 , 193, 206-214	6.2	12
53	Chemical composition of propolis extract and its effects on epirubicin-induced hepatotoxicity in rats. <i>Revista Brasileira De Farmacognosia</i> , 2019 , 29, 294-300	2	11
52	Advancement in stationary phase for peptide separation helps in protein identification: application to atheroma plaque proteomics using nano-chip liquid chromatography and mass spectrometry. <i>Journal of Chromatography A</i> , 2015 , 1385, 116-23	4.5	11
51	Enzyme immobilized magnetic nanoparticles for in-line capillary electrophoresis and drug biotransformation studies: application to paracetamol. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2010 , 13, 455-60	1.3	11
50	Coronary stenting is associated with an acute increase in plasma myeloperoxidase in stable angina patients but not in patients with acute myocardial infarction. <i>European Journal of Internal Medicine</i> , 2009 , 20, 527-32	3.9	11
49	Captopril inhibits the oxidative modification of apolipoprotein B-100 caused by myeloperoxidase in a comparative in vitro assay of angiotensin converting enzyme inhibitors. <i>European Journal of Pharmacology</i> , 2006 , 537, 31-6	5.3	11
48	A physical description of the adhesion and aggregation of platelets. <i>Royal Society Open Science</i> , 2017 , 4, 170219	3.3	10
47	Myeloperoxidase oxidized LDL interferes with endothelial cell motility through miR-22 and heme oxygenase 1 induction: possible involvement in reendothelialization of vascular injuries. <i>Mediators of Inflammation</i> , 2014 , 2014, 134635	4.3	10
46	4-Bromo-2-(piperidin-1-yl)thiazol-5-yl-phenyl methanone (12b) inhibits Na ⁺ /K ⁺ -ATPase and Ras oncogene activity in cancer cells. <i>European Journal of Medicinal Chemistry</i> , 2013 , 63, 213-23	6.8	10
45	Antioxidant effects and bioavailability evaluation of propolis extract and its content of pure polyphenols. <i>Journal of Food Biochemistry</i> , 2018 , 42, e12434	3.3	9
44	Human peroxidase 1 promotes angiogenesis through ERK1/2, Akt, and FAK pathways. <i>Cardiovascular Research</i> , 2019 , 115, 463-475	9.9	9

43	Rational drug design applied to myeloperoxidase inhibition. <i>Free Radical Research</i> , 2015 , 49, 711-20	4	8
42	A patent review of myeloperoxidase inhibitors for treating chronic inflammatory syndromes (focus on cardiovascular diseases, 2013-2019). <i>Expert Opinion on Therapeutic Patents</i> , 2020 , 30, 595-608	6.8	8
41	Vasorelaxant and antihypertensive effects of methanolic extracts from <i>Hymenocardia acida</i> Tul. <i>Journal of Ethnopharmacology</i> , 2013 , 146, 623-31	5	8
40	Development and validation of a screening procedure for the assessment of inhibition using a recombinant enzyme. <i>Talanta</i> , 2008 , 75, 503-10	6.2	8
39	Identification of compounds with anti-proliferative activity from the wood of <i>Ficus elastica</i> Roxb. ex Hornem. aerial roots. <i>Phytotherapy</i> , 2016 , 112, 65-73	3.2	8
38	Characterization of chemical features of potent myeloperoxidase inhibitors. <i>Future Medicinal Chemistry</i> , 2016 , 8, 1163-77	4.1	7
37	Antimicrobial effects of six Algerian propolis extracts. <i>International Journal of Food Science and Technology</i> , 2016 , 51, 2613-2620	3.8	7
36	Myeloperoxidase-dependent LDL modifications in bloodstream are mainly predicted by angiotensin II, adiponectin, and myeloperoxidase activity: a cross-sectional study in men. <i>Mediators of Inflammation</i> , 2013 , 2013, 750742	4.3	7
35	Validation of a sensitive LC/MSMS method for chloronucleoside analysis in biological matrixes and its applications. <i>Talanta</i> , 2016 , 154, 322-8	6.2	7
34	The soluble curcumin derivative NDS27 inhibits superoxide anion production by neutrophils and acts as substrate and reversible inhibitor of myeloperoxidase. <i>Chemico-Biological Interactions</i> , 2019 , 297, 34-43	5	7
33	Tannins and Tannin-Related Derivatives Enhance the (Pseudo-)Halogenating Activity of Lactoperoxidase. <i>Journal of Natural Products</i> , 2017 , 80, 1328-1338	4.9	6
32	Type 2 17 β -hydroxysteroid dehydrogenase as a novel target for the treatment of osteoporosis. <i>Future Medicinal Chemistry</i> , 2015 , 7, 1431-56	4.1	6
31	Methylprednisolone-Induced Lymphocytosis in Patients with Immune-Mediated Inflammatory Disorders. <i>American Journal of Medicine</i> , 2016 , 129, 746-752.e3	2.4	6
30	Efficient one-pot methodology for the synthesis of novel tetrahydro-carboline, tetrahydroisoquinoline and tetrahydrothienopyridine derivatives. <i>Tetrahedron Letters</i> , 2013 , 54, 6087-6089	2	6
29	Optimization of apolipoprotein-B-100 sequence coverage by liquid chromatography-tandem mass spectrometry for the future study of its posttranslational modifications. <i>Analytical Biochemistry</i> , 2011 , 411, 129-38	3.1	6
28	A new device to mimic intermittent hypoxia in mice. <i>PLoS ONE</i> , 2013 , 8, e59973	3.7	6
27	Myeloperoxidase-Oxidized LDLs Enhance an Anti-Inflammatory M2 and Antioxidant Phenotype in Murine Macrophages. <i>Mediators of Inflammation</i> , 2016 , 2016, 8249476	4.3	6
26	The presence of modified nucleosides in extracellular fluids leads to the specific incorporation of 5-chlorocytidine into RNA and modulates the transcription and translation. <i>Molecular and Cellular Biochemistry</i> , 2017 , 429, 59-71	4.2	5

25	Relationship between oxidative stress and erectile function. <i>Free Radical Research</i> , 2017 , 51, 924-931	4	5
24	Assessment of oxidative stress in tumors and histologically normal mucosa from patients with head and neck squamous cell carcinoma: a preliminary study. <i>European Journal of Cancer Prevention</i> , 2013 , 22, 558-60	2	5
23	Monocyte-platelet complexes on CD14/CD16 monocyte subsets: relationship with ApoA-I levels. A preliminary study. <i>Cardiovascular Pathology</i> , 2008 , 17, 285-8	3.8	5
22	Synthesis and photophysical studies of a multivalent photoreactive Ru-calix[4]arene complex bearing RGD-containing cyclopentapeptides. <i>Beilstein Journal of Organic Chemistry</i> , 2018 , 14, 1758-1768 ²⁻⁵		4
21	Effects of oxygen therapy on systemic inflammation and myeloperoxidase modified LDL in hypoxemic COPD patients. <i>Atherosclerosis</i> , 2009 , 205, 360-2	3.1	4
20	Probucol does not inhibit myeloperoxidase-dependent low-density lipoprotein oxidation as a potent protective effect in atherosclerosis. <i>Journal of Cardiovascular Pharmacology</i> , 2007 , 50, 350-1	3.1	4
19	A new potential anti-cancer beta-carboline derivative decreases the expression levels of key proteins involved in glioma aggressiveness: A proteomic investigation. <i>Drug Development Research</i> , 2020 , 81, 32-42	5.1	4
18	Untargeted metabolomics approach to discriminate mistletoe commercial products. <i>Scientific Reports</i> , 2021 , 11, 14205	4.9	4
17	Apolipoprotein L3 interferes with endothelial tube formation via regulation of ERK1/2, FAK and Akt signaling pathway. <i>Atherosclerosis</i> , 2018 , 279, 73-87	3.1	4
16	Selenocompounds and Sepsis: Redox Bypass Hypothesis for Early Diagnosis and Treatment: Part A-Early Acute Phase of Sepsis: An Extraordinary Redox Situation (Leukocyte/Endothelium Interaction Leading to Endothelial Damage). <i>Antioxidants and Redox Signaling</i> , 2021 , 35, 113-138	8.4	3
15	Coffee Leaves: An Upcoming Novel Food?. <i>Planta Medica</i> , 2021 , 87, 949-963	3.1	3
14	Selenocompounds and Sepsis: Redox Bypass Hypothesis: Part B- Selenocompounds in the Management of Early Sepsis.. <i>Antioxidants and Redox Signaling</i> , 2022 ,	8.4	3
13	The pleiotropic effect of statins in haemodialysis patients is not the consequence of an inhibition of LDL oxidation by myeloperoxidase. <i>Nephrology Dialysis Transplantation</i> , 2006 , 21, 2672-4	4.3	2
12	Anti-inflammatory, antioxidant effects, and bioaccessibility of Tigzirt propolis. <i>Journal of Food Biochemistry</i> , 2021 , 45, e13663	3.3	2
11	Data on myeloperoxidase-oxidized low-density lipoproteins stimulation of cells to induce release of resolvin-D1. <i>Data in Brief</i> , 2018 , 18, 1160-1171	1.2	1
10	Priming of mesenchymal stem cells with a hydrosoluble form of curcumin allows keeping their mesenchymal properties for cell-based therapy development. <i>Journal of Cellular and Molecular Medicine</i> , 2021 , 25, 4877-4881	5.6	1
9	Fc Glycosylation Characterization of Human Immunoglobulins G Using Immunocapture and LC-MS. <i>Methods in Molecular Biology</i> , 2021 , 2271, 57-71	1.4	1
8	Mass Spectrometry for the Monitoring of Lipoprotein Oxidations by Myeloperoxidase in Cardiovascular Diseases. <i>Molecules</i> , 2021 , 26,	4.8	1

7	M2 Monocyte Polarization in Dialyzed Patients Is Associated with Increased Levels of M-CSF and Myeloperoxidase-Associated Oxidative Stress: Preliminary Results. <i>Biomedicines</i> , 2021 , 9,	4.8	1
6	Unexpected Role of MPO-Oxidized LDLs in Atherosclerosis: In between Inflammation and Its Resolution. <i>Antioxidants</i> , 2022 , 11, 874	7.1	1
5	Effects of hyperoxia and cardiovascular risk factors on myocardial ischaemia-reperfusion injury: a randomized, sham-controlled parallel study. <i>Experimental Physiology</i> , 2021 , 106, 1249-1262	2.4	0
4	Acute effects of hypouricemia on endothelium, oxidative stress, and arterial stiffness: A randomized, double-blind, crossover study. <i>Physiological Reports</i> , 2021 , 9, e15018	2.6	0
3	Use and misuse of prescription stimulants by university students: a cross-sectional survey in the french-speaking community of Belgium, 2018.. <i>Archives of Public Health</i> , 2022 , 80, 54	2.6	0
2	Targeted and Untargeted Mass Spectrometry-Based Metabolomics for Chemical Profiling of Three Coffee Species. <i>Molecules</i> , 2022 , 27, 3152	4.8	0
1	Myeloperoxidase and Prostate volume: A preliminary study. <i>Progres En Urologie</i> , 2018 , 28, 482-487	0.9	