

Steven P Giesege

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,878
citations

279798

23
h-index

265206

42
g-index

64
all docs

64
docs citations

64
times ranked

1664
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive species and their accumulation on radical-damaged proteins. Trends in Biochemical Sciences, 1993, 18, 437-441.	7.5	222
2	Protein-bound 3,4-dihydroxyphenylalanine is a major reductant formed during hydroxyl radical damage to proteins. Biochemistry, 1993, 32, 4780-4786.	2.5	188
3	Low density lipoprotein is saturable by pro-oxidant copper. FEBS Letters, 1994, 343, 188-194.	2.8	183
4	Peroxidation of proteins before lipids in U937 cells exposed to peroxy radicals. Biochemical Journal, 2000, 350, 215-218.	3.7	94
5	Neopterin, Inflammation, and Oxidative Stress: What Could We Be Missing?. Antioxidants, 2018, 7, 80.	5.1	61
6	Positional demands of professional rugby. European Journal of Sport Science, 2015, 15, 480-487.	2.7	57
7	7,8 Dihydroneopterin Inhibits Low Density Lipoprotein Oxidation in Vitro. Evidence That This Macrophage Secreted Pteridine is an Anti-Oxidant. Free Radical Research, 1995, 23, 123-136.	3.3	55
8	Changes in acute biochemical markers of inflammatory and structural stress in rugby union. Journal of Sports Sciences, 2015, 33, 882-891.	2.0	49
9	Potential to inhibit growth of atherosclerotic plaque development through modulation of macrophage neopterin/7,8-dihydroneopterin synthesis. British Journal of Pharmacology, 2008, 153, 627-635.	5.4	44
10	The physiological response to cold-water immersion following a mixed martial arts training session. Applied Physiology, Nutrition and Metabolism, 2017, 42, 529-536.	1.9	44
11	HOCl causes necrotic cell death in human monocyte derived macrophages through calcium dependent calpain activation. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 420-429.	4.1	42
12	Protein Hydroperoxides are a Major Product of Low Density Lipoprotein Oxidation During Copper, Peroxyl Radical and Macrophage-mediated Oxidation. Free Radical Research, 2003, 37, 983-991.	3.3	41
13	Peroxidation of proteins before lipids in U937 cells exposed to peroxy radicals. Biochemical Journal, 2000, 350, 215.	3.7	37
14	Protection of U937 cells from free radical damage by the macrophage synthesized antioxidant 7,8-dihydroneopterin. Free Radical Research, 2001, 35, 311-318.	3.3	34
15	Protection of erythrocytes by the macrophage synthesized antioxidant 7,8 dihydroneopterin. Free Radical Research, 2001, 34, 123-136.	3.3	33
16	OxLDL induced cell death is inhibited by the macrophage synthesised pterin, 7,8-dihydroneopterin, in U937 cells but not THP-1 cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2005, 1745, 361-369.	4.1	32
17	Dissociation of neopterin and 7,8-dihydroneopterin from plasma components before HPLC analysis. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 863, 167-171.	2.3	32
18	Protein and thiol oxidation in cells exposed to peroxy radicals is inhibited by the macrophage synthesised pterin 7,8-dihydroneopterin. Biochimica Et Biophysica Acta - Molecular Cell Research, 2002, 1591, 139-145.	4.1	30

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19	Macrophage antioxidant protection within atherosclerotic plaques. <i>Frontiers in Bioscience - Landmark</i> , 2009, Volume, 1230.	3.0	30
20	Measurement of changes in urinary neopterin and total neopterin in body builders using SCX HPLC. <i>Pteridines</i> , 2014, 25, 53-63.	0.5	28
21	Impact of exercise-induced muscle damage and urinary pterins in professional rugby: 7,8-dihydroneopterin oxidation by myoglobin. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2016, 26, 329-337.	2.9	28
22	The effect of 1 week of repeated ischaemic leg preconditioning on simulated Keirin cycling performance: a randomised trial. <i>BMJ Open Sport and Exercise Medicine</i> , 2017, 3, e000229.	2.9	28
23	Carotid Artery Plaque Calcifications: Lessons From Histopathology to Diagnostic Imaging. <i>Stroke</i> , 2022, 53, 290-297.	2.0	26
24	Oxidant Production, oxLDL Uptake, and CD36 Levels in Human Monocyte-Derived Macrophages Are Downregulated by the Macrophage-Generated Antioxidant 7,8-Dihydroneopterin. <i>Antioxidants and Redox Signaling</i> , 2010, 13, 1525-1534.	5.4	24
25	Inflammatory sites as a source of plasma neopterin: Measurement of high levels of neopterin and markers of oxidative stress in pus drained from human abscesses. <i>Clinical Biochemistry</i> , 2008, 41, 1078-1083.	1.9	23
26	Lipid oxidation predominates over protein hydroperoxide formation in human monocyte-derived macrophages exposed to aqueous peroxy radicals. <i>Free Radical Research</i> , 2007, 41, 839-848.	3.3	21
27	Inhibition of protein hydroperoxide formation by protein thiols. <i>Redox Report</i> , 2003, 8, 81-86.	4.5	20
28	Intracellular glutathione protects human monocyte-derived macrophages from hypochlorite damage. <i>Life Sciences</i> , 2012, 90, 682-688.	4.3	20
29	Repetitive cryotherapy attenuates the <i>in vitro</i> and <i>in vivo</i> mononuclear cell activation response. <i>Experimental Physiology</i> , 2016, 101, 851-865.	2.0	20
30	Oxidized LDL triggers phosphatidylserine exposure in human monocyte cell lines by both caspase-dependent and -independent mechanisms. <i>FEBS Letters</i> , 2004, 578, 169-174.	2.8	19
31	Urinary myoglobin quantification by high-performance liquid chromatography: An alternative measurement for exercise-induced muscle damage. <i>Analytical Biochemistry</i> , 2015, 491, 37-42.	2.4	19
32	Inhibition of THP-1 cell-mediated low-density lipoprotein oxidation by the macrophage-synthesised pterin, 7,8-dihydroneopterin. <i>Redox Report</i> , 2003, 8, 113-115.	4.5	18
33	Induced macrophage activation in live excised atherosclerotic plaque. <i>Immunobiology</i> , 2018, 223, 526-535.	1.9	18
34	Macrophage mediated protein hydroperoxide formation and lipid oxidation in low density lipoprotein are inhibited by the inflammation marker 7,8-dihydroneopterin. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 1095-1101.	4.1	16
35	Effects of Rested Harvesting on Muscle Metabolite Concentrations and $\delta^{15}N$ Values in Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) Fillets during Storage at 15 °C. <i>Journal of Food Science</i> , 2010, 75, C459-64.	3.1	16
36	Effect of varied recovery interventions on markers of psychophysiological stress in professional rugby union. <i>European Journal of Sport Science</i> , 2015, 15, 543-549.	2.7	16

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37	Serum Protein-Bound 3,4-Dihydroxyphenylalanine and Related Products of Protein Oxidation and Chronic Hemodialysis. <i>Renal Failure</i> , 2003, 25, 997-1009.	2.1	15
38	Aqueous peroxy radical exposure to THP-1 cells causes glutathione loss followed by protein oxidation and cell death without increased caspase-3 activity. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2007, 1773, 945-953.	4.1	14
39	7 α -Ketocholesterol is Not Cytotoxic to U937 Cells When Incorporated into Acetylated Low Density Lipoprotein. <i>Lipids</i> , 2012, 47, 239-247.	1.7	14
40	Effect of 7,8-dihydroneopterin mediated CD36 down regulation and oxidant scavenging on oxidised low-density lipoprotein induced cell death in human macrophages. <i>International Journal of Biochemistry and Cell Biology</i> , 2017, 87, 27-33.	2.8	14
41	Oxidised low density lipoprotein causes human macrophage cell death through oxidant generation and inhibition of key catabolic enzymes. <i>International Journal of Biochemistry and Cell Biology</i> , 2015, 67, 34-42.	2.8	13
42	The physiological and mononuclear cell activation response to cryotherapy following a mixed martial arts contest: a pilot study. <i>Pteridines</i> , 2015, 26, 143-151.	0.5	12
43	Plasma levels of soluble VEGF receptor isoforms, circulating pterins and VEGF system SNPs as prognostic biomarkers in patients with acute coronary syndromes. <i>BMC Cardiovascular Disorders</i> , 2018, 18, 169.	1.7	12
44	Neopterin formation through radical scavenging of superoxide by the macrophage synthesised antioxidant 7,8-dihydroneopterin. <i>Free Radical Biology and Medicine</i> , 2020, 152, 142-151.	2.9	11
45	Neopterin and 7,8-dihydroneopterin are generated within atherosclerotic plaques. <i>Pteridines</i> , 2015, 26, 93-103.	0.5	10
46	Pterins as diagnostic markers of exercise-induced stress: a systematic review. <i>Journal of Science and Medicine in Sport</i> , 2020, 23, 53-62.	1.3	10
47	Abnormal Development in Artemia: Defective emergence of the prenauplius with bicarbonate deficiency. <i>The Journal of Experimental Zoology</i> , 1987, 243, 225-232.	1.4	9
48	First human imaging with MARS photon-counting CT. , 2018, , .		9
49	Simultaneous analysis of neopterin, kynurenine and tryptophan by amine-HPLC shows minor oxidative stress from short-term exhaustion exercise. <i>Pteridines</i> , 2019, 30, 21-32.	0.5	8
50	Knee replacement surgery significantly elevates the urinary inflammatory biomarkers neopterin and 7,8-dihydroneopterin. <i>Clinical Biochemistry</i> , 2019, 63, 39-45.	1.9	8
51	Immunity, inflammatory and psychophysiological stress response during a competition of professional rugby union. <i>Pteridines</i> , 2015, 26, 153-160.	0.5	6
52	Nucleoside transporters are critical to the uptake and antioxidant activity of 7,8-dihydroneopterin in monocytic cells. <i>Free Radical Research</i> , 2020, 54, 341-350.	3.3	6
53	No relationship exists between urinary NT-proBNP and GPS technology in professional rugby union. <i>Journal of Science and Medicine in Sport</i> , 2017, 20, 790-794.	1.3	5
54	Pterins as Diagnostic Markers of Mechanical and Impact-Induced Trauma: A Systematic Review. <i>Journal of Clinical Medicine</i> , 2019, 8, 1383.	2.4	5

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55	Foam cell formation but not oxLDL cytotoxicity is inhibited by CD36 down regulation by the macrophage antioxidant 7,8-dihydroneopterin. International Journal of Biochemistry and Cell Biology, 2021, 133, 105918.	2.8	5
56	7,8 dihydroneopterin can protect cells from free radical mediated damage. Free Radical Biology and Medicine, 1998, 25, S32.	2.9	4
57	Adsorption of chemically synthesized mussel adhesive peptide sequences containing DOPA on stainless steel. Journal of Peptide Science, 2015, 21, 630-635.	1.4	4
58	Urinary neopterin and total neopterin measurements allow monitoring of oxidative stress and inflammation levels of knee and hip arthroplasty patients. PLoS ONE, 2021, 16, e0256072.	2.5	4
59	Oxidative stress and immune cell activation quantification in sepsis and non-sepsis critical care patients by neopterin/7,8-dihydroneopterin analysis. Pteridines, 2020, 31, 68-82.	0.5	4
60	MARS pre-clinical imaging: the benefits of small pixels and good energy data. , 2019, , .		3
61	Redistribution of metal ions to control low density lipoprotein oxidation in Ham's F10 medium. Free Radical Research, 2007, 41, 1109-1115.	3.3	2
62	Molecular Imaging of Pulmonary Tuberculosis in an Ex-Vivo Mouse Model Using Spectral Photon-Counting Computed Tomography and Micro-CT. IEEE Access, 2021, 9, 67201-67208.	4.2	2
63	Interactive Image Segmentation of MARS Datasets Using Bag of Features. IEEE Transactions on Radiation and Plasma Medical Sciences, 2021, 5, 559-567.	3.7	0