

Neven Zarkovic

List of Publications by Year in descending order

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204
papers

9,470
citations

38720

50
h-index

48277

88
g-index

208
all docs

208
docs citations

208
times ranked

13614
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical Relevance of Biomarkers of Oxidative Stress. Antioxidants and Redox Signaling, 2015, 23, 1144-1170.	2.5	604
2	Advanced glycoxidation and lipoxidation end products (AGEs and ALEs): an overview of their mechanisms of formation. Free Radical Research, 2013, 47, 3-27.	1.5	602
3	Pathological aspects of lipid peroxidation. Free Radical Research, 2010, 44, 1125-1171.	1.5	344
4	4-Hydroxynonenal as a bioactive marker of pathophysiological processes. Molecular Aspects of Medicine, 2003, 24, 281-291.	2.7	337
5	Dihydropyridine Derivatives as Cell Growth Modulators In Vitro. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-15.	1.9	277
6	Redox Control of Microglial Function: Molecular Mechanisms and Functional Significance. Antioxidants and Redox Signaling, 2014, 21, 1766-1801.	2.5	261
7	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). Redox Biology, 2017, 13, 94-162.	3.9	242
8	Comparative Study on the Antioxidant and Biological Activities of Carvacrol, Thymol, and Eugenol Derivatives. Journal of Agricultural and Food Chemistry, 2008, 56, 3989-3996.	2.4	233
9	Natural and synthetic antioxidants: An updated overview. Free Radical Research, 2010, 44, 1216-1262.	1.5	229
10	Short Overview of ROS as Cell Function Regulators and Their Implications in Therapy Concepts. Cells, 2019, 8, 793.	1.8	192
11	Biocompatibility of implantable materials: An oxidative stress viewpoint. Biomaterials, 2016, 109, 55-68.	5.7	158
12	Advances in methods for the determination of biologically relevant lipid peroxidation products. Free Radical Research, 2010, 44, 1172-1202.	1.5	127
13	Pathophysiological relevance of aldehydic protein modifications. Journal of Proteomics, 2013, 92, 239-247.	1.2	115
14	Controversy about pharmacological modulation of Nrf2 for cancer therapy. Redox Biology, 2017, 12, 727-732.	3.9	114
15	Dietary polyunsaturated fatty acids and heme iron induce oxidative stress biomarkers and a cancer promoting environment in the colon of rats. Free Radical Biology and Medicine, 2015, 83, 192-200.	1.3	102
16	Short overview on metabolomics approach to study pathophysiology of oxidative stress in cancer. Redox Biology, 2018, 14, 47-58.	3.9	102
17	Measurement of HNE-protein adducts in human plasma and serum by ELISA—Comparison of two primary antibodies. Redox Biology, 2013, 1, 226-233.	3.9	101
18	Reactive aldehydes — second messengers of free radicals in diabetes mellitus. Free Radical Research, 2013, 47, 39-48.	1.5	96

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19	Altered iron metabolism, transferrin receptor 1 and ferritin in patients with colon cancer. <i>Cancer Letters</i> , 2006, 238, 188-196.	3.2	95
20	Mitochondrial control of apoptosis through modulation of cardiolipin oxidation in hepatocellular carcinoma: A novel link between oxidative stress and cancer. <i>Free Radical Biology and Medicine</i> , 2017, 102, 67-76.	1.3	93
21	Stimulation of HeLa cell growth by physiological concentrations of 4-hydroxynonenal. <i>Cell Biochemistry and Function</i> , 1993, 11, 279-286.	1.4	91
22	The pathophysiology of otosclerosis: Review of current research. <i>Hearing Research</i> , 2015, 330, 51-56.	0.9	82
23	Oxidative Stress and Antioxidants in Carcinogenesis and Integrative Therapy of Cancer. <i>Current Pharmaceutical Design</i> , 2014, 20, 6529-6542.	0.9	81
24	The NRF2, Thioredoxin, and Glutathione System in Tumorigenesis and Anticancer Therapies. <i>Antioxidants</i> , 2020, 9, 1151.	2.2	74
25	Overview on major lipid peroxidation bioactive factor 4-hydroxynonenal as pluripotent growth-regulating factor. <i>Free Radical Research</i> , 2015, 49, 850-860.	1.5	72
26	Biomarkers of oxidative and nitro-oxidative stress: conventional and novel approaches. <i>British Journal of Pharmacology</i> , 2017, 174, 1771-1783.	2.7	71
27	Associated changes of lipid peroxidation and transforming growth factor beta1 levels in human colon cancer during tumour progression. <i>Gut</i> , 2002, 50, 361-367.	6.1	70
28	Short overview on metabolomic approach and redox changes in psychiatric disorders. <i>Redox Biology</i> , 2018, 14, 178-186.	3.9	70
29	The relevance of pathophysiological alterations in redox signaling of 4-hydroxynonenal for pharmacological therapies of major stress-associated diseases. <i>Free Radical Biology and Medicine</i> , 2020, 157, 128-153.	1.3	70
30	4-Hydroxynonenal as a second messenger of free radicals and growth modifying factor. <i>Life Sciences</i> , 1999, 65, 1901-1904.	2.0	68
31	Oxidative stress and ferritin expression in the skin of patients with rosacea. <i>Journal of the American Academy of Dermatology</i> , 2009, 60, 270-276.	0.6	68
32	The onset of lipid peroxidation in rheumatoid arthritis: consequences and monitoring. <i>Free Radical Research</i> , 2016, 50, 304-313.	1.5	66
33	Mitochondrial alterations in aging rat brain: effective role of (âˆ—)âˆ—epigallo catechin gallate. <i>International Journal of Developmental Neuroscience</i> , 2009, 27, 223-231.	0.7	65
34	Roles and Functions of ROS and RNS in Cellular Physiology and Pathology. <i>Cells</i> , 2020, 9, 767.	1.8	64
35	Revealing mechanisms of selective, concentration-dependent potentials of 4-hydroxy-2-nonenal to induce apoptosis in cancer cells through inactivation of membrane-associated catalase. <i>Free Radical Biology and Medicine</i> , 2015, 81, 128-144.	1.3	62
36	1,4-Dihydropyridine Derivatives: Dihyronicotinamide Analoguesâˆ—Model Compounds Targeting Oxidative Stress. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-35.	1.9	62

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37	Contribution of the HNE-immunohistochemistry to modern pathological concepts of major human diseases. <i>Free Radical Biology and Medicine</i> , 2017, 111, 110-126.	1.3	62
38	Assays for the Measurement of Lipid Peroxidation. <i>Methods in Molecular Biology</i> , 2013, 965, 283-296.	0.4	61
39	Pathophysiological Alterations of Redox Signaling and Endocannabinoid System in Granulocytes and Plasma of Psoriatic Patients. <i>Cells</i> , 2018, 7, 159.	1.8	60
40	Anticancer and antioxidative effects of micronized zeolite clinoptilolite. <i>Anticancer Research</i> , 2003, 23, 1589-95.	0.5	59
41	The mitochondrial-targeted antioxidant MitoQ ameliorates metabolic syndrome features in obesogenic diet-fed rats better than Apocynin or Allopurinol. <i>Free Radical Research</i> , 2014, 48, 1232-1246.	1.5	58
42	Glucose as a Major Antioxidant: When, What for and Why It Fails?. <i>Antioxidants</i> , 2020, 9, 140.	2.2	58
43	Tissue distribution of lipid peroxidation product acrolein in human colon carcinogenesis. <i>Free Radical Research</i> , 2006, 40, 543-552.	1.5	57
44	An inter-laboratory validation of methods of lipid peroxidation measurement in UVA-treated human plasma samples. <i>Free Radical Research</i> , 2010, 44, 1203-1215.	1.5	56
45	Pathophysiology of neutrophil-mediated extracellular redox reactions. <i>Frontiers in Bioscience - Landmark</i> , 2016, 21, 839-855.	3.0	56
46	Selected Attributes of Polyphenols in Targeting Oxidative Stress in Cancer. <i>Current Topics in Medicinal Chemistry</i> , 2015, 15, 496-509.	1.0	56
47	c-Jun N-terminal kinase upregulation as a key event in the proapoptotic interaction between transforming growth factor- β 1 and 4-hydroxynonenal in colon mucosa. <i>Free Radical Biology and Medicine</i> , 2006, 41, 443-454.	1.3	53
48	Altered Lipid Metabolism in Blood Mononuclear Cells of Psoriatic Patients Indicates Differential Changes in Psoriasis Vulgaris and Psoriatic Arthritis. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4249.	1.8	53
49	Oxidative stress in small-for-gestational age (SGA) term newborns and their mothers. <i>Free Radical Research</i> , 2009, 43, 376-384.	1.5	52
50	An assay for the rate of removal of extracellular hydrogen peroxide by cells. <i>Redox Biology</i> , 2013, 1, 210-217.	3.9	52
51	Enzyme-linked immunosorbent assay for 4-hydroxynonenal-histidine conjugates. <i>Free Radical Research</i> , 2006, 40, 809-820.	1.5	51
52	Effects of Cu-doped 45S5 bioactive glass on the lipid peroxidation-associated growth of human osteoblast-like cells <i>in vitro</i> . <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3556-3561.	2.1	51
53	4-hydroxynonenal causes impairment of human subcutaneous adipogenesis and induction of adipocyte insulin resistance. <i>Free Radical Biology and Medicine</i> , 2017, 104, 129-137.	1.3	51
54	Oxidative Stress and Lipid Mediators Modulate Immune Cell Functions in Autoimmune Diseases. <i>International Journal of Molecular Sciences</i> , 2021, 22, 723.	1.8	51

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55	4-Hydroxynonenal Modifies the Effects of Serum Growth Factors on the Expression of the c-fos Proto-Oncogene and the Proliferation of HeLa Carcinoma Cells. <i>Free Radical Biology and Medicine</i> , 1998, 25, 42-49.	1.3	50
56	A fish oil-rich diet reduces vascular oxidative stress in apoE ^{-/-} mice. <i>Free Radical Research</i> , 2010, 44, 821-829.	1.5	50
57	Cancer growth regulation by 4-hydroxynonenal. <i>Free Radical Biology and Medicine</i> , 2017, 111, 226-234.	1.3	50
58	An Overview on Anticancer Activities of the <i>Viscum Album</i> Extract Isorel [®] . <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2001, 16, 55-62.	0.7	49
59	The influence of 4-hydroxynonenal on proliferation, differentiation and apoptosis of human osteosarcoma cells. <i>BioFactors</i> , 2005, 24, 141-148.	2.6	49
60	Oxidative burst of neutrophils against melanoma B16-F10. <i>Cancer Letters</i> , 2007, 246, 100-108.	3.2	48
61	Adaptation to oxidative stress induced by polyunsaturated fatty acids in yeast. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2008, 1781, 283-287.	1.2	48
62	Post-traumatic hormonal disturbances: Prolactin as a link between head injury and enhanced osteogenesis. <i>Journal of Endocrinological Investigation</i> , 1998, 21, 78-86.	1.8	47
63	Corticosteroid-impairment of healing and gastric pentadecapeptide BPC-157 creams in burned mice. <i>Burns</i> , 2003, 29, 323-334.	1.1	47
64	Lipid mediators involved in the oxidative stress and antioxidant defence of human lung cancer cells. <i>Redox Biology</i> , 2016, 9, 210-219.	3.9	47
65	Oxidative stress and regeneration. <i>Free Radical Biology and Medicine</i> , 2022, 181, 154-165.	1.3	47
66	Gastric pentadecapeptide BPC 157 accelerates healing of transected rat Achilles tendon and in vitro stimulates tendocytes growth. <i>Journal of Orthopaedic Research</i> , 2003, 21, 976-983.	1.2	46
67	Elastin aging and lipid oxidation products in human aorta. <i>Redox Biology</i> , 2015, 4, 109-117.	3.9	46
68	Basic fibroblast growth factor (BFGF) immunoreactivity as a possible link between head injury and impaired bone fracture healing. <i>Bone and Mineral</i> , 1994, 27, 183-192.	2.0	44
69	Differential sensitivity to 4-hydroxynonenal for normal and malignant mesenchymal cells. <i>Redox Report</i> , 2007, 12, 50-54.	1.4	44
70	Plasma Interleukin-8 as a Potential Predictor of Mortality in Adult Patients with Severe Traumatic Brain Injury. <i>Tohoku Journal of Experimental Medicine</i> , 2007, 211, 387-393.	0.5	44
71	Foam cell-derived 4-hydroxynonenal induces endothelial cell senescence in a TXNIP-dependent manner. <i>Journal of Cellular and Molecular Medicine</i> , 2015, 19, 1887-1899.	1.6	42
72	Combined metformin and insulin treatment reverses metabolically impaired omental adipogenesis and accumulation of 4-hydroxynonenal in obese diabetic patients. <i>Redox Biology</i> , 2017, 12, 483-490.	3.9	42

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73	Saccharomyces cerevisiae strain expressing a plant fatty acid desaturase produces polyunsaturated fatty acids and is susceptible to oxidative stress induced by lipid peroxidation. Free Radical Biology and Medicine, 2006, 40, 897-906.	1.3	39
74	Even stressed cells are individuals: second messengers of free radicals in pathophysiology of cancer. Croatian Medical Journal, 2012, 53, 304-309.	0.2	39
75	Proatrial Natriuretic Peptide (1â€“98), but Not Cystatin C, Is Predictive for Occurrence of Acute Renal Insufficiency in Critically Ill Septic Patients. Nephron Clinical Practice, 2004, 97, c103-c107.	2.3	38
76	Trace elements and oxidative stress in hypertensive disorders of pregnancy. Archives of Gynecology and Obstetrics, 2013, 287, 19-24.	0.8	38
77	Metabolomic and glycomic findings in posttraumatic stress disorder. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2019, 88, 181-193.	2.5	38
78	Treatment of the budding yeast Saccharomyces cerevisiae with the lipid peroxidation product 4-HNE provokes a temporary cell cycle arrest in G1 phase. Free Radical Biology and Medicine, 1998, 25, 682-687.	1.3	37
79	The involvement of granulocytes in spontaneous regression of Walker 256 carcinoma. Cancer Letters, 2008, 260, 180-186.	3.2	35
80	HNE-protein adducts formation in different pre-carcinogenic stages of hepatitis in LEC rats. Free Radical Research, 2010, 44, 119-127.	1.5	35
81	Preliminary Findings on the Association of the Lipid Peroxidation Product 4-Hydroxynonenal with the Lethal Outcome of Aggressive COVID-19. Antioxidants, 2021, 10, 1341.	2.2	35
82	The Influence of Isorel on the Advanced Colorectal Cancer. Cancer Biotherapy and Radiopharmaceuticals, 2003, 18, 27-34.	0.7	34
83	Oxidative burst and anticancer activities of rat neutrophils. BioFactors, 2005, 24, 305-312.	2.6	34
84	Distribution of 4-Hydroxynonenal-Protein Conjugates as a Marker of Lipid Peroxidation and Parameter of Malignancy in Astrocytic and Ependymal Tumors of the Brain. Tumori, 2009, 95, 762-768.	0.6	33
85	Involvement of Metabolic Lipid Mediators in the Regulation of Apoptosis. Biomolecules, 2020, 10, 402.	1.8	33
86	The Value of Cell Proliferation and Angiogenesis in the Prognostic Assessment of Ovarian Granulosa cell Tumors. Tumori, 2001, 87, 47-53.	0.6	32
87	Oxidative Stress Markers After Laparoscopic and Open Cholecystectomy. Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A, 2005, 15, 347-352.	0.5	32
88	Endogenous 4-hydroxy-2-nonenal in microalga Chlorella kessleri acts as a bioactive indicator of pollution with common herbicides and growth regulating factor of hormesis. Aquatic Toxicology, 2011, 105, 552-558.	1.9	31
89	Antioxidant Activities of Alkyl Substituted Pyrazine Derivatives of Chalconesâ€”In Vitro and In Silico Study. Antioxidants, 2019, 8, 90.	2.2	31
90	Mutual dependence of growth modifying effects of 4-hydroxynonenal and fetal calf serum in vitro. Free Radical Biology and Medicine, 1994, 16, 877-884.	1.3	30

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91	Lipid peroxidation-derived 4-hydroxynonenal-modified proteins accumulate in human facial skin fibroblasts during ageing in vitro. <i>Biogerontology</i> , 2014, 15, 105-110.	2.0	30
92	Persistent Oxidative Stress after Myocardial Infarction Treated by Percutaneous Coronary Intervention. <i>Tohoku Journal of Experimental Medicine</i> , 2006, 210, 247-255.	0.5	29
93	Activation of aerobic metabolism by Amaranth oil improves heart rate variability both in athletes and patients with type 2 diabetes mellitus. <i>Archives of Physiology and Biochemistry</i> , 2012, 118, 47-57.	1.0	29
94	Lipid peroxidation in brain tumors. <i>Neurochemistry International</i> , 2021, 149, 105118.	1.9	29
95	Immunohistochemical appearance of HNE-protein conjugates in human astrocytomas. <i>BioFactors</i> , 2005, 24, 33-40.	2.6	28
96	Granulocytes as effective anticancer agent in experimental solid tumor models. <i>Immunobiology</i> , 2010, 215, 1015-1020.	0.8	26
97	The correlations of glycated hemoglobin and carbohydrate metabolism parameters with heart rate variability in apparently healthy sedentary young male subjects. <i>Redox Biology</i> , 2015, 5, 301-307.	3.9	26
98	Ergometry Induces Systemic Oxidative Stress in Healthy Human Subjects. <i>Tohoku Journal of Experimental Medicine</i> , 2010, 221, 43-48.	0.5	25
99	Induction of CMV-1 promoter by 4-hydroxy-2-nonenal in human embryonic kidney cells.. <i>Acta Biochimica Polonica</i> , 2010, 57, .	0.3	25
100	Molecular Regulations Induced by Acrolein in Neuroblastoma SK-N-SH Cells: Relevance to Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 21, 1197-1216.	1.2	24
101	Tick-borne encephalitis – lipid peroxidation and its consequences. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2016, 76, 1-9.	0.6	24
102	Investigating the use of curcumin-loaded electrospun filaments for soft tissue repair applications. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 3977-3991.	3.3	24
103	Beneficial Effects of Vitamins K and D3 on Redox Balance of Human Osteoblasts Cultured with Hydroxyapatite-Based Biomaterials. <i>Cells</i> , 2019, 8, 325.	1.8	24
104	Lipid peroxidation in the pathogenesis of neuroborreliosis. <i>Free Radical Biology and Medicine</i> , 2016, 96, 255-263.	1.3	23
105	Elevated neutrophil elastase and acrolein-protein adducts are associated with W256 regression. <i>Clinical and Experimental Immunology</i> , 2012, 170, 178-185.	1.1	22
106	Adsorption of Proteins and Cell Adhesion to Plasma Treated Polymer Substrates. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2014, 63, 685-691.	1.8	22
107	Perioperative application of the <i>Viscum album</i> extract Isorel in digestive tract cancer patients. <i>Anticancer Research</i> , 2005, 25, 4583-90.	0.5	22
108	Effect of semiconductor GaAs laser irradiation on pain perception in mice. <i>Lasers in Surgery and Medicine</i> , 1989, 9, 63-66.	1.1	21

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109	Specific thermographic changes during Walker 256 carcinoma development: Differential infrared imaging of tumour, inflammation and haematoma. <i>Cancer Detection and Prevention</i> , 2009, 32, 431-436.	2.1	21
110	Antioxidative 1,4-Dihydropyridine Derivatives Modulate Oxidative Stress and Growth of Human Osteoblast-Like Cells In Vitro. <i>Antioxidants</i> , 2018, 7, 123.	2.2	21
111	Utilizing Iron for Targeted Lipid Peroxidation as Anticancer Option of Integrative Biomedicine: A Short Review of Nanosystems Containing Iron. <i>Antioxidants</i> , 2020, 9, 191.	2.2	21
112	Differential influence of the lipid peroxidation product 4-hydroxynonenal on the growth of human lymphatic leukaemia cells and human periopherial blood lymphocytes. <i>Anticancer Research</i> , 2002, 22, 1689-97.	0.5	21
113	Comparison of the Effects of <i>Viscum album</i> Lectin ML-1 and Fresh Plant Extract (Isorel) on the Cell Growth <i>in vitro</i> and Tumorigenicity of Melanoma B16F10. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 1998, 13, 121-131.	0.7	20
114	Pro-atrial natriuretic peptide hormone from right atria is correlated with cardiac depression in septic patients. <i>Journal of Endocrinological Investigation</i> , 2001, 24, RC22-RC24.	1.8	20
115	The distribution of 4-hydroxynonenal-modified proteins in gastric mucosa of duodenal peptic ulcer patients. <i>Free Radical Research</i> , 2008, 42, 205-211.	1.5	20
116	Biocompatibility of oxygen-plasma-treated polystyrene substrates. <i>EPJ Applied Physics</i> , 2011, 56, 24024.	0.3	20
117	Inhibition of Melanoma B16-F10 Growth by Lipid Peroxidation Product 4-Hydroxynonenal. <i>Cancer Biotherapy</i> , 1995, 10, 153-156.	0.6	19
118	Inhibition of HeLa Cell Proliferation by 4-Hydroxynonenal is Associated with Enhanced Expression of the c-fos Oncogene. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 1997, 12, 131-136.	0.7	19
119	Amaranth oil reduces accumulation of 4-hydroxynonenal-histidine adducts in gastric mucosa and improves heart rate variability in duodenal peptic ulcer patients undergoing <i>Helicobacter pylori</i> eradication. <i>Free Radical Research</i> , 2018, 52, 135-149.	1.5	19
120	S-metolachlor promotes oxidative stress in green microalga <i>Parachlorella kessleri</i> - A potential environmental and health risk for higher organisms. <i>Science of the Total Environment</i> , 2018, 637-638, 41-49.	3.9	19
121	Nutritional Stress in Head and Neck Cancer Originating Cell Lines: The Sensitivity of the NRF2-NQO1 Axis. <i>Cells</i> , 2019, 8, 1001.	1.8	19
122	Post-traumatic dynamic change of carboxyterminal propeptide of type I procollagen, alkaline phosphatase and its isoenzymes as predictors for enhanced osteogenesis in patients with severe head injury. <i>Research in Experimental Medicine</i> , 1994, 194, 247-259.	0.7	18
123	Cell-Type-Specific Modulation of Hydrogen Peroxide Cytotoxicity and 4-Hydroxynonenal Binding to Human Cellular Proteins In Vitro by Antioxidant Aloe vera Extract. <i>Antioxidants</i> , 2018, 7, 125.	2.2	18
124	Lipid peroxidation product 4-hydroxynonenal as factor of oxidative homeostasis supporting bone regeneration with bioactive glasses.. <i>Acta Biochimica Polonica</i> , 2010, 57, .	0.3	18
125	Distribution of 4-hydroxynonenal-protein conjugates as a marker of lipid peroxidation and parameter of malignancy in astrocytic and ependymal tumors of the brain. <i>Tumori</i> , 2009, 95, 762-8.	0.6	18
126	Effects of bioreactive acrolein from automotive exhaust gases on human cells <i>in vitro</i> . <i>Environmental Toxicology</i> , 2012, 27, 644-652.	2.1	17

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127	Positron emission tomography-computed tomography and 4-hydroxynonenal-histidine immunohistochemistry reveal differential onset of lipid peroxidation in primary lung cancer and in pulmonary metastasis of remote malignancies. <i>Redox Biology</i> , 2017, 11, 600-605.	3.9	17
128	4-Hydroxynonenal in Redox Homeostasis of Gastrointestinal Mucosa: Implications for the Stomach in Health and Diseases. <i>Antioxidants</i> , 2018, 7, 118.	2.2	17
129	Lipid peroxidation product acrolein as a predictive biomarker of prostate carcinoma relapse after radical surgery. <i>Free Radical Research</i> , 2010, 44, 497-504.	1.5	16
130	Pyridine Nucleotides in Regulation of Cell Death and Survival by Redox and Non-Redox Reactions. <i>Critical Reviews in Eukaryotic Gene Expression</i> , 2014, 24, 287-309.	0.4	16
131	The effect of Amaranth oil on monolayers of artificial lipids and hepatocyte plasma membranes with adrenalin-induced stress. <i>Food Chemistry</i> , 2014, 147, 152-159.	4.2	16
132	CD36 expression in peripheral blood mononuclear cells reflects the onset of atherosclerosis. <i>BioFactors</i> , 2018, 44, 588-596.	2.6	16
133	Post-mortem Findings of Inflammatory Cells and the Association of 4-Hydroxynonenal with Systemic Vascular and Oxidative Stress in Lethal COVID-19. <i>Cells</i> , 2022, 11, 444.	1.8	16
134	The effects of angiotensin II and the oxidative stress mediator 4-hydroxynonenal on human osteoblast-like cell growth: possible relevance to otosclerosis. <i>Free Radical Biology and Medicine</i> , 2013, 57, 22-28.	1.3	15
135	Oxygen-rich coating promotes binding of proteins and endothelialization of polyethylene terephthalate polymers. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 2305-2314.	2.1	14
136	Antioxidants and Second Messengers of Free Radicals. <i>Antioxidants</i> , 2018, 7, 158.	2.2	14
137	Metabolomics in posttraumatic stress disorder: Untargeted metabolomic analysis of plasma samples from Croatian war veterans. <i>Free Radical Biology and Medicine</i> , 2021, 162, 636-641.	1.3	14
138	Growth suppression of human breast carcinoma stem cells by lipid peroxidation product 4-hydroxy-2-nonenal and hydroxyl radical-modified collagen.. <i>Acta Biochimica Polonica</i> , 2010, 57, .	0.3	14
139	Oxidative Stress and Cancer Heterogeneity Orchestrate NRF2 Roles Relevant for Therapy Response. <i>Molecules</i> , 2022, 27, 1468.	1.7	14
140	Cyp4a14 overexpression induced by hyperoxia in female CBA mice as a possible contributor of increased resistance to oxidative stress. <i>Free Radical Research</i> , 2010, 44, 181-190.	1.5	13
141	Quercetin supplementation: insight into the potentially harmful outcomes of neurodegenerative prevention. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2012, 385, 1185-1197.	1.4	13
142	Improved proliferation of human osteosarcoma cells on oxygen plasma treated polystyrene. <i>Vacuum</i> , 2013, 98, 116-121.	1.6	13
143	The Role of Acrolein and NADPH Oxidase in the Granulocyte-Mediated Growth-Inhibition of Tumor Cells. <i>Cells</i> , 2019, 8, 292.	1.8	13
144	Growth suppression of human breast carcinoma stem cells by lipid peroxidation product 4-hydroxy-2-nonenal and hydroxyl radical-modified collagen. <i>Acta Biochimica Polonica</i> , 2010, 57, 165-71.	0.3	13

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145	Antitumor effect of Croatian propolis as a consequence of diverse sex-related dihydropyrimidine dehydrogenase (DPD) protein expression. <i>Phytomedicine</i> , 2011, 18, 852-858.	2.3	12
146	Distribution and Time-Course of 4-Hydroxynonenal, Heat Shock Protein 110/105 Family Members and Cyclooxygenase-2 Expression in the Hippocampus of Rat During Trimethyltin-Induced Neurodegeneration. <i>Neurochemical Research</i> , 2011, 36, 1490-1500.	1.6	12
147	Stobadine attenuates impairment of an intestinal barrier model caused by 4-hydroxynonenal. <i>Toxicology in Vitro</i> , 2013, 27, 426-432.	1.1	12
148	Transcriptional and antioxidative responses to endogenous polyunsaturated fatty acid accumulation in yeast. <i>Molecular and Cellular Biochemistry</i> , 2015, 399, 27-37.	1.4	12
149	Reduced Proteasome Activity and Enhanced Autophagy in Blood Cells of Psoriatic Patients. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7608.	1.8	12
150	The Appearance of 4-Hydroxy-2-Nonenal (HNE) in Squamous Cell Carcinoma of the Oropharynx. <i>Molecules</i> , 2020, 25, 868.	1.7	12
151	Reversal of multidrug resistance in murine lymphoma cells by amphiphilic dihydropyridine antioxidant derivative. <i>Anticancer Research</i> , 2010, 30, 4063-9.	0.5	12
152	Involvement of Lipid Peroxidation, Oncogene Expression and Induction of Apoptosis in the Antitumorous Activity of Ferric-Sorbitol-Citrate. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2000, 15, 285-293.	0.7	11
153	Bioactive 1,4-dihydroisonicotinic acid derivatives prevent oxidative damage of liver cells. <i>European Journal of Pharmacology</i> , 2006, 537, 12-19.	1.7	11
154	Effect of Angiotensin II on Inflammation Pathways in Human Primary Bone Cell Cultures in Otosclerosis. <i>Audiology and Neuro-Otology</i> , 2012, 17, 169-178.	0.6	11
155	Interval hypoxic training in complex treatment of Helicobacter pylori-associated peptic ulcer disease.. <i>Acta Biochimica Polonica</i> , 2010, 57, .	0.3	11
156	Induction of CMV-1 promoter by 4-hydroxy-2-nonenal in human embryonic kidney cells. <i>Acta Biochimica Polonica</i> , 2010, 57, 179-83.	0.3	11
157	Comparison of the Values of Basic Fibroblast Growth Factor Determined by an Immunoassay in the Sera of Patients with Traumatic Brain Injury and Enhanced Osteogenesis and the Effects of the Same Sera on the Fibroblast Growth In Vitro. <i>Clinical Chemistry and Laboratory Medicine</i> , 1995, 33, 693-8.	1.4	10
158	The dynamics of soluble Fas/APO 1 apoptotic biochemical marker in acute ischemic stroke patients. <i>Advances in Medical Sciences</i> , 2013, 58, 298-303.	0.9	10
159	Editorial Introduction to the Special Issue on 4-Hydroxynonenal and Related Lipid Oxidation Products. <i>Free Radical Biology and Medicine</i> , 2017, 111, 2-5.	1.3	10
160	Association of Lipid Peroxidation Product 4-Hydroxynonenal with Post-Traumatic Stress Disorder. <i>Biomolecules</i> , 2021, 11, 1365.	1.8	10
161	Persistent accumulation of 4-hydroxynonenal-protein adducts in gastric mucosa after Helicobacter pylori eradication. <i>Collegium Antropologicum</i> , 2009, 33, 815-21.	0.1	10
162	Biomarkers of nitro-oxidation and oxidative stress. <i>Current Opinion in Toxicology</i> , 2018, 7, 73-80.	2.6	9

#	ARTICLE	IF	CITATIONS
163	The Onset of Systemic Oxidative Stress Associated with the Accumulation of Lipid Peroxidation Product Acrolein in the Skin of Patients with Small-Vessel Vasculitis. <i>Molecules</i> , 2021, 26, 2344.	1.7	9
164	Short Overview of Some Assays for the Measurement of Antioxidant Activity of Natural Products and Their Relevance in Dermatology. <i>Molecules</i> , 2021, 26, 5301.	1.7	9
165	Disease-Dependent Antiapoptotic Effects of Cannabidiol for Keratinocytes Observed upon UV Irradiation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9956.	1.8	9
166	Impaired Proliferation and DNA Synthesis of a Human Tumor Cell Line (HELA) Caused by Short Treatment with the Antianemic Drug Jectofer (Ferric-Sorbitol-Citrate) and the Lipid Peroxidation Product 4-Hydroxynonenal. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 1998, 13, 395-402.	0.7	8
167	Lipid peroxidation research in Europe and the COST B35 action "Lipid Peroxidation Associated Disorders". <i>Free Radical Research</i> , 2010, 44, 1095-1097.	1.5	8
168	Sensitivity of Osteosarcoma Cells to Concentration-Dependent Bioactivities of Lipid Peroxidation Product 4-Hydroxynonenal Depend on Their Level of Differentiation. <i>Cells</i> , 2021, 10, 269.	1.8	8
169	Porcine splenic peptides (Polyerga) decrease the number of experimental lung metastases in mice. <i>Clinical and Experimental Metastasis</i> , 1996, 14, 55-60.	1.7	7
170	Lipid peroxidation product 4-hydroxynonenal as factor of oxidative homeostasis supporting bone regeneration with bioactive glasses. <i>Acta Biochimica Polonica</i> , 2010, 57, 173-8.	0.3	7
171	Possible involvement of 4-hydroxynonenal in splenocyte regulated liver regeneration. <i>BioFactors</i> , 2005, 24, 217-226.	2.6	6
172	Lipid peroxidation in Rheumatoid arthritis; consequences and monitoring. <i>Free Radical Biology and Medicine</i> , 2014, 75, S49.	1.3	6
173	Modulation of Oxidative Stress: Pharmaceutical and Pharmacological Aspects 2017. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-2.	1.9	6
174	INDICES ON THE INVOLVEMENT OF GROWTH HORMONE AND INSULIN LIKE GROWTH FACTOR TYPE I IN THE PHENOMENON OF ENHANCED OSTEOGENESIS IN PATIENTS WITH TRAUMATIC BRAIN INJURY AND BONE FRACTURES. <i>Shock</i> , 1999, 12, 6.	1.0	5
175	Lipid peroxidation, detoxification capacity, and genome damage in mice after transplacental exposure to pharmaceutical drugs. <i>Brazilian Journal of Medical and Biological Research</i> , 2013, 46, 1014-1020.	0.7	5
176	Preface to the Special Issue on 4-Hydroxynonenal and Related Lipid Oxidation Products. <i>Free Radical Biology and Medicine</i> , 2017, 111, 1.	1.3	5
177	Development of a novel monoclonal antibody against 4-hydroxy-2E,6Z-dodecadienal (4-HDDE)-protein adducts: Immunochemical application in quantitative and qualitative analyses of lipid peroxidation in vitro and ex vivo. <i>Free Radical Biology and Medicine</i> , 2018, 124, 12-20.	1.3	5
178	Poor Agreement Between Two Commonly Used Measures of Shame- and Guilt-Proneness. <i>Journal of Personality Assessment</i> , 2020, 102, 499-507.	1.3	5
179	Short overview on the relevance of microRNA "reactive oxygen species (ROS) interactions and lipid peroxidation for modulation of oxidative stress-mediated signalling pathways in cancer treatment. <i>Journal of Pharmacy and Pharmacology</i> , 2022, 74, 503-515.	1.2	5
180	Interval hypoxic training in complex treatment of Helicobacter pylori-associated peptic ulcer disease. <i>Acta Biochimica Polonica</i> , 2010, 57, 199-208.	0.3	5

#	ARTICLE	IF	CITATIONS
181	Influence of Inhibition of COX-2-Dependent Lipid Metabolism on Regulation of UVB-Induced Keratinocytes Apoptosis by Cannabinoids. <i>Biomolecules</i> , 2022, 12, 842.	1.8	5
182	DNA-stabilisierende Wirkungen von <i>Viscum album</i> L. Sind Mistelextrakte als Adjuvans während der konventionellen Chemotherapie indiziert?. <i>Complementary Medicine Research</i> , 1996, 3, 244-248.	0.5	4
183	Uptake of Anti-Anemic Substance Ferric-Sorbitol-Citrate by Normal and Malignant Cells and Its Effects on Expression of Transferrin Receptor 1 and Ferritin. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2006, 21, 636-644.	0.7	4
184	Chemistry and personalized medicine – the research and development future of Europe. <i>Croatian Medical Journal</i> , 2012, 53, 291-293.	0.2	4
185	Evaluation of three simple direct or indirect carbonyl detection methods for characterization of oxidative modifications of proteins. <i>Toxicology Mechanisms and Methods</i> , 2012, 22, 296-304.	1.3	4
186	Sarcoplasmic reticulum Ca ²⁺ -ATPase from rabbit skeletal muscle modified by peroxyxynitrite. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014, 29, 563-570.	2.5	4
187	1,4-Dihydropyridines as Tools for Mitochondrial Medicine Against Oxidative Stress and Associated Metabolic Disorders. <i>Current Organic Chemistry</i> , 2017, 21, .	0.9	4
188	Adjuvant Cancer Biotherapy by <i>Viscum Album</i> Extract Isorel: Overview of Evidence Based Medicine Findings. <i>Collegium Antropologicum</i> , 2015, 39, 701-8.	0.1	4
189	Spontaneous Regression of Cancer: Revealing Granulocytes and Oxidative Stress as the Crucial Double-edge Sword. <i>Frontiers in Bioscience</i> , 2022, 27, 119.	0.8	4
190	Spleen Peptides (Polyerga, ©) Inhibit Development of Artificial Lung Metastases of Murine Mammary Carcinoma and Increase Efficiency of Chemotherapy in Mice. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 1998, 13, 25-32.	0.7	3
191	Growth modulation of human cells in vitro by mild oxidative stress and 1,4-dihydropyridine derivative antioxidants. <i>Collegium Antropologicum</i> , 2011, 35, 137-41.	0.1	3
192	Analysis of the In Vitro Secretory Activity of Human Pituitary Adenomas: Modification of Corticotropin Release from Adenoma Tissue Explant Cultures by Addition of a Human Plasma Ultrafiltrate Bioactive Fraction. <i>Clinical Chemistry and Laboratory Medicine</i> , 1996, 34, 23-30.	1.4	2
193	Creating Holistic Project-knowledge Society through Project Management Education in Research and Development. <i>Procedia, Social and Behavioral Sciences</i> , 2014, 119, 210-218.	0.5	2
194	Editorial on Anticancer Antioxidants. <i>Antioxidants</i> , 2021, 10, 1782.	2.2	2
195	The lack of 4-hydroxynonenal in otosclerotic bone tissue in Ethiopian population. <i>European Archives of Oto-Rhino-Laryngology</i> , 2015, 272, 2783-2789.	0.8	1
196	A Review on Food-Associated Carcinogenesis. , 2016, , 35-56.		1
197	Monitoring Influence of Surgical Stress on Formation of Hydroxyl Radicals in Tumor Bearing Rats by Measuring Salicylic Acid Metabolites. <i>Electronic Journal of the International Federation of Clinical Chemistry and Laboratory Medicine</i> , 2000, 12, 56-59.	0.7	1
198	PROANP PLASMA LEVEL AND HEMODYNAMIC VARIABLES IN PATIENTS WITH SEVERE SEPSIS. <i>Shock</i> , 1999, 12, 15.	1.0	0

#	ARTICLE	IF	CITATIONS
199	POST-TRAUMATIC RECOVERY IN PATIENTS WITH LAPAROSCOPIC AND LAPAROTOMIC SURGERY DIFFERENTIAL RESPONSES DEPENDING ON THE TYPE OF SURGICAL TRAUMA AND ILLNESS. <i>Shock</i> , 1999, 12, 53.	1.0	0
200	Growth promoting effect of human plasma ultrafiltrate bioactive fraction (TBP) for human non-functioning pituitary adenoma cells in vitro. <i>Journal of Endocrinological Investigation</i> , 2000, 23, 737-743.	1.8	0
201	Tick-borne encephalitis - lipid peroxidation and its consequences. <i>Free Radical Biology and Medicine</i> , 2015, 86, S26-S27.	1.3	0
202	4-Hydroxynonenal as a biomarker of redox regulation in pathophysiology of metabolic stress. <i>Free Radical Biology and Medicine</i> , 2017, 108, S12.	1.3	0
203	<i>In vitro</i> model of bone regeneration with bioactive glass and lipid peroxidation. <i>Orvosi Hetilap</i> , 2010, 4, 73-78.	0.2	0
204	Cannabidiol as a modulator of apoptosis of psoriatic and healthy keratinocytes. <i>Free Radical Biology and Medicine</i> , 2021, 177, S126-S127.	1.3	0