Nuran Ercal

List of Publications by Year
in descending order

88 papers	4,523 citations	76294 40 h-index	106281 65 g-index
90 all docs	90 docs citations	90 times ranked	5863 citing authors

#	Article	IF	Citations
1	Can antioxidants be beneficial in the treatment of lead poisoning?. Free Radical Biology and Medicine, 2000, 29, 927-945.	1.3	478
2	Antioxidant effects of N-acetylcysteine and succimer in red blood cells from lead-exposed rats. Toxicology, 1998, 128, 181-189.	2.0	188
3	HIV-1 viral proteins gp120 and Tat induce oxidative stress in brain endothelial cells. Brain Research, 2005, 1045, 57-63.	1.1	170
4	Drying effects on the antioxidant properties of tomatoes and ginger. Food Chemistry, 2015, 173, 156-162.	4.2	156
5	In vivo indices of oxidative stress in lead-exposed C57BL/6 mice are reduced by treatment with meso-2,3-Dimercaptosuccinic Acid or N-acetylcysteine. Free Radical Biology and Medicine, 1996, 21, 157-161.	1.3	145
6	Biologically Important Thiols in Various Vegetables and Fruits. Journal of Agricultural and Food Chemistry, 2004, 52, 8151-8154.	2.4	131
7	Extra Virgin Olive Oil Improves Learning and Memory in SAMP8 Mice. Journal of Alzheimer's Disease, 2012, 28, 81-92.	1.2	124
8	HIV proteins (gp120 and Tat) and methamphetamine in oxidative stress-induced damage in the brain: Potential role of the thiol antioxidant N-acetylcysteine amide. Free Radical Biology and Medicine, 2010, 48, 1388-1398.	1.3	109
9	Antioxidant and free radical scavenging properties of N-acetylcysteine amide (NACA) and comparison with N-acetylcysteine (NAC). Free Radical Research, 2008, 42, 372-377.	1.5	107
10	Nicotine enantiomers and oxidative stress. Toxicology, 1998, 130, 155-165.	2.0	105
11	Effects of N-acetylcysteine amide (NACA), a novel thiol antioxidant against glutamate-induced cytotoxicity in neuronal cell line PC12. Brain Research, 2005, 1056, 132-138.	1.1	105
12	D-amino acid levels in human physiological fluids. Chirality, 1993, 5, 375-378.	1.3	102
13	A novel antioxidant N-acetylcysteine amide prevents gp120- and Tat-induced oxidative stress in brain endothelial cells. Experimental Neurology, 2006, 201, 193-202.	2.0	97
14	Antioxidant role of Î±-lipoic acid in lead toxicity. Free Radical Biology and Medicine, 1999, 27, 75-81.	1.3	95
15	N-Acetylcysteine amide protects against methamphetamine-induced oxidative stress and neurotoxicity in immortalized human brain endothelial cells. Brain Research, 2009, 1275, 87-95.	1.1	93
16	The Blood-Brain Barrier in NeuroAIDS. Current HIV Research, 2006, 4, 259-266.	0.2	90
17	Acute and subacute pulmonary toxicity and mortality in mice after intratracheal instillation of ZnO nanoparticles in three laboratories. Food and Chemical Toxicology, 2015, 85, 84-95.	1.8	87
18	Antioxidant role of N-acetyl cysteine isomers following high dose irradiation. Free Radical Biology and Medicine, 2003, 34, 689-695.	1.3	78

#	Article	IF	Citations
19	Highly active antiretroviral therapy drug combination induces oxidative stress and mitochondrial dysfunction in immortalized human bloodâ€“brain barrier endothelial cells. Free Radical Biology and Medicine, 2011, 50, 801-810.	1.3	78
20	Effect of Alpha-Lipoic Acid on Memory, Oxidation, and Lifespan in SAMP8 Mice. Journal of Alzheimer's Disease, 2012, 32, 447-455.	1.2	75
21	Enantiomeric composition of nicotine in smokeless tobacco, medicinal products, and commercial reagents. Chirality, 1998, 10, 587-591.	1.3	65
22	Pro-oxidant effects of Î´-aminolevulinic acid (Î´-ALA) on Chinese hamster ovary (CHO) cells. Toxicology Letters, 1997, 91, 169-178.	0.4	57
23	Effects of N-Acetylcysteine on Lead-Exposed PC-12 Cells. Archives of Environmental Contamination and Toxicology, 2005, 49, 119-123.	2.1	53
24	N-Acetylcysteine Amide (NACA) Prevents Retinal Degeneration by Up-Regulating Reduced Glutathione Production and Reversing Lipid Peroxidation. American Journal of Pathology, 2011, 178, 2032-2043.	1.9	51
25	Effects of N-acetylcysteine and 2,3-dimercaptosuccinic acid on lead induced oxidative stress in rat lenses. Toxicology, 1998, 130, 167-174.	2.0	50
26	Oxidative stress in a phenylketonuria animal model. Free Radical Biology and Medicine, 2002, 32, 906-911.	1.3	50
27	Potentiation of lead-induced cell death in PC12 cells by glutamate: Protection by N-acetylcysteine amide (NACA), a novel thiol antioxidant. Toxicology and Applied Pharmacology, 2006, 216, 197-205.	1.3	50
28	Pharmacological Inhibition of Mitochondrial Carbonic Anhydrases Protects Mouse Cerebral Pericytes from High Glucose-Induced Oxidative Stress and Apoptosis. Journal of Pharmacology and Experimental Therapeutics, 2013, 344, 637-645.	1.3	49
29	N -acetylcysteine amide, a promising antidote for acetaminophen toxicity. Toxicology Letters, 2016, 241, 133-142.	0.4	49
30	Effects of N-acetylcysteine amide (NACA), a thiol antioxidant on radiation-induced cytotoxicity in Chinese hamster ovary cells. Life Sciences, 2008, 82, 1122-1130.	2.0	48
31	N-acetylcysteine protects Chinese hamster ovary (CHO) cells from lead-induced oxidative stress. Toxicology, 1996, 108, 57-64.	2.0	47
32	[22] Measurement of glutathione, glutathione disulfide, and other thiols in mammalian cell and tissue homogenates using high-performance liquid chromatography separation of N-(1-pyrenyl)maleimide derivatives. Methods in Enzymology, 1999, 299, 258-267.	0.4	45
33	Oxidative effects of Tartrazine (CAS No. 1934-21-0) and New Coccin (CAS No. 2611-82-7) azo dyes on CHO cells. Journal Fur Verbraucherschutz Und Lebensmittelsicherheit, 2012, 7, 229-236.	0.5	45
34	Biologically important thiols in aqueous extracts of spices and evaluation of their in vitro antioxidant properties. Food Chemistry, 2010, 118, 589-593.	4.2	44
35	Simultaneous determination of 3-nitro tyrosine, o-, m-, and p-tyrosine in urine samples by liquid chromatographyâ€“ultraviolet absorbance detection with pre-column cloud point extraction. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 803, 321-329.	1.2	43
36	Determination of glutathione disulfide levels in biological samples using thiolâ€“disulfide exchanging agent, dithiothreitol. Biomedical Chromatography, 2009, 23, 119-123.	0.8	43

#	Article	IF	Citations
37	Effects of a growth hormone-releasing hormone antagonist on telomerase activity, oxidative stress, longevity, and aging in mice. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22272-22277.	3.3	43
38	Separation and quantification ofN-acetyl-l-cysteine andN-acetyl-cysteine-amide by HPLC with fluorescence detection. Biomedical Chromatography, 2006, 20, 415-422.	0.8	42
39	Determination of captopril in biological samples by high-performance liquid chromatography with ThioGlo?3 derivatization. Biomedical Chromatography, 2001, 15, 427-432.	0.8	41
40	Characterizing N-acetylcysteine (NAC) and N-acetylcysteine amide (NACA) binding for lead poisoning treatment. Journal of Colloid and Interface Science, 2012, 371, 144-149.	5.0	41
41	Copper complexing decreases the ability of amyloid beta peptide to cross the BBB and enter brain parenchyma. Peptides, 2007, 28, 1424-1432.	1.2	40
42	Stereochemistry of pipecolic acid found in the urine and plasma of subjects with peroxisomal deficiencies. Journal of Pharmaceutical and Biomedical Analysis, 1993, 11, 881-886.	1.4	39
43	In vivo inhibition of l-buthionine-(S,R)-sulfoximine-induced cataracts by a novel antioxidant, N-acetylcysteine amide. Free Radical Biology and Medicine, 2011, 50, 722-729.	1.3	39
44	Effects of Lead and Cadmium on Brain Endothelial Cell Survival, Monolayer Permeability, and Crucial Oxidative Stress Markers in an in Vitro Model of the Blood-Brain Barrier. Toxics, 2014, 2, 258-275.	1.6	39
45	Inflammatory responses to pulmonary application of PEI-based siRNA nanocarriers in mice. Biomaterials, 2011, 32, 8694-8701.	5.7	37
46	Glutathione is essential for early embryogenesis â€“ Analysis of a glutathione synthetase knockout mouse. Biochemical and Biophysical Research Communications, 2011, 412, 121-126.	1.0	36
47	Comparative evaluation of N-acetylcysteine (NAC) and N-acetylcysteine amide (NACA) on glutamate and lead-induced toxicity in CD-1 mice. Toxicology Letters, 2011, 201, 1-7.	0.4	36
48	Effects of some sulfur-containing antioxidants on lead-exposed lenses. Free Radical Biology and Medicine, 1999, 26, 239-243.	1.3	35
49	Captopril as an antioxidant in lead-exposed Fischer 344 rats. Human and Experimental Toxicology, 1999, 18, 27-32.	1.1	34
50	N-acetylcysteineamide (NACA) prevents inflammation and oxidative stress in animals exposed to diesel engine exhaust. Toxicology Letters, 2009, 187, 187-193.	0.4	32
51	N-acetylcysteineamide protects against manganese-induced toxicity in SHSY5Y cell line. Brain Research, 2015, 1608, 157-166.	1.1	32
52	In vitro study of the metabolic effects ofD-amino acids. , 1996, 8, 24-29.		30
53	Medicinal Thiols: Current Status and New Perspectives. Mini-Reviews in Medicinal Chemistry, 2020, 20, 513-529.	1.1	30
54	Effect of nanodiamond surface chemistry on adsorption and release of tiopronin. Diamond and Related Materials, 2019, 100, 107590.	1.8	29

#	Article	IF	Citations
55	High performance liquid chromatography analysis of 2-mercaptoethylamine (cysteamine) in biological samples by derivatization with N-(1-pyrenyl) maleimide (NPM) using fluorescence detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 843, 57-62.	1.2	28
56	Disruption of the integrity and function of brain microvascular endothelial cells in culture by exposure to diesel engine exhaust particles. Toxicology Letters, 2013, 220, 1-7.	0.4	28
57	Comparative evaluation of N-acetylcysteine and N-acetylcysteineamide in acetaminophen-induced hepatotoxicity in human hepatoma HepaRG cells. Experimental Biology and Medicine, 2015, 240, 261-272.	1.1	27
58	Prevention and reversal of selenite-induced cataracts by N-acetylcysteine amide in Wistar rats. BMC Ophthalmology, 2017, 17, 54.	0.6	27
59	Impact of Food Disinfection on Beneficial Biothiol Contents in Vegetables. Journal of Agricultural and Food Chemistry, 2005, 53, 9830-9840.	2.4	26
60	Antioxidant potential of Sutherlandia frutescens and its protective effects against oxidative stress in various cell cultures. BMC Complementary and Alternative Medicine, 2014, 14, 271.	3.7	26
61	N-Acetyl-l-cysteine protects against Î´-aminolevulinic acid-induced 8-hydroxydeoxyguanosine formation. Toxicology Letters, 1999, 106, 41-47.	0.4	25
62	High performance liquid chromatography analysis ofD-penicillamine by derivatization with N-(1-pyrenyl)maleimide (NPM). Biomedical Chromatography, 2000, 14, 535-540.	0.8	25
63	RESOLUTION OF CHIRAL THIOL COMPOUNDS DERIVATIZED WITH N-(1-PYRENYL)-MALEIMIDE AND THIOGLOâ„¢3. Journal of Liquid Chromatography and Related Technologies, 2000, 23, 1941-1952.	0.5	25
64	Nitrative Stress in Cerebral Endothelium is Mediated by mGluR5 in Hyperhomocysteinemia. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 825-834.	2.4	24
65	High performance liquid chromatography analysis of MESNA (2-mercaptoethane sulfonate) in biological samples using ?uorescence detection. Biomedical Chromatography, 2005, 19, 80-86.	0.8	21
66	Impact of Food Disinfection on Beneficial Biothiol Contents in Strawberry. Journal of Agricultural and Food Chemistry, 2008, 56, 10414-10421.	2.4	19
67	Postharvest application of thiol compounds affects surface browning and antioxidant activity of freshâ€cut potatoes. Journal of Food Biochemistry, 2020, 44, e13378.	1.2	18
68	Analysis of thiol-containing compounds in biological samples by capillary zone electrophoresis. , 1996, 10, 15-18.		17
69	Liquid chromatography analysis of N-(2-mercaptopropionyl)-glycine in biological samples by ThioGloâ„¢ 3 derivatization. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2004, 807, 251-256.	1.2	16
70	Effects of selenocystine on lead-exposed Chinese hamster ovary (CHO) and PC-12 cells. Toxicology and Applied Pharmacology, 2006, 214, 136-143.	1.3	16
71	Pulmonary DWCNT exposure causes sustained local and low-level systemic inflammatory changes in mice. European Journal of Pharmaceutics and Biopharmaceutics, 2013, 84, 412-420.	2.0	14
72	Protective Effect of Topiramate on Hyperglycemia-Induced Cerebral Oxidative Stress, Pericyte Loss and Learning Behavior in Diabetic Mice. , 2015, 1, 6-12.		11

#	Article	IF	Citations
73	Protective effects of tiopronin on oxidatively challenged human lung carcinoma cells (A549). Free Radical Research, 2020, 54, 319-329.	1.5	10
74	Continuous measurement of reactive oxygen species inside and outside of a residential house during summer. Indoor Air, 2021, 31, 1199-1216.	2.0	8
75	Sub-chronic lead exposure alters kidney proteome profiles. Human and Experimental Toxicology, 2011, 30, 1616-1625.	1.1	7
76	Development of a HPLC-MS/MS method for assessment of thiol redox status in human tear fluids. Analytical Biochemistry, 2021, 629, 114295.	1.1	7
77	Simultaneous determination of tiopronin and its primary metabolite in plasma and ocular tissues by HPLC. Biomedical Chromatography, 2019, 33, e4375.	0.8	6
78	Glutamine protects Chinese hamster ovary cells from radiation killing. Life Sciences, 1994, 55, 713-720.	2.0	5
79	The Effects of Toradol on Postoperative Intimal Hyperplasia in a Rat Carotid Endarterectomy Model: Laboratory Research. Vascular and Endovascular Surgery, 2007, 41, 402-408.	0.3	5
80	Genotype, Age, Genetic Background, and Sex Influence Epha2-Related Cataract Development in Mice. , 2021, 62, 3.		4
81	Thiol antioxidants protect human lens epithelial (HLE B-3) cells against tert-butyl hydroperoxide-induced oxidative damage and cytotoxicity. Biochemistry and Biophysics Reports, 2022, 29, 101213.	0.7	4
82	Release of N-acetylcysteine and N-acetylcysteine Amide From Contact Lenses. Eye and Contact Lens, 2013, 39, 335-340.	0.8	3
83	The protective effect of N-acetylcysteine amide against paraquat-inducedneurotoxicity. Turkish Journal of Chemistry, 2019, 43, 39-49.	0.5	3
84	Alcohol as a potential contributing factor in radiation complications. Clinical Advances in Hematology and Oncology, 2009, 7, 257-62.	0.3	2
85	Liposomal-delivery of phosphodiesterase 5 inhibitors augments UT-15C-stimulated ATP release from human erythrocytes. Biochemistry and Biophysics Reports, 2017, 12, 114-119.	0.7	1
86	The role of N-acetylcysteine amide in defending primary human retinal pigment epithelial cells against tert-butyl hydroperoxide- induced oxidative stress. Free Radicals and Antioxidants, 2017, 7, 172-177.	0.2	1
87	Extensive Thiol Profiling for Assessment of Intracellular Redox Status in Cultured Cells by HPLC-MS/MS. Antioxidants, 2022, 11, 24.	2.2	1
88	Liposomal Delivery of a Phosphodiesterase 5 Inhibitor Enhances Prostacyclin-Mediated Adenosine Triphosphate Release from Human Red Blood Cells. Blood, 2016, 128, 4803-4803.	0.6	0