Ãngel CatalÃ¡

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8063966/publications.pdf

Version: 2024-02-01

59 papers	2,179 citations	304743 22 h-index	223800 46 g-index
59 all docs	59 docs citations	59 times ranked	3304 citing authors

#	Article	IF	Citations
1	Lipid peroxidation of membrane phospholipids generates hydroxy-alkenals and oxidized phospholipids active in physiological and/or pathological conditions. Chemistry and Physics of Lipids, 2009, 157, 1-11.	3.2	605
2	An overview of lipid peroxidation with emphasis in outer segments of photoreceptors and the chemiluminescence assay. International Journal of Biochemistry and Cell Biology, 2006, 38, 1482-1495.	2.8	168
3	Lipid peroxidation modifies the picture of membranes from the â€œFluid Mosaic Modelâ€• to the â€œLipid Whisker Modelâ€• Biochimie, 2012, 94, 101-109.	2.6	108
4	Virgin olive oil reduces blood pressure in hypertensive elderly subjects. Clinical Nutrition, 2004, 23, 1113-1121.	5.0	99
5	Editorial: Impact of Lipid Peroxidation on the Physiology and Pathophysiology of Cell Membranes. Frontiers in Physiology, 2016, 7, 423.	2.8	96
6	A synopsis of the process of lipid peroxidation since the discovery of the essential fatty acids. Biochemical and Biophysical Research Communications, 2010, 399, 318-323.	2.1	90
7	Antioxidant activity of conjugated linoleic acid isomers, linoleic acid and its methyl ester determined by photoemission and DPPH techniques. Biophysical Chemistry, 2008, 137, 56-62.	2.8	72
8	The Ability of Melatonin to Counteract Lipid Peroxidation in Biological Membranes. Current Molecular Medicine, 2007, 7, 638-649.	1.3	67
9	Circadian rhythm of fatty acid desaturation in mouse liver. Lipids, 1973, 8, 1-6.	1.7	63
10	Effect of Dietary High-Oleic-Acid Oils that are Rich in Antioxidants on Microsomal Lipid Peroxidation in Rats. Journal of Agricultural and Food Chemistry, 2005, 53, 730-735.	5.2	53
11	Lipid peroxidation of membrane phospholipids in the vertebrate retina. Frontiers in Bioscience - Scholar, 2011, S3, 52-60.	2.1	50
12	Five Decades with Polyunsaturated Fatty Acids: Chemical Synthesis, Enzymatic Formation, Lipid Peroxidation and Its Biological Effects. Journal of Lipids, 2013, 2013, 1-19.	4.8	47
13	Soybean phosphatidylcholine liposomes as model membranes to study lipid peroxidation photoinduced by pterin. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 139-145.	2.6	42
14	The effect of tyrosol, hydroxytyrosol and oleuropein on the non-enzymatic lipid peroxidation of rat liver microsomes. Molecular and Cellular Biochemistry, 2001, 217, 35-41.	3.1	39
15	Melatonin-induced gene expression changes and its preventive effects on adriamycin-induced lipid peroxidation in rat liver. Journal of Pineal Research, 2007, 42, 43-49.	7.4	35
16	Fe2+ and Fe3+ initiated peroxidation of sonicated and non-sonicated liposomes made of retinal lipids in different aqueous media. Chemistry and Physics of Lipids, 2009, 159, 88-94.	3.2	29
17	Retinal fatty acid binding protein reduce lipid peroxidation stimulated by long-chain fatty acid hydroperoxides on rod outer segments. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2002, 1581, 65-74.	2.4	26
18	Protective effect of indoleamines on in vitro ascorbate-Fe2+dependent lipid peroxidation of rod outer segment membranes of bovine retina. Journal of Pineal Research, 2003, 35, 276-282.	7.4	26

#	Article	IF	Citations
19	Non-enzymatic lipid peroxidation of microsomes and mitochondria isolated from liver and heart of pigeon and rat. International Journal of Biochemistry and Cell Biology, 2000, 32, 73-79.	2.8	25
20	Lipidâ€“protein modifications during ascorbate-Fe2+ peroxidation of photoreceptor membranes: protective effect of melatonin. Journal of Pineal Research, 2006, 41, 201-210.	7.4	24
21	The function of very long chain polyunsaturated fatty acids in the pineal gland. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 95-99.	2.4	24
22	Fatty acid profiles and lipid peroxidation of microsomes and mitochondria from liver, heart and brain of Cairina moschata. International Journal of Biochemistry and Cell Biology, 2002, 34, 605-612.	2.8	23
23	Antioxidant effect of conjugated linoleic acid and vitamin A during non enzymatic lipid peroxidation of rat liver microsomes and mitochondria. Molecular and Cellular Biochemistry, 2003, 250, 107-113.	3.1	23
24	Melatonin preserves arachidonic and docosapentaenoic acids during ascorbate-Fe2+ peroxidation of rat testis microsomes and mitochondria. International Journal of Biochemistry and Cell Biology, 2003, 35, 359-366.	2.8	23
25	The antioxidant behaviour of melatonin and structural analogues during lipid peroxidation depends not only on their functional groups but also on the assay system. Biochemical and Biophysical Research Communications, 2012, 423, 873-877.	2.1	23
26	Lipid peroxidation modifies the assembly of biological membranes Ã¢â‚¬Å“The Lipid Whisker ModelÃ¢â‚¬Â• Frontiers in Physiology, 2014, 5, 520.	2.8	22
27	Non-enzymatic peroxidation of lipids isolated from rat liver microsomes, mitochondria and nuclei. International Journal of Biochemistry and Cell Biology, 1997, 29, 541-546.	2.8	21
28	Relative incorporation of linoleic and arachidonic acid in phospholipids and triglycerides of different rat tissues. Lipids, 1967, 2, 114-121.	1.7	20
29	Pulmonary surfactant protein A inhibits the lipid peroxidation stimulated by linoleic acid hydroperoxide of rat lung mitochondria and microsomes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2005, 1735, 101-110.	2.4	20
30	The effect of alpha-tocopherol on the lipid peroxidation of mitochondria and microsomes obtained from rat liver and testis. , 2001, 225, 121-128.		18
31	Protective effect of Nâ€acetylâ€serotonin on the nonenzymatic lipid peroxidation in rat testicular microsomes and mitochondria. Journal of Pineal Research, 2004, 37, 153-160.	7.4	18
32	Oleic acid transfer from microsomes to egg lecithin liposomes: Participation of fatty acid binding protein. Lipids, 1983, 18, 803-807.	1.7	17
33	The effect of melatonin and structural analogues on the lipid peroxidation of triglycerides enriched in Ï‰-3 polyunsaturated fatty acids. Life Sciences, 2007, 81, 299-305.	4.3	16
34	Protective effect of melatonin on ascorbateâ€Fe²⁺ lipid peroxidation of polyunsaturated fatty acids in rat liver, kidney and brain microsomes: a chemiluminescence study. Journal of Pineal Research, 2005, 39, 164-169.	7.4	15
35	A low degree of fatty acid unsaturation leads to high resistance to lipid peroxidation in mitochondria and microsomes of different organs of quail (Coturnix coturnix japonica). Molecular and Cellular Biochemistry, 2006, 282, 109-115.	3.1	13
36	Non-enzymatic lipid peroxidation of microsomes and mitochondria from liver, heart and brain of the bird Lonchura striata: Relationship with fatty acid composition. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2007, 146, 415-421.	1.8	13

#	Article	IF	Citations
37	Ascorbate-Fe2+ lipid-peroxidation of rat liver microsomes: effect of vitamin E and cytosolic proteins. , 1998, 183, 49-54.		10
38	Liver chromatin fractions inMus andAkodon. Molecular and Cellular Biochemistry, 1981, 36, 135-141.	3.1	9
39	Relative efficacies of Î±-tocopherol, N-acetyl-serotonin, and melatonin in reducing non-enzymatic lipid peroxidation of rat testicular microsomes and mitochondria. Molecular and Cellular Biochemistry, 2009, 321, 37-43.	3.1	9
40	DNA of AKODON (RODENTIA, CRICETIDAE). II. MOLECULAR HYBRIDIZATION OF REPETITIVE DNA SEQUENCES. Genome, 1982, 24, 601-609.	0.7	7
41	Non-enzymatic lipid peroxidation of rat liver nuclei and chromatin fractions. International Journal of Biochemistry and Cell Biology, 1998, 30, 967-972.	2.8	7
42	Melatonin and N-acetyl serotonin inhibit selectively enzymatic and non-enzymatic lipid peroxidation of rat liver microsomes. Prostaglandins Leukotrienes and Essential Fatty Acids, 2007, 77, 29-35.	2.2	7
43	Melatonin and structural analogues do not possess antioxidant properties on Fe2+-initiated peroxidation of sonicated liposomes made of retinal lipids. Chemistry and Physics of Lipids, 2011, 164, 688-695.	3.2	7
44	Chill-coma recovery time, age and sex determine lipid profiles in Ceratitis capitata tissues. Journal of Insect Physiology, 2016, 87, 53-62.	2.0	7
45	The Effect of Lindane on the Lipid Peroxidation of Microsomes and Mitochondria Isolated from Liver and Heart of Columba livia. Pesticide Biochemistry and Physiology, 2000, 68, 119-126.	3.6	6
46	Fatty acid composition and lipid peroxidation induced by ascorbate-Fe2+ in different organs of goose (Anser anser). Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2004, 137, 123-132.	2.6	6
47	Effect of ATP on the microsomal desaturation of unsaturated fatty acids. Lipids, 1971, 6, 873-881.	1.7	5
48	Non-enzymatic and enzymatic lipid peroxidation of microsomes and nuclei obtained from rat liver. Molecular and Cellular Biochemistry, 2004, 265, 1-9.	3.1	5
49	Rat, caprine, equine and bovine erythrocyte ghosts exposed to t-butyl hydroperoxide as a model to study lipid peroxidation using a chemiluminescence assay. Research in Veterinary Science, 2005, 79, 19-27.	1.9	5
50	Sensitivity of mitochondria isolated from liver and kidney of rat and bovine to lipid peroxidation: A comparative study of light emission and fatty acid profiles. Molecular and Cellular Biochemistry, 2005, 280, 77-82.	3.1	4
51	Arachidonic acid hydroperoxide stimulates lipid peroxidation in rat liver nuclei and chromatin fractions. Molecular and Cellular Biochemistry, 2007, 298, 161-168.	3.1	4
52	High resistance to lipid peroxidation of bird heart mitochondria and microsomes: Effects of mass and maximum lifespan. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2009, 154, 409-416.	1.8	4
53	Peroxidation stimulated by lipid hydroperoxides on bovine retinal pigment epithelium mitochondria. International Journal of Biochemistry and Cell Biology, 2003, 35, 1071-1084.	2.8	2
54	Leakage of sulphobromophthalein from large simple bilayer phospholipid vesicles. Journal of Microencapsulation, 1988, 5, 319-324.	2.8	1

#	Article	IF	Citations
55	Comparative study of the responses of bovine and mouse intestinal mucosa to iron-dependent lipid peroxidation. Comparative Biochemistry and Physiology Part B: Comparative Biochemistry, 1992, 103, 817-819.	0.2	1
56	The Effect of Copper Overload on the Sheep Erythrocyte Membrane.. Journal of Clinical Biochemistry and Nutrition, 1996, 21, 183-190.	1.4	0
57	Introductory Chapter: LiposomesÂ- Advances and Perspectives - My Point of View. , 0, , .		0
58	Prologue: My Experience with Photoreceptors - The Peroxidation of Lipids. , 0, , .		0
59	Introductory Chapter: Mitochondrial Diseases - Advances and Perspectives - My Point of View. , 0, , .		0