

Àngel CatalÀ;

List of Publications by Year in descending order

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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	Editorial: Impact of Lipid Peroxidation on the Physiology and Pathophysiology of Cell Membranes. <i>Frontiers in Physiology</i> , 2016, 7, 423.	2.8	96
2	Chill-coma recovery time, age and sex determine lipid profiles in <i>Ceratitis capitata</i> tissues. <i>Journal of Insect Physiology</i> , 2016, 87, 53-62.	2.0	7
3	Soybean phosphatidylcholine liposomes as model membranes to study lipid peroxidation photoinduced by pterin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 139-145.	2.6	42
4	Lipid peroxidation modifies the assembly of biological membranes –“The Lipid Whisker Model”–. <i>Frontiers in Physiology</i> , 2014, 5, 520.	2.8	22
5	Five Decades with Polyunsaturated Fatty Acids: Chemical Synthesis, Enzymatic Formation, Lipid Peroxidation and Its Biological Effects. <i>Journal of Lipids</i> , 2013, 2013, 1-19.	4.8	47
6	The antioxidant behaviour of melatonin and structural analogues during lipid peroxidation depends not only on their functional groups but also on the assay system. <i>Biochemical and Biophysical Research Communications</i> , 2012, 423, 873-877.	2.1	23
7	Lipid peroxidation modifies the picture of membranes from the “Fluid Mosaic Model” to the “Lipid Whisker Model”. <i>Biochimie</i> , 2012, 94, 101-109.	2.6	108
8	Lipid peroxidation of membrane phospholipids in the vertebrate retina. <i>Frontiers in Bioscience - Scholar</i> , 2011, S3, 52-60.	2.1	50
9	Melatonin and structural analogues do not possess antioxidant properties on Fe ²⁺ -initiated peroxidation of sonicated liposomes made of retinal lipids. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 688-695.	3.2	7
10	The function of very long chain polyunsaturated fatty acids in the pineal gland. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 95-99.	2.4	24
11	A synopsis of the process of lipid peroxidation since the discovery of the essential fatty acids. <i>Biochemical and Biophysical Research Communications</i> , 2010, 399, 318-323.	2.1	90
12	High resistance to lipid peroxidation of bird heart mitochondria and microsomes: Effects of mass and maximum lifespan. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 154, 409-416.	1.8	4
13	Lipid peroxidation of membrane phospholipids generates hydroxy-alkenals and oxidized phospholipids active in physiological and/or pathological conditions. <i>Chemistry and Physics of Lipids</i> , 2009, 157, 1-11.	3.2	605
14	Fe ²⁺ and Fe ³⁺ initiated peroxidation of sonicated and non-sonicated liposomes made of retinal lipids in different aqueous media. <i>Chemistry and Physics of Lipids</i> , 2009, 159, 88-94.	3.2	29
15	Relative efficacies of α -tocopherol, N-acetyl-serotonin, and melatonin in reducing non-enzymatic lipid peroxidation of rat testicular microsomes and mitochondria. <i>Molecular and Cellular Biochemistry</i> , 2009, 321, 37-43.	3.1	9
16	Antioxidant activity of conjugated linoleic acid isomers, linoleic acid and its methyl ester determined by photoemission and DPPH techniques. <i>Biophysical Chemistry</i> , 2008, 137, 56-62.	2.8	72
17	The Ability of Melatonin to Counteract Lipid Peroxidation in Biological Membranes. <i>Current Molecular Medicine</i> , 2007, 7, 638-649.	1.3	67
18	Melatonin and N-acetyl serotonin inhibit selectively enzymatic and non-enzymatic lipid peroxidation of rat liver microsomes. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2007, 77, 29-35.	2.2	7

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19	The effect of melatonin and structural analogues on the lipid peroxidation of triglycerides enriched in 3 polyunsaturated fatty acids. <i>Life Sciences</i> , 2007, 81, 299-305.	4.3	16
20	Melatonin-induced gene expression changes and its preventive effects on adriamycin-induced lipid peroxidation in rat liver. <i>Journal of Pineal Research</i> , 2007, 42, 43-49.	7.4	35
21	Non-enzymatic lipid peroxidation of microsomes and mitochondria from liver, heart and brain of the bird <i>Lonchura striata</i> : Relationship with fatty acid composition. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 146, 415-421.	1.8	13
22	Arachidonic acid hydroperoxide stimulates lipid peroxidation in rat liver nuclei and chromatin fractions. <i>Molecular and Cellular Biochemistry</i> , 2007, 298, 161-168.	3.1	4
23	An overview of lipid peroxidation with emphasis in outer segments of photoreceptors and the chemiluminescence assay. <i>International Journal of Biochemistry and Cell Biology</i> , 2006, 38, 1482-1495.	2.8	168
24	Lipid protein modifications during ascorbate-Fe ²⁺ peroxidation of photoreceptor membranes: protective effect of melatonin. <i>Journal of Pineal Research</i> , 2006, 41, 201-210.	7.4	24
25	A low degree of fatty acid unsaturation leads to high resistance to lipid peroxidation in mitochondria and microsomes of different organs of quail (<i>Coturnix coturnix japonica</i>). <i>Molecular and Cellular Biochemistry</i> , 2006, 282, 109-115.	3.1	13
26	Protective effect of melatonin on ascorbate-Fe ²⁺ lipid peroxidation of polyunsaturated fatty acids in rat liver, kidney and brain microsomes: a chemiluminescence study. <i>Journal of Pineal Research</i> , 2005, 39, 164-169.	7.4	15
27	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. <i>Molecular and Cellular Biochemistry</i> , 2005, 280, 77-82.	3.1	4
28	Pulmonary surfactant protein A inhibits the lipid peroxidation stimulated by linoleic acid hydroperoxide of rat lung mitochondria and microsomes. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2005, 1735, 101-110.	2.4	20
29	Rat, caprine, equine and bovine erythrocyte ghosts exposed to t-butyl hydroperoxide as a model to study lipid peroxidation using a chemiluminescence assay. <i>Research in Veterinary Science</i> , 2005, 79, 19-27.	1.9	5
30	Effect of Dietary High-Oleic-Acid Oils that are Rich in Antioxidants on Microsomal Lipid Peroxidation in Rats. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 730-735.	5.2	53
31	Protective effect of N-acetylserotonin on the nonenzymatic lipid peroxidation in rat testicular microsomes and mitochondria. <i>Journal of Pineal Research</i> , 2004, 37, 153-160.	7.4	18
32	Virgin olive oil reduces blood pressure in hypertensive elderly subjects. <i>Clinical Nutrition</i> , 2004, 23, 1113-1121.	5.0	99
33	Non-enzymatic and enzymatic lipid peroxidation of microsomes and nuclei obtained from rat liver. <i>Molecular and Cellular Biochemistry</i> , 2004, 265, 1-9.	3.1	5
34	Fatty acid composition and lipid peroxidation induced by ascorbate-Fe ²⁺ in different organs of goose (<i>Anser anser</i>). <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2004, 137, 123-132.	2.6	6
35	Antioxidant effect of conjugated linoleic acid and vitamin A during non enzymatic lipid peroxidation of rat liver microsomes and mitochondria. <i>Molecular and Cellular Biochemistry</i> , 2003, 250, 107-113.	3.1	23
36	Protective effect of indoleamines on in vitro ascorbate-Fe ²⁺ dependent lipid peroxidation of rod outer segment membranes of bovine retina. <i>Journal of Pineal Research</i> , 2003, 35, 276-282.	7.4	26

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37	Melatonin preserves arachidonic and docosapentaenoic acids during ascorbate-Fe ²⁺ peroxidation of rat testis microsomes and mitochondria. <i>International Journal of Biochemistry and Cell Biology</i> , 2003, 35, 359-366.	2.8	23
38	Peroxidation stimulated by lipid hydroperoxides on bovine retinal pigment epithelium mitochondria. <i>International Journal of Biochemistry and Cell Biology</i> , 2003, 35, 1071-1084.	2.8	2
39	Fatty acid profiles and lipid peroxidation of microsomes and mitochondria from liver, heart and brain of <i>Cairina moschata</i> . <i>International Journal of Biochemistry and Cell Biology</i> , 2002, 34, 605-612.	2.8	23
40	Retinal fatty acid binding protein reduce lipid peroxidation stimulated by long-chain fatty acid hydroperoxides on rod outer segments. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2002, 1581, 65-74.	2.4	26
41	The effect of alpha-tocopherol on the lipid peroxidation of mitochondria and microsomes obtained from rat liver and testis. , 2001, 225, 121-128.		18
42	The effect of tyrosol, hydroxytyrosol and oleuropein on the non-enzymatic lipid peroxidation of rat liver microsomes. <i>Molecular and Cellular Biochemistry</i> , 2001, 217, 35-41.	3.1	39
43	The Effect of Lindane on the Lipid Peroxidation of Microsomes and Mitochondria Isolated from Liver and Heart of <i>Columba livia</i> . <i>Pesticide Biochemistry and Physiology</i> , 2000, 68, 119-126.	3.6	6
44	Non-enzymatic lipid peroxidation of microsomes and mitochondria isolated from liver and heart of pigeon and rat. <i>International Journal of Biochemistry and Cell Biology</i> , 2000, 32, 73-79.	2.8	25
45	Ascorbate-Fe ²⁺ lipid-peroxidation of rat liver microsomes: effect of vitamin E and cytosolic proteins. , 1998, 183, 49-54.		10
46	Non-enzymatic lipid peroxidation of rat liver nuclei and chromatin fractions. <i>International Journal of Biochemistry and Cell Biology</i> , 1998, 30, 967-972.	2.8	7
47	Non-enzymatic peroxidation of lipids isolated from rat liver microsomes, mitochondria and nuclei. <i>International Journal of Biochemistry and Cell Biology</i> , 1997, 29, 541-546.	2.8	21
48	The Effect of Copper Overload on the Sheep Erythrocyte Membrane.. <i>Journal of Clinical Biochemistry and Nutrition</i> , 1996, 21, 183-190.	1.4	0
49	Comparative study of the responses of bovine and mouse intestinal mucosa to iron-dependent lipid peroxidation. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1992, 103, 817-819.	0.2	1
50	Leakage of sulphobromophthalein from large simple bilayer phospholipid vesicles. <i>Journal of Microencapsulation</i> , 1988, 5, 319-324.	2.8	1
51	Oleic acid transfer from microsomes to egg lecithin liposomes: Participation of fatty acid binding protein. <i>Lipids</i> , 1983, 18, 803-807.	1.7	17
52	DNA of AKODON (RODENTIA, CRICETIDAE). II. MOLECULAR HYBRIDIZATION OF REPETITIVE DNA SEQUENCES. <i>Genome</i> , 1982, 24, 601-609.	0.7	7
53	Liver chromatin fractions in <i>Mus</i> and <i>Akodon</i> . <i>Molecular and Cellular Biochemistry</i> , 1981, 36, 135-141.	3.1	9
54	Circadian rhythm of fatty acid desaturation in mouse liver. <i>Lipids</i> , 1973, 8, 1-6.	1.7	63

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55	Effect of ATP on the microsomal desaturation of unsaturated fatty acids. <i>Lipids</i> , 1971, 6, 873-881.	1.7	5
56	Relative incorporation of linoleic and arachidonic acid in phospholipids and triglycerides of different rat tissues. <i>Lipids</i> , 1967, 2, 114-121.	1.7	20
57	Introductory Chapter: Liposomes - 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