Liang-Jun Yan

List of Publications by Year
in descending order

111 papers	8,950 citations	57758 44 h-index	42399 92 g-index
111 all docs	111 docs citations	111 times ranked	12486 citing authors

#	Article	IF	Citations
1	Oxidative DNA damage and senescence of human diploid fibroblast cells.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 4337-4341.	7.1	639
2	Oxidative damage during aging targets mitochondrialâ€‰aconitase. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 11168-11172.	7.1	590
3	Role of Catalase in Oxidative Stress- and Age-Associated Degenerative Diseases. Oxidative Medicine and Cellular Longevity, 2019, 2019, 1-19.	4.0	478
4	Microglia, neuroinflammation, and beta-amyloid protein in Alzheimer's disease. International Journal of Neuroscience, 2014, 124, 307-321.	1.6	447
5	Multiple organ pathology, metabolic abnormalities and impaired homeostasis of reactive oxygen species in Epas1â^'/â^' mice. Nature Genetics, 2003, 35, 331-340.	21.4	438
6	Human Î±B-Crystallin Mutation Causes Oxido-Reductive Stress and Protein Aggregation Cardiomyopathy in Mice. Cell, 2007, 130, 427-439.	28.9	386
7	Mitochondrial adenine nucleotide translocase is modified oxidatively during aging. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 12896-12901.	7.1	382
8	Pathogenesis of Chronic Hyperglycemia: From Reductive Stress to Oxidative Stress. Journal of Diabetes Research, 2014, 2014, 1-11.	2.3	261
9	Mouse heat shock transcription factor 1 deficiency alters cardiac redox homeostasis and increases mitochondrial oxidative damage. EMBO Journal, 2002, 21, 5164-5172.	7.8	217
10	UV-Irradiation Depletes Antioxidants and Causes Oxidative Damage in a Model of Human Skin. Free Radical Biology and Medicine, 1998, 24, 55-65.	2.9	216
11	Alternative Mitochondrial Electron Transfer as a Novel Strategy for Neuroprotection. Journal of Biological Chemistry, 2011, 286, 16504-16515.	3.4	212
12	Role of RAGE in Alzheimerâ€™s Disease. Cellular and Molecular Neurobiology, 2016, 36, 483-495.	3.3	203
13	Heat shock factor 1 and heat shock proteins: Critical partners in protection against acute cell injury. Critical Care Medicine, 2002, 30, S43-S50.	0.9	193
14	Redox imbalance stress in diabetes mellitus: Role of the polyol pathway. Animal Models and Experimental Medicine, 2018, 1, 7-13.	3.3	172
15	Pyruvate protects mitochondria from oxidative stress in human neuroblastoma SK-N-SH cells. Brain Research, 2007, 1132, 1-9.	2.2	162
16	Roles of AMP-activated Protein Kinase in Alzheimerâ€™s Disease. NeuroMolecular Medicine, 2012, 14, 1-14.	3.4	146
17	Spectrophotometric Method for Determination of Carbonyls in Oxidatively Modified Apolipoprotein B of Human Low-Density Lipoproteins. Analytical Biochemistry, 1995, 228, 349-351.	2.4	145
18	Positive oxidative stress in aging and aging-related disease tolerance. Redox Biology, 2014, 2, 165-169.	9.0	144

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19	Streptozotocin-induced type 1 diabetes in rodents as a model for studying mitochondrial mechanisms of diabetic β cell glucotoxicity. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2015, 8, 181.	2.4	135
20	Neuroprotective Actions of Methylene Blue and Its Derivatives. PLoS ONE, 2012, 7, e48279.	2.5	120
21	Activation of mTOR: a culprit of Alzheimer’s disease?. Neuropsychiatric Disease and Treatment, 2015, 11, 1015.	2.2	108
22	Prevention of flight activity prolongs the life span of the housefly, Musca domestica, and attenuates the age-associated oxidative damamge to specific mitochondrial proteins. Free Radical Biology and Medicine, 2000, 29, 1143-1150.	2.9	103
23	Protein Oxidative Modifications: Beneficial Roles in Disease and Health. Journal of Biochemical and Pharmacological Research, 2013, 1, 15-26.	1.7	100
24	Hyperglycemic Stress and Carbon Stress in Diabetic Glucotoxicity. , 2016, 7, 90.		99
25	Efficacy of Hypochlorous Acid Scavengers in the Prevention of Protein Carbonyl Formation. Archives of Biochemistry and Biophysics, 1996, 327, 330-334.	3.0	98
26	Telomere Shortening and Alzheimerâ€™s Disease. NeuroMolecular Medicine, 2013, 15, 25-48.	3.4	88
27	Chemical probes for analysis of carbonylated proteins: A review. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 1308-1315.	2.3	86
28	Sources and implications of NADH/NAD+ redox imbalance in diabetes and its complications. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2016, 9, 145.	2.4	85
29	Cancer-associated Isocitrate Dehydrogenase 1 (IDH1) R132H Mutation and d-2-Hydroxyglutarate Stimulate Glutamine Metabolism under Hypoxia. Journal of Biological Chemistry, 2014, 289, 23318-23328.	3.4	81
30	Cerebral small vessel disease and Alzheimer’s disease. Clinical Interventions in Aging, 2015, 10, 1695.	2.9	81
31	Cadmium-Induced Kidney Injury: Oxidative Damage as a Unifying Mechanism. Biomolecules, 2021, 11, 1575.	4.0	81
32	Hypoxia-inducible Factor 2Î± Regulates Expression of the Mitochondrial Aconitase Chaperone Protein Frataxin. Journal of Biological Chemistry, 2007, 282, 11750-11756.	3.4	77
33	Estrogen Receptor Î² as a Mitochondrial Vulnerability Factor. Journal of Biological Chemistry, 2009, 284, 9540-9548.	3.4	73
34	Role and Possible Mechanisms of Sirt1 in Depression. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-6.	4.0	73
35	Potential Biochemical Mechanisms of Lung Injury in Diabetes. , 2017, 8, 7.		72
36	Elucidation of Antioxidant Activity of Î±-Lipoic Acid Toward Hydroxyl Radical. Biochemical and Biophysical Research Communications, 1995, 208, 161-167.	2.1	71

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37	Redox imbalance and mitochondrial abnormalities in the diabetic lung. Redox Biology, 2017, 11, 51-59.	9.0	64
38	Histochemical staining and quantification of dihydrolipoamide dehydrogenase diaphorase activity using blue native PAGE. Electrophoresis, 2007, 28, 1036-1045.	2.4	63
39	Antioxidant Activity of Diethyldithiocarbamate. Free Radical Research, 1996, 24, 461-472.	3.3	60
40	Identification of Oxidized Proteins Based on Sodium Dodecyl Sulfateâ€“Polyacrylamide Gel Electrophoresis, Immunochemical Detection, Isoelectric Focusing, and Microsequencing. Analytical Biochemistry, 1998, 263, 67-71.	2.4	59
41	Ginkgo Biloba Extract (EGb 761) Protects Human Low-Density Lipoproteins against Oxidative Modification Mediated by Copper. Biochemical and Biophysical Research Communications, 1995, 212, 360-366.	2.1	56
42	Roles of Pyruvate, NADH, and Mitochondrial Complex I in Redox Balance and Imbalance in<i>Î²</i>Cell Function and Dysfunction. Journal of Diabetes Research, 2015, 2015, 1-12.	2.3	56
43	Mouse HSF1 Disruption Perturbs Redox State and Increases Mitochondrial Oxidative Stress in Kidney. Antioxidants and Redox Signaling, 2005, 7, 465-471.	5.4	53
44	Protein Modifications as Manifestations of Hyperglycemic Glucotoxicity in Diabetes and Its Complications. Biochemistry Insights, 2016, 9, BCI.S36141.	3.3	53
45	Reversible inactivation of dihydrolipoamide dehydrogenase by mitochondrial hydrogen peroxide. Free Radical Research, 2013, 47, 123-133.	3.3	52
46	Rapamycin, Autophagy, and Alzheimer's Disease. Journal of Biochemical and Pharmacological Research, 2013, 1, 84-90.	1.7	52
47	Resolving mitochondrial protein complexes using nongradient blue native polyacrylamide gel electrophoresis. Analytical Biochemistry, 2009, 389, 143-149.	2.4	46
48	Mass spectrometryâ€based survey of ageâ€associated protein carbonylation in rat brain mitochondria. Journal of Mass Spectrometry, 2007, 42, 1583-1589.	1.6	44
49	Glutaredoxins concomitant with optimal ROS activate AMPK through S-glutathionylation to improve glucose metabolism in type 2 diabetes. Free Radical Biology and Medicine, 2016, 101, 334-347.	2.9	44
50	Folic acidâ€induced animal model of kidney disease. Animal Models and Experimental Medicine, 2021, 4, 329-342.	3.3	44
51	Macromolecular carbonyls in human stratum corneum: a biomarker for environmental oxidant exposure?. FEBS Letters, 1998, 422, 403-406.	2.8	43
52	The negative and detrimental effects of high fructose on the liver, with special reference to metabolic disorders . Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2019, Volume 12, 821-826.	2.4	43
53	Analysis of Oxidative Modification of Proteins. Current Protocols in Protein Science, 2009, 56, Unit14.4.	2.8	42
54	Ceruloplasmin, a Potential Therapeutic Agent for Alzheimer's Disease. Antioxidants and Redox Signaling, 2018, 28, 1323-1337.	5.4	42

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55	Heat shock factor 1 and heat shock proteins: critical partners in protection against acute cell injury. Critical Care Medicine, 2002, 30, S43-50.	0.9	42
56	Changes in dihydrolipoamide dehydrogenase expression and activity during postnatal development and aging in the rat brain. Mechanisms of Ageing and Development, 2008, 129, 282-290.	4.6	41
57	Pancreatic mitochondrial complex I exhibits aberrant hyperactivity in diabetes. Biochemistry and Biophysics Reports, 2017, 11, 119-129.	1.3	40
58	Apolipoprotein B Carbonyl Formation Is Enhanced by Lipid Peroxidation during Copper-Mediated Oxidation of Human Low-Density Lipoproteins. Archives of Biochemistry and Biophysics, 1997, 339, 165-171.	3.0	39
59	Gel Electrophoretic Quantitation of Protein Carbonyls Derivatized with Tritiated Sodium Borohydride. Analytical Biochemistry, 1998, 265, 176-182.	2.4	38
60	Protein Redox Modification as a Cellular Defense Mechanism against Tissue Ischemic Injury. Oxidative Medicine and Cellular Longevity, 2014, 2014, 1-12.	4.0	38
61	Two dimensional blue native/SDS-PAGE to identify mitochondrial complex I subunits modified by 4-hydroxynonenal (HNE). Frontiers in Physiology, 2015, 6, 98.	2.8	35
62	Humanin Attenuates NMDA-Induced Excitotoxicity by Inhibiting ROS-dependent JNK/p38 MAPK Pathway. International Journal of Molecular Sciences, 2018, 19, 2982.	4.1	33
63	Effects of aging and hyperoxia on oxidative damage to cytochrome c in the housefly, Musca domestica1. Free Radical Biology and Medicine, 2000, 29, 90-97.	2.9	31
64	PTEN degradation after ischemic stroke: A double-edged sword. Neuroscience, 2014, 274, 153-161.	2.3	31
65	Role of insulin resistance in Alzheimerâ€™s disease. Metabolic Brain Disease, 2015, 30, 839-851.	2.9	31
66	Chemical Conditioning as an Approach to Ischemic Stroke Tolerance: Mitochondria as the Target. International Journal of Molecular Sciences, 2016, 17, 351.	4.1	31
67	Vagus nerve stimulation as a promising adjunctive treatment for ischemic stroke. Neurochemistry International, 2019, 131, 104539.	3.8	30
68	Reductive Stress-Induced Mitochondrial Dysfunction and Cardiomyopathy. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-11.	4.0	26
69	Antioxidant Activity, Antitumor Effect, and Antiaging Property of Proanthocyanidins Extracted from<i>Kunlun Chrysanthemum</i>Flowers. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-10.	4.0	22
70	The Neuroprotective Effects of SIRT1 on NMDA-Induced Excitotoxicity. Oxidative Medicine and Cellular Longevity, 2017, 2017, 1-11.	4.0	22
71	Chronic Inhibition of Mitochondrial Dihydrolipoamide Dehydrogenase (DLDH) as an Approach to Managing Diabetic Oxidative Stress. Antioxidants, 2019, 8, 32.	5.1	22
72	Post-ischemic administration of 5-methoxyindole-2-carboxylic acid at the onset of reperfusion affords neuroprotection against stroke injury by preserving mitochondrial function and attenuating oxidative stress. Biochemical and Biophysical Research Communications, 2018, 497, 444-450.	2.1	21

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73	NADH/NAD+ Redox Imbalance and Diabetic Kidney Disease. Biomolecules, 2021, 11, 730.	4.0	21
74	Neuroprotection of Cyperus esculentus L. orientin against cerebral ischemia/reperfusion induced brain injury. Neural Regeneration Research, 2020, 15, 548.	3.0	21
75	Analysis of Oxidative Modification of Proteins. Current Protocols in Protein Science, 2009, 55, Unit 14.4.	2.8	20
76	Metabolic Dysfunction of Astrocyte: An Initiating Factor in Beta-amyloid Pathology?. Aging and Neurodegeneration, 2013, 1, 7-14.	2.0	20
77	The Lipoic Acid Analogue 1,2-Diselenolane-3-pentanoic Acid Protects Human Low Density Lipoprotein against Oxidative Modification Mediated by Copper Ion. Biochemical and Biophysical Research Communications, 1997, 240, 819-824.	2.1	19
78	Role of pseudohypoxia in the pathogenesis of type 2 diabetes . Hypoxia (Auckland, N Z) Tj ETQq0 0 0 rgBT /Overlock 1	1.9	19
79	Effects of mesencephalic astrocyte-derived neurotrophic factor on cerebral angiogenesis in a rat model of cerebral ischemia. Neuroscience Letters, 2020, 715, 134657.	2.1	19
80	Administration of 5-methoxyindole-2-carboxylic acid that potentially targets mitochondrial dihydrolipoamide dehydrogenase confers cerebral preconditioning against ischemic stroke injury. Free Radical Biology and Medicine, 2017, 113, 244-254.	2.9	18
81	Comparison of antioxidant and antiproliferative activity between Kunlun Chrysanthemum flowers polysaccharides (KCCP) and fraction PII separated by column chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1019, 169-177.	2.3	17
82	Ethanol withdrawal provokes mitochondrial injury in an estrogen preventable manner. Journal of Bioenergetics and Biomembranes, 2008, 40, 35-44.	2.3	15
83	Reversible inactivation of dihydrolipoamide dehydrogenase by Angeli's salt. Sheng Wu Wu Li Hsueh Bao, 2012, 28, 341-350.	0.1	15
84	Ethanol withdrawal acts as an age-specific stressor to activate cerebellar P38 kinase. Neurobiology of Aging, 2011, 32, 2266-2278.	3.1	14
85	Nongradient blue native gel analysis of serum proteins and in-gel detection of serum esterase activities. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 386-394.	2.3	14
86	Regulation of the SIRT1 signaling pathway in NMDA-induced Excitotoxicity. Toxicology Letters, 2020, 322, 66-76.	0.8	14
87	Serum Dihydrolipoamide Dehydrogenase Is a Labile Enzyme. Journal of Biochemical and Pharmacological Research, 2013, 1, 30-42.	1.7	14
88	Antioxidant and Antiproliferative Activities of Purslane Seed Oil. Journal of Hypertension: Open Access, 2016, 05, .	0.2	13
89	Potential Biochemical Mechanisms of Brain Injury in Diabetes Mellitus. , 2020, 11, 978.		13
90	Mitochondrial Dihydrolipoamide Dehydrogenase Is Upregulated in Response to Intermittent Hypoxic Preconditioning. International Journal of Medical Sciences, 2015, 12, 432-440.	2.5	10

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91	Two-dimensional gel electrophoretic detection of protein carbonyls derivatized with biotin-hydrazide. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1019, 128-131.	2.3	10
92	Circulating factors in young blood as potential therapeutic agents for age-related neurodegenerative and neurovascular diseases. Brain Research Bulletin, 2019, 153, 15-23.	3.0	10
93	Induction of Protein Oxidation in Human Low Lipoprotein by the Photosensitive Organic Hydroperoxide, N,Nâ€²-bis(2-Hydroxyperoxy-2-Methoxyethyl)-1,4,5,8-Naphthalene-Tetra-Carboxylic-Diimide. Biochemical and Biophysical Research Communications, 1995, 206, 138-145.	2.1	9
94	Nonâ€Gradient Blue Native Polyacrylamide Gel Electrophoresis. Current Protocols in Protein Science, 2017, 87, 19.29.1-19.29.12.	2.8	9
95	Reexploring 5-methoxyindole-2-carboxylic acid (MICA) as a potential antidiabetic agent. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2018, Volume 11, 183-186.	2.4	9
96	Urine Sample-Derived Cerebral Organoids Suitable for Studying Neurodevelopment and Pharmacological Responses. Frontiers in Cell and Developmental Biology, 2020, 8, 304.	3.7	9
97	Analysis of Oxidative Modification of Proteins. Current Protocols in Cell Biology, 2002, 14, Unit 7.9.	2.3	8
98	Editorial: Diabetes and Obesity Effects on Lung Function. Frontiers in Endocrinology, 2020, 11, 462.	3.5	7
99	Analysis of Oxidative Modification of Proteins. Current Protocols in Protein Science, 2000, 20, Unit14.4.	2.8	6
100	Mitochondrial protein sulfenation during aging in the rat brain. Biophysics Reports, 2018, 4, 104-113.	0.8	6
101	Heat shock factor 1 and heat shock proteins: Critical partners in protection against acute cell injury. Critical Care Medicine, 2002, 30, S43-S50.	0.9	6
102	Effects of dietary 5-methoxyindole-2-carboxylic acid on brain functional recovery after ischemic stroke. Behavioural Brain Research, 2020, 378, 112278.	2.2	5
103	Experimental studies on some aspects of toxicological effects of gas phase cigarette smoke (GPCS). Research on Chemical Intermediates, 1991, 16, 15-28.	2.7	4
104	Antioxidative and Hypoglycemic Effect of Ta-ermi Extracts on Streptozotocin-Induced Diabetes . Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2020, Volume 13, 2147-2155.	2.4	2
105	Activation of Peripheral Group III Metabotropic Glutamate Receptors Suppressed Formalinâ€induced Nociception. Clinical and Experimental Pharmacology and Physiology, 2021, , .	1.9	1
106	5-Methoxyindole-2-Carboylic Acid (MICA) Fails to Retard Development and Progression of Type II Diabetes in ZSF1 Diabetic Rats. , 0, , .		1
107	Redox Imbalance and Mitochondrial Abnormalities in Kidney Disease. Biomolecules, 2022, 12, 476.	4.0	1
108	Chronic mTOR Inhibition by Rapamycin and Diabetes. , 2016, , 365-378.		0

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109	Reductive stress, complex I hyperactivities, and diabetes. Free Radical Biology and Medicine, 2021, 165, 23.	2.9	0
110	Comment on Kobroob et al. Effectiveness of N-Acetylcysteine in the Treatment of Renal Deterioration Caused by Long-Term Exposure to Bisphenol A. Biomolecules 2021, 11, 655. Biomolecules, 2021, 11, 888.	4.0	0
111	5-Methoxyindole-2-Carboylic Acid (MICA) Fails to Retard Development and Progression of Type II Diabetes in ZSF1 Diabetic Rats. Reactive Oxygen Species (Apex, N C), 2020, 9, 144-147.	5.4	0