

David Allan Butterfield

List of Publications by Year in descending order

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448
papers

44,953
citations

952

115
h-index

2953

189
g-index

458
all docs

458
docs citations

458
times ranked

36469
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitric oxide in the central nervous system: neuroprotection versus neurotoxicity. <i>Nature Reviews Neuroscience</i> , 2007, 8, 766-775.	10.2	1,208
2	Oxidative stress, dysfunctional glucose metabolism and Alzheimer disease. <i>Nature Reviews Neuroscience</i> , 2019, 20, 148-160.	10.2	1,021
3	Lipid peroxidation and protein oxidation in Alzheimer's disease brain: potential causes and consequences involving amyloid β -peptide-associated free radical oxidative stress 1,2 1Guest Editors: Mark A. Smith and George Perry 2This article is part of a series of reviews on "Causes and Consequences of Oxidative Stress in Alzheimer's Disease." The full list of papers may be found on the homepage of the journal. <i>Free Radical Biology and Medicine</i> , 2002, 32, 1050-1060.	2.9	893
4	Amyloid β -peptide (1-42)-induced Oxidative Stress and Neurotoxicity: Implications for Neurodegeneration in Alzheimer's Disease Brain. A Review. <i>Free Radical Research</i> , 2002, 36, 1307-1313.	3.3	694
5	Brain Regional Correspondence Between Alzheimer's Disease Histopathology and Biomarkers of Protein Oxidation. <i>Journal of Neurochemistry</i> , 1995, 65, 2146-2156.	3.9	682
6	Evidence that amyloid beta-peptide-induced lipid peroxidation and its sequelae in Alzheimer's disease brain contribute to neuronal death1. <i>Neurobiology of Aging</i> , 2002, 23, 655-664.	3.1	628
7	Proteomic identification of oxidatively modified proteins in Alzheimer's disease brain. part I: creatine kinase BB, glutamine synthase, and ubiquitin carboxy-terminal hydrolase L-1. <i>Free Radical Biology and Medicine</i> , 2002, 33, 562-571.	2.9	545
8	Proteomic identification of oxidatively modified proteins in Alzheimer's disease brain. Part II: dihydropyrimidinase-related protein 2, β -enolase and heat shock cognate 71. <i>Journal of Neurochemistry</i> , 2002, 82, 1524-1532.	3.9	528
9	Proteomic identification of nitrated proteins in Alzheimer's disease brain. <i>Journal of Neurochemistry</i> , 2003, 85, 1394-1401.	3.9	514
10	Roles of amyloid β -peptide-associated oxidative stress and brain protein modifications in the pathogenesis of Alzheimer's disease and mild cognitive impairment. <i>Free Radical Biology and Medicine</i> , 2007, 43, 658-677.	2.9	493
11	Amyloid β -Peptide (1-42)-Induced Oxidative Stress in Alzheimer Disease: Importance in Disease Pathogenesis and Progression. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 823-835.	5.4	439
12	Ferulic acid antioxidant protection against hydroxyl and peroxy radical oxidation in synaptosomal and neuronal cell culture systems in vitro: structure-activity studies. <i>Journal of Nutritional Biochemistry</i> , 2002, 13, 273-281.	4.2	434
13	The glial glutamate transporter, GLT-1, is oxidatively modified by 4-hydroxy-2-nonenal in the Alzheimer's disease brain: the role of β -1-42. <i>Journal of Neurochemistry</i> , 2001, 78, 413-416.	3.9	428
14	The antioxidants α -lipoic acid and N-acetylcysteine reverse memory impairment and brain oxidative stress in aged SAMP8 mice. <i>Journal of Neurochemistry</i> , 2003, 84, 1173-1183.	3.9	415
15	Lipid peroxidation triggers neurodegeneration: A redox proteomics view into the Alzheimer disease brain. <i>Free Radical Biology and Medicine</i> , 2013, 62, 157-169.	2.9	365
16	Oxidative stress, mitochondrial dysfunction and cellular stress response in Friedreich's ataxia. <i>Journal of the Neurological Sciences</i> , 2005, 233, 145-162.	0.6	361
17	Protective effect of quercetin in primary neurons against β (1-42): relevance to Alzheimer's disease. <i>Journal of Nutritional Biochemistry</i> , 2009, 20, 269-275.	4.2	359
18	Redox proteomics identification of oxidatively modified hippocampal proteins in mild cognitive impairment: Insights into the development of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2006, 22, 223-232.	4.4	356

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19	Oxidative stress precedes fibrillar deposition of Alzheimer's disease amyloid β -peptide (1-42) in a transgenic <i>Caenorhabditis elegans</i> model. <i>Neurobiology of Aging</i> , 2003, 24, 415-420.	3.1	345
20	Human endogenous retrovirus glycoprotein-mediated induction of redox reactants causes oligodendrocyte death and demyelination. <i>Nature Neuroscience</i> , 2004, 7, 1088-1095.	14.8	343
21	β -Amyloid-Associated Free Radical Oxidative Stress and Neurotoxicity: Implications for Alzheimer's Disease. <i>Chemical Research in Toxicology</i> , 1997, 10, 495-506.	3.3	340
22	Identification of nitrated proteins in Alzheimer's disease brain using a redox proteomics approach. <i>Neurobiology of Disease</i> , 2006, 22, 76-87.	4.4	335
23	Chapter 7 Protein Oxidation Processes in Aging Brain. <i>Advances in Cell Aging and Gerontology</i> , 1997, 2, 161-191.	0.1	333
24	Obesity and Hypertriglyceridemia Produce Cognitive Impairment. <i>Endocrinology</i> , 2008, 149, 2628-2636.	2.8	332
25	Different Mechanisms of Oxidative Stress and Neurotoxicity for Alzheimer's β (1-42) and β (25-35). <i>Journal of the American Chemical Society</i> , 2001, 123, 5625-5631.	13.7	325
26	Oxidative stress in Alzheimer's disease brain: New insights from redox proteomics. <i>European Journal of Pharmacology</i> , 2006, 545, 39-50.	3.5	316
27	Collateral Damage in Cancer Chemotherapy: Oxidative Stress in Nontargeted Tissues. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2007, 7, 147-156.	3.4	315
28	Protein Carbonylation. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 323-325.	5.4	311
29	The senescence-accelerated prone mouse (SAMP8): A model of age-related cognitive decline with relevance to alterations of the gene expression and protein abnormalities in Alzheimer's disease. <i>Experimental Gerontology</i> , 2005, 40, 774-783.	2.8	297
30	Redox proteomics identification of oxidized proteins in Alzheimer's disease hippocampus and cerebellum: An approach to understand pathological and biochemical alterations in AD. <i>Neurobiology of Aging</i> , 2006, 27, 1564-1576.	3.1	296
31	Elevated risk of type 2 diabetes for development of Alzheimer disease: A key role for oxidative stress in brain. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 1693-1706.	3.8	286
32	Role of Oxidative Stress in the Progression of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2010, 19, 341-353.	2.6	282
33	Alteration of mTOR signaling occurs early in the progression of Alzheimer disease (AD): analysis of brain from subjects with preclinical AD, amnesic mild cognitive impairment and late-stage AD. <i>Journal of Neurochemistry</i> , 2015, 133, 739-749.	3.9	276
34	Mitochondrial dysfunction, free radical generation and cellular stress response in neurodegenerative disorders. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 1107.	3.0	274
35	Oxidative Stress, Amyloid- β Peptide, and Altered Key Molecular Pathways in the Pathogenesis and Progression of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2018, 62, 1345-1367.	2.6	271
36	Elevation of glutathione as a therapeutic strategy in Alzheimer disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012, 1822, 625-630.	3.8	267

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37	mTOR signaling in aging and neurodegeneration: At the crossroad between metabolism dysfunction and impairment of autophagy. <i>Neurobiology of Disease</i> , 2015, 84, 39-49.	4.4	261
38	Measurement of Oxidized/Reduced Glutathione Ratio. <i>Methods in Molecular Biology</i> , 2010, 648, 269-277.	0.9	260
39	Ferulic acid ethyl ester protects neurons against amyloid beta- peptide(1-42)-induced oxidative stress and neurotoxicity: relationship to antioxidant activity. <i>Journal of Neurochemistry</i> , 2005, 92, 749-758.	3.9	255
40	Free radicals and brain aging. <i>Clinics in Geriatric Medicine</i> , 2004, 20, 329-359.	2.6	252
41	Oxidatively Modified Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH) and Alzheimer's Disease: Many Pathways to Neurodegeneration. <i>Journal of Alzheimer's Disease</i> , 2010, 20, 369-393.	2.6	252
42	Involvements of the lipid peroxidation product, HNE, in the pathogenesis and progression of Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2010, 1801, 924-929.	2.4	249
43	The Lipid Peroxidation Product, 4-Hydroxy-2-nonenal, Alters the Conformation of Cortical Synaptosomal Membrane Proteins. <i>Journal of Neurochemistry</i> , 1997, 69, 1161-1169.	3.9	247
44	Oxidative Modification of Creatine Kinase BB in Alzheimer's Disease Brain. <i>Journal of Neurochemistry</i> , 2002, 74, 2520-2527.	3.9	242
45	Redox proteomic identification of 4-Hydroxy-2-nonenal-modified brain proteins in amnesic mild cognitive impairment: Insight into the role of lipid peroxidation in the progression and pathogenesis of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2008, 30, 107-120.	4.4	236
46	Oxidative stress, protein modification and Alzheimer disease. <i>Brain Research Bulletin</i> , 2017, 133, 88-96.	3.0	230
47	The critical role of methionine 35 in Alzheimer's amyloid β -peptide (1-42)-induced oxidative stress and neurotoxicity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2005, 1703, 149-156.	2.3	228
48	Elevated protein-bound levels of the lipid peroxidation product, 4-hydroxy-2-nonenal, in brain from persons with mild cognitive impairment. <i>Neuroscience Letters</i> , 2006, 397, 170-173.	2.1	227
49	Protein Oxidation and Lipid Peroxidation in Brain of Subjects with Alzheimer's Disease: Insights into Mechanism of Neurodegeneration from Redox Proteomics. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 2021-2037.	5.4	224
50	Oxidative modification and down-regulation of Pin1 in Alzheimer's disease hippocampus: A redox proteomics analysis. <i>Neurobiology of Aging</i> , 2006, 27, 918-925.	3.1	222
51	Proteomics Analysis of the Alzheimer's Disease Hippocampal Proteome. <i>Journal of Alzheimer's Disease</i> , 2007, 11, 153-164.	2.6	222
52	The Glutamatergic System and Alzheimer's Disease. <i>CNS Drugs</i> , 2003, 17, 641-652.	5.9	220
53	Redox Regulation of Cellular Stress Response in Aging and Neurodegenerative Disorders: Role of Vitagenes. <i>Neurochemical Research</i> , 2007, 32, 757-773.	3.3	219
54	Vitamin E Prevents Alzheimer's Amyloid β -Peptide (1-42)-Induced Neuronal Protein Oxidation and Reactive Oxygen Species Production. <i>Journal of Alzheimer's Disease</i> , 2000, 2, 123-131.	2.6	218

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55	Amyloid β -Peptide (1-42) Contributes to the Oxidative Stress and Neurodegeneration Found in Alzheimer Disease Brain. <i>Brain Pathology</i> , 2004, 14, 426-432.	4.1	218
56	Lipopolysaccharide alters the blood-brain barrier transport of amyloid β protein: A mechanism for inflammation in the progression of Alzheimer's disease. <i>Brain, Behavior, and Immunity</i> , 2009, 23, 507-517.	4.1	218
57	Elevated levels of 3-nitrotyrosine in brain from subjects with amnesic mild cognitive impairment: Implications for the role of nitration in the progression of Alzheimer's disease. <i>Brain Research</i> , 2007, 1148, 243-248.	2.2	211
58	Adriamycin-induced, TNF- α -mediated central nervous system toxicity. <i>Neurobiology of Disease</i> , 2006, 23, 127-139.	4.4	204
59	Amyloid β Peptide (25-35) Inhibits Na ⁺ -Dependent Glutamate Uptake in Rat Hippocampal Astrocyte Cultures. <i>Journal of Neurochemistry</i> , 1996, 67, 277-286.	3.9	202
60	Proteomics: a new approach to investigate oxidative stress in Alzheimer's disease brain. <i>Brain Research</i> , 2004, 1000, 1-7.	2.2	199
61	Oxidatively modified proteins in Alzheimer's disease (AD), mild cognitive impairment and animal models of AD: role of A β in pathogenesis. <i>Acta Neuropathologica</i> , 2009, 118, 131-150.	7.7	194
62	Free Radicals: Key to Brain Aging and Heme Oxygenase as a Cellular Response to Oxidative Stress. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2004, 59, M478-M493.	3.6	192
63	Role of 4-hydroxy-2-nonenal (HNE) in the pathogenesis of alzheimer disease and other selected age-related neurodegenerative disorders. <i>Free Radical Biology and Medicine</i> , 2017, 111, 253-261.	2.9	190
64	Nitric Oxide in Cell Survival: A Janus Molecule. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 2717-2739.	5.4	184
65	4-Hydroxy-2-Nonenal, a Reactive Product of Lipid Peroxidation, and Neurodegenerative Diseases: A Toxic Combination Illuminated by Redox Proteomics Studies. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1590-1609.	5.4	184
66	Proteomic identification of HNE-bound proteins in early Alzheimer disease: Insights into the role of lipid peroxidation in the progression of AD. <i>Brain Research</i> , 2009, 1274, 66-76.	2.2	182
67	Proteomic identification of brain proteins in the canine model of human aging following a long-term treatment with antioxidants and a program of behavioral enrichment: Relevance to Alzheimer's disease. <i>Neurobiology of Aging</i> , 2008, 29, 51-70.	3.1	179
68	Bcl-2 Protects Isolated Plasma and Mitochondrial Membranes Against Lipid Peroxidation Induced by Hydrogen Peroxide and Amyloid β -Peptide. <i>Journal of Neurochemistry</i> , 1998, 70, 31-39.	3.9	174
69	Structural and Functional Changes in Proteins Induced by Free Radical-mediated Oxidative Stress and Protective Action of the Antioxidants N-tert-Butyl-alpha-phenylnitron and Vitamin E. <i>Annals of the New York Academy of Sciences</i> , 1998, 854, 448-462.	3.8	172
70	Redox proteomics identification of 4-hydroxynonenal-modified brain proteins in Alzheimer's disease: Role of lipid peroxidation in Alzheimer's disease pathogenesis. <i>Proteomics - Clinical Applications</i> , 2009, 3, 682-693.	1.6	172
71	Proteomics in Alzheimer's disease: insights into potential mechanisms of neurodegeneration. <i>Journal of Neurochemistry</i> , 2003, 86, 1313-1327.	3.9	171
72	Glutathione elevation and its protective role in acrolein-induced protein damage in synaptosomal membranes: relevance to brain lipid peroxidation in neurodegenerative disease. <i>Neurochemistry International</i> , 2001, 39, 141-149.	3.8	170

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73	Oxidatively Induced Structural Alteration of Glutamine Synthetase Assessed by Analysis of Spin Label Incorporation Kinetics: Relevance to Alzheimer's Disease. <i>Journal of Neurochemistry</i> , 1997, 68, 2451-2457.	3.9	160
74	Intracellular Human Immunodeficiency Virus Tat Expression in Astrocytes Promotes Astrocyte Survival but Induces Potent Neurotoxicity at Distant Sites via Axonal Transport. <i>Journal of Biological Chemistry</i> , 2003, 278, 13512-13519.	3.4	160
75	Adriamycin-mediated nitration of manganese superoxide dismutase in the central nervous system: insight into the mechanism of chemobrain. <i>Journal of Neurochemistry</i> , 2007, 100, 191-201.	3.9	159
76	Acetylcarnitine induces heme oxygenase in rat astrocytes and protects against oxidative stress: Involvement of the transcription factor Nrf2. <i>Journal of Neuroscience Research</i> , 2005, 79, 509-521.	2.9	158
77	Abeta, oxidative stress in Alzheimer disease: Evidence based on proteomics studies. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 1248-1257.	3.8	158
78	Mitochondrial associated metabolic proteins are selectively oxidized in A30P Î±-synuclein transgenic miceâ€”a model of familial Parkinson's disease. <i>Neurobiology of Disease</i> , 2005, 18, 492-498.	4.4	157
79	In vivo oxidative stress in brain of Alzheimer disease transgenic mice: Requirement for methionine 35 in amyloid Î²-peptide of APP. <i>Free Radical Biology and Medicine</i> , 2010, 48, 136-144.	2.9	157
80	Proteomic Analysis of Protein Expression and Oxidative Modification in R6/2 Transgenic Mice. <i>Molecular and Cellular Proteomics</i> , 2005, 4, 1849-1861.	3.8	156
81	REVIEW: Pin1 in Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2006, 98, 1697-1706.	3.9	156
82	Amyloid Î²-peptide and amyloid pathology are central to the oxidative stress and inflammatory cascades under which Alzheimer's disease brain exists. <i>Journal of Alzheimer's Disease</i> , 2002, 4, 193-201.	2.6	155
83	An increase in S-glutathionylated proteins in the Alzheimer's disease inferior parietal lobule, a proteomics approach. <i>Journal of Neuroscience Research</i> , 2007, 85, 1506-1514.	2.9	155
84	Oxidative stress in Alzheimer disease and mild cognitive impairment: evidence from human data provided by redox proteomics. <i>Archives of Toxicology</i> , 2015, 89, 1669-1680.	4.2	155
85	Free radical mediated oxidative stress and toxic side effects in brain induced by the anti cancer drug adriamycin: Insight into chemobrain. <i>Free Radical Research</i> , 2005, 39, 1147-1154.	3.3	153
86	Redox Proteomics in Selected Neurodegenerative Disorders: From Its Infancy to Future Applications. <i>Antioxidants and Redox Signaling</i> , 2012, 17, 1610-1655.	5.4	152
87	Amyloid β-Peptide [1-42]-Associated Free Radical-Induced Oxidative Stress And Neurodegeneration in Alzheimers Disease Brain: Mechanisms and Consequences. <i>Current Medicinal Chemistry</i> , 2003, 10, 2651-2659.	2.4	151
88	Ethyl Ferulate, a Lipophilic Polyphenol, Induces HO-1 and Protects Rat Neurons Against Oxidative Stress. <i>Antioxidants and Redox Signaling</i> , 2004, 6, 811-818.	5.4	151
89	Multifunctional roles of enolase in Alzheimerâ€™s disease brain: beyond altered glucose metabolism. <i>Journal of Neurochemistry</i> , 2009, 111, 915-933.	3.9	149
90	Oxidatively Modified GST and MRP1 in Alzheimer's Disease Brain: Implications for Accumulation of Reactive Lipid Peroxidation Products. <i>Neurochemical Research</i> , 2004, 29, 2215-2220.	3.3	148

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91	Peroxynitrite-Induced Alterations in Synaptosomal Membrane Proteins. <i>Journal of Neurochemistry</i> , 1999, 72, 310-317.	3.9	147
92	Proteomic analysis of 4-hydroxy-2-nonenal-modified proteins in G93A-SOD1 transgenic mice-A model of familial amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , 2005, 38, 960-968.	2.9	141
93	Proteomic Identification of Oxidized Mitochondrial Proteins following Experimental Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2007, 24, 772-789.	3.4	141
94	Methionine residue 35 is critical for the oxidative stress and neurotoxic properties of Alzheimer's amyloid β -peptide 1-42. <i>Peptides</i> , 2002, 23, 1299-1309.	2.4	140
95	Oxidative Stress and Down Syndrome: A Route toward Alzheimer-Like Dementia. <i>Current Gerontology and Geriatrics Research</i> , 2012, 2012, 1-10.	1.6	139
96	Proteomic identification of proteins oxidized by $A\beta$ (1-42) in synaptosomes: Implications for Alzheimer's disease. <i>Brain Research</i> , 2005, 1044, 206-215.	2.2	137
97	Vitamin E and Neurodegenerative Disorders Associated with Oxidative Stress. <i>Nutritional Neuroscience</i> , 2002, 5, 229-239.	3.1	136
98	Natural antioxidants in Alzheimer's disease. <i>Expert Opinion on Investigational Drugs</i> , 2007, 16, 1921-1931.	4.1	136
99	Acetyl-L-carnitine-induced up-regulation of heat shock proteins protects cortical neurons against amyloid-beta peptide 1-42-mediated oxidative stress and neurotoxicity: Implications for Alzheimer's disease. <i>Journal of Neuroscience Research</i> , 2006, 84, 398-408.	2.9	135
100	Decreased levels of PSD95 and two associated proteins and increased levels of BCL2 and caspase 3 in hippocampus from subjects with amnesic mild cognitive impairment: Insights into their potential roles for loss of synapses and memory, accumulation of $A\beta$, and neurodegeneration in a prodromal stage of Alzheimer's disease. <i>Journal of Neuroscience Research</i> , 2010, 88, 469-477.	2.9	135
101	2-Mercaptoethane sulfonate prevents doxorubicin-induced plasma protein oxidation and TNF- α release: Implications for the reactive oxygen species-mediated mechanisms of chemobrain. <i>Free Radical Biology and Medicine</i> , 2011, 50, 1630-1638.	2.9	135
102	Alzheimer's amyloid β -peptide (1-42): involvement of methionine residue 35 in the oxidative stress and neurotoxicity properties of this peptide. <i>Neurobiology of Aging</i> , 2004, 25, 563-568.	3.1	129
103	Redox proteomics analysis of oxidatively modified proteins in G93A-SOD1 transgenic mice—a model of familial amyotrophic lateral sclerosis. <i>Free Radical Biology and Medicine</i> , 2005, 39, 453-462.	2.9	129
104	Quantitative proteomics analysis of differential protein expression and oxidative modification of specific proteins in the brains of old mice. <i>Neurobiology of Aging</i> , 2006, 27, 1010-1019.	3.1	129
105	Controlled enzymatic production of astrocytic hydrogen peroxide protects neurons from oxidative stress via an Nrf2-independent pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17385-17390.	7.1	129
106	Redox Homeostasis and Cellular Stress Response in Aging and Neurodegeneration. <i>Methods in Molecular Biology</i> , 2010, 610, 285-308.	0.9	129
107	Neuropathological role of PI3K/Akt/mTOR axis in Down syndrome brain. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 1144-1153.	3.8	127
108	Apolipoprotein E modulates Alzheimer's $A\beta$ (1-42)-induced oxidative damage to synaptosomes in an allele-specific manner. <i>Brain Research</i> , 2002, 924, 90-97.	2.2	125

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109	Involvement of PI3K/PKG/ERK1/2 signaling pathways in cortical neurons to trigger protection by cotreatment of acetyl-L-carnitine and α -lipoic acid against HNE-mediated oxidative stress and neurotoxicity: Implications for Alzheimer's disease. <i>Free Radical Biology and Medicine</i> , 2007, 42, 371-384.	2.9	125
110	Antisense directed at the A β 2 region of APP decreases brain oxidative markers in aged senescence accelerated mice. <i>Brain Research</i> , 2004, 1018, 86-96.	2.2	121
111	Redox Proteomics Identification of Oxidatively Modified Brain Proteins in Alzheimer's Disease and Mild Cognitive Impairment: Insights into the Progression of this Dementing Disorder. <i>Journal of Alzheimer's Disease</i> , 2007, 12, 61-72.	2.6	121
112	Glutathione elevation by γ -glutamyl cysteine ethyl ester as a potential therapeutic strategy for preventing oxidative stress in brain mediated by in vivo administration of adriamycin: Implication for chemobrain. <i>Journal of Neuroscience Research</i> , 2007, 85, 497-503.	2.9	120
113	β -Amyloid peptide-derived, oxygen-dependent free radicals inhibit glutamate uptake in cultured astrocytes: implications for Alzheimer's disease. <i>NeuroReport</i> , 1995, 6, 1875-1879.	1.2	119
114	Proteomics analysis provides insight into caloric restriction mediated oxidation and expression of brain proteins associated with age-related impaired cellular processes: Mitochondrial dysfunction, glutamate dysregulation and impaired protein synthesis. <i>Neurobiology of Aging</i> , 2006, 27, 1020-1034.	3.1	119
115	In vivo protective effects of ferulic acid ethyl ester against amyloid-beta peptide 1 α 42-induced oxidative stress. <i>Journal of Neuroscience Research</i> , 2006, 84, 418-426.	2.9	119
116	The Expression of Key Oxidative Stress-Handling Genes in Different Brain Regions in Alzheimer's Disease. <i>Journal of Molecular Neuroscience</i> , 1998, 11, 151-164.	2.3	117
117	Proteomic analysis of specific brain proteins in aged SAMP8 mice treated with alpha-lipoic acid: implications for aging and age-related neurodegenerative disorders. <i>Neurochemistry International</i> , 2005, 46, 159-168.	3.8	117
118	Acetylcarnitine and cellular stress response: roles in nutritional redox homeostasis and regulation of longevity genes. <i>Journal of Nutritional Biochemistry</i> , 2006, 17, 73-88.	4.2	115
119	Oxidative modification to LDL receptor-related protein 1 in hippocampus from subjects with Alzheimer disease: Implications for A β 2 accumulation in AD brain. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1798-1803.	2.9	115
120	In vivo protection of synaptosomes by ferulic acid ethyl ester (FAEE) from oxidative stress mediated by 2,2-azobis(2-amidino-propane)dihydrochloride (AAPH) or Fe ²⁺ /H ₂ O ₂ : Insight into mechanisms of neuroprotection and relevance to oxidative stress-related neurodegenerative disorders. <i>Neurochemistry International</i> , 2006, 48, 318-327.	3.8	114
121	Distribution, Elimination, and Biopersistence to 90 Days of a Systemically Introduced 30 nm Ceria-Engineered Nanomaterial in Rats. <i>Toxicological Sciences</i> , 2012, 127, 256-268.	3.1	114
122	Redox Regulation of Heat Shock Protein Expression by Signaling Involving Nitric Oxide and Carbon Monoxide: Relevance to Brain Aging, Neurodegenerative Disorders, and Longevity. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 444-477.	5.4	112
123	Beneficial Effects of Dietary Restriction on Cerebral Cortical Synaptic Terminals. <i>Journal of Neurochemistry</i> , 2001, 75, 314-320.	3.9	111
124	Proteomic identification of nitrated brain proteins in early Alzheimer's disease inferior parietal lobule. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 2019-2029.	3.6	111
125	Roles of 3-nitrotyrosine- and 4-hydroxynonenal-modified brain proteins in the progression and pathogenesis of Alzheimer's disease. <i>Free Radical Research</i> , 2011, 45, 59-72.	3.3	111
126	Antisense oligonucleotide against GSK-3 β in brain of SAMP8 mice improves learning and memory and decreases oxidative stress: Involvement of transcription factor Nrf2 and implications for Alzheimer disease. <i>Free Radical Biology and Medicine</i> , 2014, 67, 387-395.	2.9	111

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127	Mutations in amyloid precursor protein and presenilin-1 genes increase the basal oxidative stress in murine neuronal cells and lead to increased sensitivity to oxidative stress mediated by amyloid β -peptide (1-42), H ₂ O ₂ and kainic acid: implications for A. <i>Journal of Neurochemistry</i> , 2006, 96, 1322-1335.	3.9	109
128	Impairment of proteostasis network in Down syndrome prior to the development of Alzheimer's disease neuropathology: Redox proteomics analysis of human brain. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013, 1832, 1249-1259.	3.8	109
129	The Janus face of the heme oxygenase/biliverdin reductase system in Alzheimer disease: It's time for reconciliation. <i>Neurobiology of Disease</i> , 2014, 62, 144-159.	4.4	109
130	Redox Proteomic Analysis of Carbonylated Brain Proteins in Mild Cognitive Impairment and Early Alzheimer's Disease. <i>Antioxidants and Redox Signaling</i> , 2010, 12, 327-336.	5.4	108
131	Heme oxygenase-1 posttranslational modifications in the brain of subjects with Alzheimer disease and mild cognitive impairment. <i>Free Radical Biology and Medicine</i> , 2012, 52, 2292-2301.	2.9	108
132	Oxidative modification of lipoic acid by HNE in Alzheimer disease brain. <i>Redox Biology</i> , 2013, 1, 80-85.	9.0	108
133	Redox proteomics identification of oxidatively modified brain proteins in inherited Alzheimer's disease: An initial assessment. <i>Journal of Alzheimer's Disease</i> , 2006, 10, 391-397.	2.6	107
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