Carol A Colton

List of Publications by Year
in descending order

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104	8,595	53794 45	43889 91
papers	citations	h-index	g-index

109	109	109	11121
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Infection and inflammation: New perspectives on Alzheimer's disease. Brain, Behavior, & Immunity - Health, 2022, 22, 100462.	2.5	17
2	Likelihood ratio statistics for gene set enrichment in Alzheimer's disease pathways. Alzheimer's and Dementia, 2021, 17, 561-573.	0.8	4
3	Metabolism-Based Gene Differences in Neurons Expressing Hyperphosphorylated AT8â^' Positive (AT8+) Tau in Alzheimerâ€™s Disease. ASN Neuro, 2021, 13, 175909142110194.	2.7	4
4	CVNâ€AD Alzheimer's mice show premature reduction in neurovascular coupling in response to spreading depression and anoxia compared to aged controls. Alzheimer's and Dementia, 2021, 17, 1109-1120.	0.8	3
5	Capillary Electrophoresisâ€“High Resolution Mass Spectrometry for Measuring In Vivo Arginine Isotope Incorporation in Alzheimerâ€™s Disease Mouse Models. Journal of the American Society for Mass Spectrometry, 2021, 32, 1448-1458.	2.8	5
6	Percutaneous vagus nerve stimulation modulates glia activity and rescues acute AÎ² deposition in a mouse model of delirium superimposed on dementia.. Alzheimer's and Dementia, 2021, 17 Suppl 3, e056571.	0.8	0
7	Optimizing protocols for white matter tractography in animal models of genetic AD risk. Alzheimer's and Dementia, 2020, 16, e047440.	0.8	0
8	Vascular Cellular Adhesion Molecule-1 (VCAM-1) and Memory Impairment in African-Americans after Small Vessel-Type Stroke. Journal of Stroke and Cerebrovascular Diseases, 2020, 29, 104646.	1.6	8
9	Skyline for Small Molecules: A Unifying Software Package for Quantitative Metabolomics. Journal of Proteome Research, 2020, 19, 1447-1458.	3.7	253
10	Neurovascular and immune mechanisms that regulate postoperative delirium superimposed on dementia. Alzheimer's and Dementia, 2020, 16, 734-749.	0.8	73
11	Multivariate MR biomarkers better predict cognitive dysfunction in mouse models of Alzheimer's disease. Magnetic Resonance Imaging, 2019, 60, 52-67.	1.8	16
12	Identifying Vulnerable Brain Networks in Mouse Models of Genetic Risk Factors for Late Onset Alzheimerâ€™s Disease. Frontiers in Neuroinformatics, 2019, 13, 72.	2.5	24
13	P2â€168: IMMUNEâ€REGULATED METABOLIC PATHWAY ANALYSIS IN AT8â€POSITIVE NEURONS USING LASER CAPTURE MICROSCOPY. Alzheimer's and Dementia, 2018, 14, P733.	0.8	0
14	P3â€070: ANALYSIS OF A SPORADIC MOUSE MODEL OF ALZHEIMER'S DISEASE. Alzheimer's and Dementia, 2018, 14, P1091.	0.8	0
15	Speaking out about gender imbalance in invited speakers improves diversity. Nature Immunology, 2017, 18, 475-478.	14.5	81
16	P2â€127: Immuneâ€Mediated Nutrient Deprivation and Metabolic Disruption in an Alzheimer's Disease Mouse Model. Alzheimer's and Dementia, 2016, 12, P660.	0.8	0
17	The fornix provides multiple biomarkers to characterize circuit disruption in a mouse model of Alzheimer's disease. NeuroImage, 2016, 142, 498-511.	4.2	30
18	The effects of the apoE4 genotype on the developing mouse retina. Experimental Eye Research, 2016, 145, 17-25.	2.6	8

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19	Chronic Systemic Immune Dysfunction in African-Americans with Small Vessel-Type Ischemic Stroke. Translational Stroke Research, 2015, 6, 430-436.	4.2	10
20	Arginine Deprivation and Immune Suppression in a Mouse Model of Alzheimer's Disease. Journal of Neuroscience, 2015, 35, 5969-5982.	3.6	147
21	Apolipoprotein E and Mimetics as Targets and Therapeutics for Alzheimerâ€™s Disease. , 2015, , 157-182.		3
22	The impact of human and mouse differences in NOS2 gene expression on the brainâ€™s redox and immune environment. Molecular Neurodegeneration, 2014, 9, 50.	10.8	22
23	mNos2Deletion and HumanNOS2Replacement in Alzheimer Disease Models. Journal of Neuropathology and Experimental Neurology, 2014, 73, 752-769.	1.7	30
24	Microglial-Neuronal Interactions During Neurodegenerative Diseases. Journal of NeuroImmune Pharmacology, 2013, 8, 4-6.	4.1	8
25	Immune Heterogeneity in Neuroinflammation: Dendritic Cells in the Brain. Journal of NeuroImmune Pharmacology, 2013, 8, 145-162.	4.1	47
26	Longitudinal Study of Differential Protein Expression in an Alzheimerâ€™s Mouse Model Lacking Inducible Nitric Oxide Synthase. Journal of Proteome Research, 2013, 12, 4462-4477.	3.7	35
27	Elevated copper in the amyloid plaques and iron in the cortex are observed in mouse models of Alzheimer's disease that exhibit neurodegeneration. Biomedical Spectroscopy and Imaging, 2013, 2, 129-139.	1.2	50
28	Lithium Treatment of APPSwDI/NOS2â^'/â^' Mice Leads to Reduced Hyperphosphorylated Tau, Increased Amyloid Deposition and Altered Inflammatory Phenotype. PLoS ONE, 2012, 7, e31993.	2.5	36
29	Nitric oxideâ€mediated regulation of â€amyloid clearance via alterations of <scp>MMP</scp>â€9/<scp>TIMP</scp>â€1. Journal of Neurochemistry, 2012, 123, 736-749.	3.9	46
30	Human Apolipoprotein E2 Promotes Parenchymal Amyloid Deposition and Neuronal Loss in Vasculotropic Mutant Amyloid-Î² Protein Tg-SwDI Mice. Journal of Alzheimer's Disease, 2012, 31, 359-369.	2.6	7
31	Accelerating drug discovery for Alzheimer's disease: best practices for preclinical animal studies. Alzheimer's Research and Therapy, 2011, 3, 28.	6.2	116
32	Diverse Inflammatory Responses in Transgenic Mouse Models of Alzheimer's Disease and the Effect of Immunotherapy on These Responses. ASN Neuro, 2011, 3, AN20110018.	2.7	40
33	Nitric oxide and redox mechanisms in the immune response. Journal of Leukocyte Biology, 2011, 89, 873-891.	3.3	603
34	Activation of matrix metalloproteinases following anti-Aî² immunotherapy; implications for microhemorrhage occurrence. Journal of Neuroinflammation, 2011, 8, 115.	7.2	32
35	Apolipoprotein E and Peptide Mimetics Modulate Inflammation by Binding the SET Protein and Activating Protein Phosphatase 2A. Journal of Immunology, 2011, 186, 2535-2542.	0.8	104
36	Interaction of NG2⁺ glial progenitors and microglia/macrophages from the injured spinal cord. Glia, 2010, 58, 410-422.	4.9	41

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37	An Apolipoprotein E-Mimetic Stimulates Axonal Regeneration and Remyelination after Peripheral Nerve Injury. Journal of Pharmacology and Experimental Therapeutics, 2010, 334, 106-115.	2.5	65
38	Assessing Activation States in Microglia. CNS and Neurological Disorders - Drug Targets, 2010, 9, 174-191.	1.4	347
39	Enhanced Capillary Amyloid Angiopathy-Associated Pathology in Tg-SwDI Mice With Deleted Nitric Oxide Synthase 2. Stroke, 2010, 41, S135-8.	2.0	16
40	Amyloid Reduction by Amyloid-Â Vaccination Also Reduces Mouse Tau Pathology and Protects from Neuron Loss in Two Mouse Models of Alzheimer's Disease. Journal of Neuroscience, 2009, 29, 7957-7965.	3.6	85
41	Heterogeneity of Microglial Activation in the Innate Immune Response in the Brain. Journal of NeuroImmune Pharmacology, 2009, 4, 399-418.	4.1	739
42	APOE genotype-specific differences in the innate immune response. Neurobiology of Aging, 2009, 30, 1350-1360.	3.1	282
43	Immunotherapy, Vascular Pathology, and Microhemorrhages in Transgenic Mice. CNS and Neurological Disorders - Drug Targets, 2009, 8, 50-64.	1.4	76
44	The chemical biology of nitric oxide: Implications in cellular signaling. Free Radical Biology and Medicine, 2008, 45, 18-31.	2.9	809
45	Progression of Amyloid Pathology to Alzheimer's Disease Pathology in an Amyloid Precursor Protein Transgenic Mouse Model by Removal of Nitric Oxide Synthase 2. Journal of Neuroscience, 2008, 28, 1537-1545.	3.6	172
46	The APOE4 genotype alters the response of microglia and macrophages to 17Î²-estradiol. Neurobiology of Aging, 2008, 29, 1783-1794.	3.1	46
47	Human Apolipoprotein E Redistributes Fibrillar Amyloid Deposition in Tg-SwDI Mice. Journal of Neuroscience, 2008, 28, 5312-5320.	3.6	23
48	Anti-Amyloid-Î² Immunotherapy in Alzheimer's Disease: Relevance of Transgenic Mouse Studies to Clinical Trials. Journal of Alzheimer's Disease, 2008, 15, 555-569.	2.6	96
49	The Effects of NOS2 Gene Deletion on Mice Expressing Mutated Human AÎ²PP. Journal of Alzheimer's Disease, 2008, 15, 571-587.	2.6	81
50	Androgen-Mediated Immune Function Is Altered by the Apolipoprotein E Gene. Endocrinology, 2007, 148, 3383-3390.	2.8	37
51	Expression profiles for macrophage alternative activation genes in AD and in mouse models of AD. Journal of Neuroinflammation, 2006, 3, 27.	7.2	358
52	Advancing the Study of Stroke in Women. Stroke, 2006, 37, 2387-2399.	2.0	96
53	Characterization of NO and Cytokine Production in Immune-Activated Microglia and Peritoneal Macrophages Derived from a Mouse Model Expressing the Human NOS2 Gene on a Mouse NOS2 Knockout Background. Antioxidants and Redox Signaling, 2006, 8, 893-901.	5.4	19
54	Apolipoprotein E-Derived Peptides Ameliorate Clinical Disability and Inflammatory Infiltrates into the Spinal Cord in a Murine Model of Multiple Sclerosis. Journal of Pharmacology and Experimental Therapeutics, 2006, 318, 956-965.	2.5	81

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55	NPY and chronic neurodegenerative disease. , 2006, , 223-244.		3
56	Sex steroids, APOE genotype and the innate immune system. Neurobiology of Aging, 2005, 26, 363-372.	3.1	63
57	APOE genotype-specific differences in human and mouse macrophage nitric oxide production. Journal of Neuroimmunology, 2004, 147, 62-67.	2.3	74
58	Nitric oxide production and regulation of neuronal NOS in tyrosine hydroxylase containing neurons. Experimental Neurology, 2004, 188, 341-350.	4.1	12
59	Redox regulation of neuronal migration in a down syndrome model. Free Radical Biology and Medicine, 2003, 35, 566-575.	2.9	31
60	Compartmentalized Nitrosation and Nitration in Mitochondria. Antioxidants and Redox Signaling, 2003, 5, 349-354.	5.4	25
61	Mitochondria and Nitric Oxide. Antioxidants and Redox Signaling, 2003, 5, 249-250.	5.4	11
62	Heme Proteins and Nitric Oxide (NO): The Neglected, Eloquent Chemistry in NO Redox Signaling and Regulation. Antioxidants and Redox Signaling, 2003, 5, 307-317.	5.4	80
63	Orthogonal properties of the redox siblings nitroxyl and nitric oxide in the cardiovascular system: a novel redox paradigm. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 285, H2264-H2276.	3.2	86
64	An Overview of Reactive Oxygen Species. , 2002, , 679-695.		0
65	Reactive Oxygen Species and Neuronal Function. , 2002, , 569-589.		4
66	Guide for the use of nitric oxide (NO) donors as probes of the chemistry of NO and related redox species in biological systems. Methods in Enzymology, 2002, 359, 84-105.	1.0	66
67	Further evidence for distinct reactive intermediates from nitroxyl and peroxynitrite: effects of buffer composition on the chemistry of Angeli's salt and synthetic peroxynitrite. Archives of Biochemistry and Biophysics, 2002, 401, 134-144.	3.0	78
68	APOE and the regulation of microglial nitric oxide production: a link between genetic risk and oxidative stress. Neurobiology of Aging, 2002, 23, 777-785.	3.1	125
69	Apolipoprotein E isoform mediated regulation of nitric oxide release 1,2 1Guest Editors: Mark A. Smith and George Perry 2This article is part of a series of reviews on â€œCauses and Consequences of Oxidative Stress in Alzheimerâ€™s Disease.â€•The full list of papers may be found on the homepage of the journal.. Free Radical Biology and Medicine, 2002, 32, 1071-1075.	2.9	79
70	ApolipoproteinâEE Alleleâ€Specific Regulation of Nitric Oxide Production. Annals of the New York Academy of Sciences, 2002, 962, 212-225.	3.8	46
71	Mechanisms of the Antioxidant Effects of Nitric Oxide. Antioxidants and Redox Signaling, 2001, 3, 203-213.	5.4	341
72	Slice Cultures for Study of Microglia. , 2001, , 29-37.		0

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73	In Memory of Daniel L. Gilbert - A Radical Spirit. Antioxidants and Redox Signaling, 2001, 3, 1-2.	5.4	0
74	Microglial Contribution to Oxidative Stress in Alzheimer's Disease. Annals of the New York Academy of Sciences, 2000, 899, 292-307.	3.8	81
75	Hypoxia modulates nitric oxide-induced regulation of NMDA receptor currents and neuronal cell death. American Journal of Physiology - Cell Physiology, 1999, 277, C673-C683.	4.6	44
76	Glutamate Acting at NMDA Receptors Stimulates Embryonic Cortical Neuronal Migration. Journal of Neuroscience, 1999, 19, 4449-4461.	3.6	262
77	Function of microglia in organotypic slice cultures. Journal of Neuroscience Research, 1999, 56, 644-651.	2.9	76
78	Function of microglia in organotypic slice cultures. Journal of Neuroscience Research, 1999, 56, 644-651.	2.9	7
79	Ethanol Induced Changes in Superoxide Anion and Nitric Oxide in Cultured Microglia. Alcoholism: Clinical and Experimental Research, 1998, 22, 710-716.	2.4	39
80	Polyribonucleotides induce nitric oxide production by human monocyte-derived macrophages. Journal of Leukocyte Biology, 1997, 62, 369-373.	3.3	42
81	Activated human microglia produce the excitotoxin quinolinic acid. NeuroReport, 1997, 8, 431-434.	1.2	184
82	Modulation of Nitric Oxide Production in Human Macrophages by Apolipoprotein-E and Amyloid-Beta Peptide. Biochemical and Biophysical Research Communications, 1997, 240, 391-394.	2.1	68
83	BIOLOGICAL ACTIVITY OF INTERLEUKIN-10 IN THE CENTRAL NERVOUS SYSTEM. Neurochemistry International, 1997, 30, 433-439.	3.8	27
84	INHIBITION OF MICROGLIAL SUPEROXIDE ANION PRODUCTION BY ISOPROTERENOL AND DEXAMETHASONE**This is one of eight original papers on the subject â€œmicrogliaâ€• Dr Peter Gebicke-Haerter (Dept. Psychiatry, University of Freiburg, Germany) acted as organiser and executive editor in the refereeing of these articles.. Neurochemistry International, 1996, 29, 43-53.	3.8	59
85	Location-dependent artifact for no measurement using multiwell plates. Free Radical Biology and Medicine, 1996, 20, 361-363.	2.9	11
86	Species differences in the generation of reactive oxygen species by microglia. Molecular and Chemical Neuropathology, 1996, 28, 15-20.	1.0	96
87	Induction of nitric oxide in cultured microglia: Evidence for a cytoprotective role. Advances in Neuroimmunology, 1995, 5, 491-503.	1.8	13
88	Protection from oxidation enhances the survival of cultured mesencephalic neurons. Experimental Neurology, 1995, 132, 54-61.	4.1	49
89	Induction of Superoxide Anion and Nitric Oxide Production in Cultured Microglia^a. Annals of the New York Academy of Sciences, 1994, 738, 54-63.	3.8	76
90	Mitogenic effect of neuropeptide Y in rat vascular smooth muscle cells. Peptides, 1993, 14, 263-268.	2.4	112

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91	Characterization of interleukin-1 production by microglia in culture. Brain Research, 1992, 591, 88-93.	2.2	122
92	Enhanced production of superoxide anion by microglia from trisomy 16 mice. Brain Research, 1990, 519, 236-242.	2.2	34
93	The action of hydrogen peroxide on paired pulse and long-term potentiation in the hippocampus. Free Radical Biology and Medicine, 1989, 7, 3-8.	2.9	51
94	An Endogenous Source of the Superoxide Anion in the Central Nervous System. , 1988, 49, 1005-1010.		1
95	Trigeminal responses to thermal stimulation of the oral cavity in rattlesnakes (Crotalus viridis) before and after bilateral anesthetization of the facial pit organs. Brain Research, 1987, 400, 365-370.	2.2	17
96	Production of superoxide anions by a CNS macrophage, the microglia. FEBS Letters, 1987, 223, 284-288.	2.8	558
97	Changes in synaptic transmission produced by hydrogen peroxide. Journal of Free Radicals in Biology & Medicine, 1986, 2, 141-148.	2.1	28
98	The action of oxygen and oxygen at high pressure on inhibitory transmission. Brain Research, 1986, 364, 151-158.	2.2	19
99	Blockade of hyperbaric oxygen induced seizures by excitatory amino acid antagonists. Canadian Journal of Physiology and Pharmacology, 1985, 63, 519-521.	1.4	21
100	An electrophysiological analysis of oxygen and pressure on synaptic transmission. Brain Research, 1982, 251, 221-227.	2.2	23
101	The action of dantrolene sodium on the lobster neuromuscular junction. Comparative Biochemistry and Physiology Part C: Comparative Pharmacology, 1979, 64, 153-156.	0.2	2
102	Depression of glutamate-mediated synaptic transmission by benzyl alcohol. Canadian Journal of Physiology and Pharmacology, 1977, 55, 917-922.	1.4	7
103	Postsynaptic effect of La3+ at the frog neuromuscular junction. Journal of Neurobiology, 1976, 7, 87-91.	3.6	5
104	Absolute Winding Number Differentiates Mouse Spatial Navigation Strategies With Genetic Risk for Alzheimerâ€™s Disease. Frontiers in Neuroscience, 0, 16, .	2.8	2