

Carol A Colton

List of Publications by Year in descending order

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104
papers

8,595
citations

53660

45
h-index

45213

90
g-index

109
all docs

109
docs citations

109
times ranked

11121
citing authors

#	ARTICLE	IF	CITATIONS
1	The chemical biology of nitric oxide: Implications in cellular signaling. <i>Free Radical Biology and Medicine</i> , 2008, 45, 18-31.	1.3	809
2	Heterogeneity of Microglial Activation in the Innate Immune Response in the Brain. <i>Journal of NeuroImmune Pharmacology</i> , 2009, 4, 399-418.	2.1	739
3	Nitric oxide and redox mechanisms in the immune response. <i>Journal of Leukocyte Biology</i> , 2011, 89, 873-891.	1.5	603
4	Production of superoxide anions by a CNS macrophage, the microglia. <i>FEBS Letters</i> , 1987, 223, 284-288.	1.3	558
5	Expression profiles for macrophage alternative activation genes in AD and in mouse models of AD. <i>Journal of Neuroinflammation</i> , 2006, 3, 27.	3.1	358
6	Assessing Activation States in Microglia. <i>CNS and Neurological Disorders - Drug Targets</i> , 2010, 9, 174-191.	0.8	347
7	Mechanisms of the Antioxidant Effects of Nitric Oxide. <i>Antioxidants and Redox Signaling</i> , 2001, 3, 203-213.	2.5	341
8	APOE genotype-specific differences in the innate immune response. <i>Neurobiology of Aging</i> , 2009, 30, 1350-1360.	1.5	282
9	Glutamate Acting at NMDA Receptors Stimulates Embryonic Cortical Neuronal Migration. <i>Journal of Neuroscience</i> , 1999, 19, 4449-4461.	1.7	262
10	Skyline for Small Molecules: A Unifying Software Package for Quantitative Metabolomics. <i>Journal of Proteome Research</i> , 2020, 19, 1447-1458.	1.8	253
11	Activated human microglia produce the excitotoxin quinolinic acid. <i>NeuroReport</i> , 1997, 8, 431-434.	0.6	184
12	Progression of Amyloid Pathology to Alzheimer's Disease Pathology in an Amyloid Precursor Protein Transgenic Mouse Model by Removal of Nitric Oxide Synthase 2. <i>Journal of Neuroscience</i> , 2008, 28, 1537-1545.	1.7	172
13	Arginine Deprivation and Immune Suppression in a Mouse Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2015, 35, 5969-5982.	1.7	147
14	APOE and the regulation of microglial nitric oxide production: a link between genetic risk and oxidative stress. <i>Neurobiology of Aging</i> , 2002, 23, 777-785.	1.5	125
15	Characterization of interleukin-1 production by microglia in culture. <i>Brain Research</i> , 1992, 591, 88-93.	1.1	122
16	Accelerating drug discovery for Alzheimer's disease: best practices for preclinical animal studies. <i>Alzheimer's Research and Therapy</i> , 2011, 3, 28.	3.0	116
17	Mitogenic effect of neuropeptide Y in rat vascular smooth muscle cells. <i>Peptides</i> , 1993, 14, 263-268.	1.2	112
18	Apolipoprotein E and Peptide Mimetics Modulate Inflammation by Binding the SET Protein and Activating Protein Phosphatase 2A. <i>Journal of Immunology</i> , 2011, 186, 2535-2542.	0.4	104

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19	Species differences in the generation of reactive oxygen species by microglia. <i>Molecular and Chemical Neuropathology</i> , 1996, 28, 15-20.	1.0	96
20	Advancing the Study of Stroke in Women. <i>Stroke</i> , 2006, 37, 2387-2399.	1.0	96
21	Anti-Amyloid- β Immunotherapy in Alzheimer's Disease: Relevance of Transgenic Mouse Studies to Clinical Trials. <i>Journal of Alzheimer's Disease</i> , 2008, 15, 555-569.	1.2	96
22	Orthogonal properties of the redox siblings nitroxyl and nitric oxide in the cardiovascular system: a novel redox paradigm. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2003, 285, H2264-H2276.	1.5	86
23	Amyloid Reduction by Amyloid- β Vaccination Also Reduces Mouse Tau Pathology and Protects from Neuron Loss in Two Mouse Models of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2009, 29, 7957-7965.	1.7	85
24	Microglial Contribution to Oxidative Stress in Alzheimer's Disease. <i>Annals of the New York Academy of Sciences</i> , 2000, 899, 292-307.	1.8	81
25	Apolipoprotein E-Derived Peptides Ameliorate Clinical Disability and Inflammatory Infiltrates into the Spinal Cord in a Murine Model of Multiple Sclerosis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 318, 956-965.	1.3	81
26	The Effects of NOS2 Gene Deletion on Mice Expressing Mutated Human A β PP. <i>Journal of Alzheimer's Disease</i> , 2008, 15, 571-587.	1.2	81
27	Speaking out about gender imbalance in invited speakers improves diversity. <i>Nature Immunology</i> , 2017, 18, 475-478.	7.0	81
28	Heme Proteins and Nitric Oxide (NO): The Neglected, Eloquent Chemistry in NO Redox Signaling and Regulation. <i>Antioxidants and Redox Signaling</i> , 2003, 5, 307-317.	2.5	80
29	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 "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, 1071-1075.	1.3	79
30	Further evidence for distinct reactive intermediates from nitroxyl and peroxynitrite: effects of buffer composition on the chemistry of Angeli's salt and synthetic peroxynitrite. <i>Archives of Biochemistry and Biophysics</i> , 2002, 401, 134-144.	1.4	78
31	Function of microglia in organotypic slice cultures. <i>Journal of Neuroscience Research</i> , 1999, 56, 644-651.	1.3	76
32	Induction of Superoxide Anion and Nitric Oxide Production in Cultured Microglia ^a . <i>Annals of the New York Academy of Sciences</i> , 1994, 738, 54-63.	1.8	76
33	Immunotherapy, Vascular Pathology, and Microhemorrhages in Transgenic Mice. <i>CNS and Neurological Disorders - Drug Targets</i> , 2009, 8, 50-64.	0.8	76
34	APOE genotype-specific differences in human and mouse macrophage nitric oxide production. <i>Journal of Neuroimmunology</i> , 2004, 147, 62-67.	1.1	74
35	Neurovascular and immune mechanisms that regulate postoperative delirium superimposed on dementia. <i>Alzheimer's and Dementia</i> , 2020, 16, 734-749.	0.4	73
36	Modulation of Nitric Oxide Production in Human Macrophages by Apolipoprotein-E and Amyloid-Beta Peptide. <i>Biochemical and Biophysical Research Communications</i> , 1997, 240, 391-394.	1.0	68

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37	Guide for the use of nitric oxide (NO) donors as probes of the chemistry of NO and related redox species in biological systems. <i>Methods in Enzymology</i> , 2002, 359, 84-105.	0.4	66
38	An Apolipoprotein E-Mimetic Stimulates Axonal Regeneration and Remyelination after Peripheral Nerve Injury. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010, 334, 106-115.	1.3	65
39	Sex steroids, APOE genotype and the innate immune system. <i>Neurobiology of Aging</i> , 2005, 26, 363-372.	1.5	63
40	INHIBITION OF MICROGLIAL SUPEROXIDE ANION PRODUCTION BY ISOPROTERENOL AND DEXAMETHASONE**This is one of eight original papers on the subject "microglia". Dr Peter Gebicke-Haerter (Dept. Psychiatry, University of Freiburg, Germany) acted as organiser and executive editor in the refereeing of these articles.. <i>Neurochemistry International</i> , 1996, 29, 43-53.	1.9	59
41	The action of hydrogen peroxide on paired pulse and long-term potentiation in the hippocampus. <i>Free Radical Biology and Medicine</i> , 1989, 7, 3-8.	1.3	51
42	Elevated copper in the amyloid plaques and iron in the cortex are observed in mouse models of Alzheimer's disease that exhibit neurodegeneration. <i>Biomedical Spectroscopy and Imaging</i> , 2013, 2, 129-139.	1.2	50
43	Protection from oxidation enhances the survival of cultured mesencephalic neurons. <i>Experimental Neurology</i> , 1995, 132, 54-61.	2.0	49
44	Immune Heterogeneity in Neuroinflammation: Dendritic Cells in the Brain. <i>Journal of NeuroImmune Pharmacology</i> , 2013, 8, 145-162.	2.1	47
45	Apolipoprotein E Allele-Specific Regulation of Nitric Oxide Production. <i>Annals of the New York Academy of Sciences</i> , 2002, 962, 212-225.	1.8	46
46	The APOE4 genotype alters the response of microglia and macrophages to 17 β -estradiol. <i>Neurobiology of Aging</i> , 2008, 29, 1783-1794.	1.5	46
47	Nitric oxide-mediated regulation of amyloid clearance via alterations of MMP-9/TIMP-1. <i>Journal of Neurochemistry</i> , 2012, 123, 736-749.	2.1	46
48	Hypoxia modulates nitric oxide-induced regulation of NMDA receptor currents and neuronal cell death. <i>American Journal of Physiology - Cell Physiology</i> , 1999, 277, C673-C683.	2.1	44
49	Polyribonucleotides induce nitric oxide production by human monocyte-derived macrophages. <i>Journal of Leukocyte Biology</i> , 1997, 62, 369-373.	1.5	42
50	Interaction of NG2 ⁺ glial progenitors and microglia/macrophages from the injured spinal cord. <i>Glia</i> , 2010, 58, 410-422.	2.5	41
51	Diverse Inflammatory Responses in Transgenic Mouse Models of Alzheimer's Disease and the Effect of Immunotherapy on These Responses. <i>ASN Neuro</i> , 2011, 3, AN20110018.	1.5	40
52	Ethanol Induced Changes in Superoxide Anion and Nitric Oxide in Cultured Microglia. <i>Alcoholism: Clinical and Experimental Research</i> , 1998, 22, 710-716.	1.4	39
53	Androgen-Mediated Immune Function Is Altered by the Apolipoprotein E Gene. <i>Endocrinology</i> , 2007, 148, 3383-3390.	1.4	37
54	Lithium Treatment of APPSwDI/NOS2 ^{-/-} Mice Leads to Reduced Hyperphosphorylated Tau, Increased Amyloid Deposition and Altered Inflammatory Phenotype. <i>PLoS ONE</i> , 2012, 7, e31993.	1.1	36

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55	Longitudinal Study of Differential Protein Expression in an Alzheimer's Mouse Model Lacking Inducible Nitric Oxide Synthase. <i>Journal of Proteome Research</i> , 2013, 12, 4462-4477.	1.8	35
56	Enhanced production of superoxide anion by microglia from trisomy 16 mice. <i>Brain Research</i> , 1990, 519, 236-242.	1.1	34
57	Activation of matrix metalloproteinases following anti-A β immunotherapy; implications for microhemorrhage occurrence. <i>Journal of Neuroinflammation</i> , 2011, 8, 115.	3.1	32
58	Redox regulation of neuronal migration in a down syndrome model. <i>Free Radical Biology and Medicine</i> , 2003, 35, 566-575.	1.3	31
59	<i>Nos2</i> Deletion and Human <i>NOS2</i> Replacement in Alzheimer Disease Models. <i>Journal of Neuropathology and Experimental Neurology</i> , 2014, 73, 752-769.	0.9	30
60	The fornix provides multiple biomarkers to characterize circuit disruption in a mouse model of Alzheimer's disease. <i>NeuroImage</i> , 2016, 142, 498-511.	2.1	30
61	Changes in synaptic transmission produced by hydrogen peroxide. <i>Journal of Free Radicals in Biology & Medicine</i> , 1986, 2, 141-148.	2.1	28
62	BIOLOGICAL ACTIVITY OF INTERLEUKIN-10 IN THE CENTRAL NERVOUS SYSTEM. <i>Neurochemistry International</i> , 1997, 30, 433-439.	1.9	27
63	Compartmentalized Nitrosation and Nitration in Mitochondria. <i>Antioxidants and Redox Signaling</i> , 2003, 5, 349-354.	2.5	25
64	Identifying Vulnerable Brain Networks in Mouse Models of Genetic Risk Factors for Late Onset Alzheimer's Disease. <i>Frontiers in Neuroinformatics</i> , 2019, 13, 72.	1.3	24
65	An electrophysiological analysis of oxygen and pressure on synaptic transmission. <i>Brain Research</i> , 1982, 251, 221-227.	1.1	23
66	Human Apolipoprotein E Redistributes Fibrillar Amyloid Deposition in Tg-SwDI Mice. <i>Journal of Neuroscience</i> , 2008, 28, 5312-5320.	1.7	23
67	The impact of human and mouse differences in <i>NOS2</i> gene expression on the brain's redox and immune environment. <i>Molecular Neurodegeneration</i> , 2014, 9, 50.	4.4	22
68	Blockade of hyperbaric oxygen induced seizures by excitatory amino acid antagonists. <i>Canadian Journal of Physiology and Pharmacology</i> , 1985, 63, 519-521.	0.7	21
69	The action of oxygen and oxygen at high pressure on inhibitory transmission. <i>Brain Research</i> , 1986, 364, 151-158.	1.1	19
70	Characterization of NO and Cytokine Production in Immune-Activated Microglia and Peritoneal Macrophages Derived from a Mouse Model Expressing the Human <i>NOS2</i> Gene on a Mouse <i>NOS2</i> Knockout Background. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 893-901.	2.5	19
71	Trigeminal responses to thermal stimulation of the oral cavity in rattlesnakes (<i>Crotalus viridis</i>) before and after bilateral anesthetization of the facial pit organs. <i>Brain Research</i> , 1987, 400, 365-370.	1.1	17
72	Infection and inflammation: New perspectives on Alzheimer's disease. <i>Brain, Behavior, & Immunity - Health</i> , 2022, 22, 100462.	1.3	17

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73	Enhanced Capillary Amyloid Angiopathy-Associated Pathology in Tg-SwDI Mice With Deleted Nitric Oxide Synthase 2. <i>Stroke</i> , 2010, 41, S135-8.	1.0	16
74	Multivariate MR biomarkers better predict cognitive dysfunction in mouse models of Alzheimer's disease. <i>Magnetic Resonance Imaging</i> , 2019, 60, 52-67.	1.0	16
75	Induction of nitric oxide in cultured microglia: Evidence for a cytoprotective role. <i>Advances in Neuroimmunology</i> , 1995, 5, 491-503.	1.8	13
76	Nitric oxide production and regulation of neuronal NOS in tyrosine hydroxylase containing neurons. <i>Experimental Neurology</i> , 2004, 188, 341-350.	2.0	12
77	Location-dependent artifact for no measurement using multiwell plates. <i>Free Radical Biology and Medicine</i> , 1996, 20, 361-363.	1.3	11
78	Mitochondria and Nitric Oxide. <i>Antioxidants and Redox Signaling</i> , 2003, 5, 249-250.	2.5	11
79	Chronic Systemic Immune Dysfunction in African-Americans with Small Vessel-Type Ischemic Stroke. <i>Translational Stroke Research</i> , 2015, 6, 430-436.	2.3	10
80	Microglial-Neuronal Interactions During Neurodegenerative Diseases. <i>Journal of NeuroImmune Pharmacology</i> , 2013, 8, 4-6.	2.1	8
81	The effects of the apoE4 genotype on the developing mouse retina. <i>Experimental Eye Research</i> , 2016, 145, 17-25.	1.2	8
82	Vascular Cellular Adhesion Molecule-1 (VCAM-1) and Memory Impairment in African-Americans after Small Vessel-Type Stroke. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2020, 29, 104646.	0.7	8
83	Depression of glutamate-mediated synaptic transmission by benzyl alcohol. <i>Canadian Journal of Physiology and Pharmacology</i> , 1977, 55, 917-922.	0.7	7
84	Human Apolipoprotein E2 Promotes Parenchymal Amyloid Deposition and Neuronal Loss in Vasculotropic Mutant Amyloid- β 2 Protein Tg-SwDI Mice. <i>Journal of Alzheimer's Disease</i> , 2012, 31, 359-369.	1.2	7
85	Function of microglia in organotypic slice cultures. , 1999, 56, 644.		7
86	Postsynaptic effect of La ³⁺ at the frog neuromuscular junction. <i>Journal of Neurobiology</i> , 1976, 7, 87-91.	3.7	5
87	Capillary Electrophoresis-High Resolution Mass Spectrometry for Measuring In Vivo Arginine Isotope Incorporation in Alzheimer's Disease Mouse Models. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 1448-1458.	1.2	5
88	Reactive Oxygen Species and Neuronal Function. , 2002, , 569-589.		4
89	Likelihood ratio statistics for gene set enrichment in Alzheimer's disease pathways. <i>Alzheimer's and Dementia</i> , 2021, 17, 561-573.	0.4	4
90	Metabolism-Based Gene Differences in Neurons Expressing Hyperphosphorylated AT8 ⁺ Positive (AT8+) Tau in Alzheimer's Disease. <i>ASN Neuro</i> , 2021, 13, 175909142110194.	1.5	4

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91	CVNâ€AD Alzheimer's mice show premature reduction in neurovascular coupling in response to spreading depression and anoxia compared to aged controls. <i>Alzheimer's and Dementia</i> , 2021, 17, 1109-1120.	0.4	3
92	Apolipoprotein E and Mimetics as Targets and Therapeutics for Alzheimerâ€™s Disease. , 2015, , 157-182.		3
93	NPY and chronic neurodegenerative disease. , 2006, , 223-244.		3
94	The action of dantrolene sodium on the lobster neuromuscular junction. <i>Comparative Biochemistry and Physiology Part C: Comparative Pharmacology</i> , 1979, 64, 153-156.	0.2	2
95	Absolute Winding Number Differentiates Mouse Spatial Navigation Strategies With Genetic Risk for Alzheimerâ€™s Disease. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	2
96	An Endogenous Source of the Superoxide Anion in the Central Nervous System. , 1988, 49, 1005-1010.		1
97	Slice Cultures for Study of Microglia. , 2001, , 29-37.		0
98	In Memory of Daniel L. Gilbert - A Radical Spirit. <i>Antioxidants and Redox Signaling</i> , 2001, 3, 1-2.	2.5	0
99	An Overview of Reactive Oxygen Species. , 2002, , 679-695.		0
100	P2â€127: Immuneâ€Mediated Nutrient Deprivation and Metabolic Disruption in an Alzheimer's Disease Mouse Model. <i>Alzheimer's and Dementia</i> , 2016, 12, P660.	0.4	0
101	P2â€168: IMMUNEâ€REGULATED METABOLIC PATHWAY ANALYSIS IN AT8â€POSITIVE NEURONS USING LASER CAPTURE MICROSCOPY. <i>Alzheimer's and Dementia</i> , 2018, 14, P733.	0.4	0
102	P3â€070: ANALYSIS OF A SPORADIC MOUSE MODEL OF ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2018, 14, P1091.	0.4	0
103	Optimizing protocols for white matter tractography in animal models of genetic AD risk. <i>Alzheimer's and Dementia</i> , 2020, 16, e047440.	0.4	0
104	Percutaneous vagus nerve stimulation modulates glia activity and rescues acute AÎ² deposition in a mouse model of delirium superimposed on dementia.. <i>Alzheimer's and Dementia</i> , 2021, 17 Suppl 3, e056571.	0.4	0