Peter J Crack

List of Publications by Year
in descending order

84 papers	6,597 citations	66315 42 h-index	64755 79 g-index
85 all docs	85 docs citations	85 times ranked	10280 citing authors

#	Article	IF	Citations
1	Reactive Oxygen Species Enhance Insulin Sensitivity. Cell Metabolism, 2009, 10, 260-272.	7.2	509
2	Suppressor of cytokine signaling 1 negatively regulates Toll-like receptor signaling by mediating Mal degradation. Nature Immunology, 2006, 7, 148-155.	7.0	468
3	The contribution of astrocytes and microglia to traumatic brain injury. British Journal of Pharmacology, 2016, 173, 692-702.	2.7	447
4	Bacterial membrane vesicles deliver peptidoglycan to NOD1 in epithelial cells. Cellular Microbiology, 2010, 12, 372-385.	1.1	382
5	Reactive oxygen species and the modulation of strokeâ˜†. Free Radical Biology and Medicine, 2005, 38, 1433-1444.	1.3	337
6	The contribution of neuroinflammation to amyloid toxicity in Alzheimer's disease. Journal of Neurochemistry, 2016, 136, 457-474.	2.1	331
7	Neuroinflammation and oxidative stress: Co-conspirators in the pathology of Parkinsonâ€™s disease. Neurochemistry International, 2013, 62, 803-819.	1.9	250
8	The influence of neuroinflammation in Autism Spectrum Disorder. Brain, Behavior, and Immunity, 2019, 79, 75-90.	2.0	214
9	Modulation of Neuro-Inflammation and Vascular Response by Oxidative Stress Following Cerebral Ischemia-Reperfusion Injury. Current Medicinal Chemistry, 2008, 15, 1-14.	1.2	198
10	Inflammation in epileptogenesis after traumatic brain injury. Journal of Neuroinflammation, 2017, 14, 10.	3.1	194
11	Increased infarct size and exacerbated apoptosis in the glutathione peroxidase-1 (Gpx-1) knockout mouse brain in response to ischemia/reperfusion injury. Journal of Neurochemistry, 2001, 78, 1389-1399.	2.1	187
12	COPD and stroke: are systemic inflammation and oxidative stress the missing links?. Clinical Science, 2016, 130, 1039-1050.	1.8	138
13	Type-1 interferon signaling mediates neuro-inflammatory events in models of Alzheimer's disease. Neurobiology of Aging, 2014, 35, 1012-1023.	1.5	120
14	Reduction of cerebral infarct volume by apocynin requires pretreatment and is absent in Nox2â€deficient mice. British Journal of Pharmacology, 2009, 156, 680-688.	2.7	119
15	Tollâ€like receptors in the brain and their potential roles in neuropathology. Immunology and Cell Biology, 2007, 85, 476-480.	1.0	109
16	Neural injury following stroke: are Tollâ€like receptors the link between the immune system and the CNS?. British Journal of Pharmacology, 2010, 160, 1872-1888.	2.7	106
17	STING-mediated type-I interferons contribute to the neuroinflammatory process and detrimental effects following traumatic brain injury. Journal of Neuroinflammation, 2018, 15, 323.	3.1	95
18	Characterisation of neurons with nitric oxide synthase immunoreactivity that project to prevertebral ganglia. Journal of the Autonomic Nervous System, 1995, 52, 107-116.	1.9	91

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19	An imbalance in antioxidant defense affects cellular function: the pathophysiological consequences of a reduction in antioxidant defense in the glutathione peroxidase-1 (Gpx1) knockout mouse. Redox Report, 2003, 8, 69-79.	1.4	85
20	Potential Contribution of NF-Î°B in Neuronal Cell Death in the Glutathione Peroxidase-1 Knockout Mouse in Response to Ischemia-Reperfusion Injury. Stroke, 2006, 37, 1533-1538.	1.0	81
21	Anti-lysophosphatidic acid antibodies improve traumatic brain injury outcomes. Journal of Neuroinflammation, 2014, 11, 37.	3.1	80
22	Glutathione peroxidase-1 protects against cigarette smoke-induced lung inflammation in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 299, L425-L433.	1.3	76
23	A mouse model of spinal and bulbar muscular atrophy. Human Molecular Genetics, 2002, 11, 2103-2111.	1.4	72
24	Lack of glutathione peroxidase-1 exacerbates Aî²-mediated neurotoxicity in cortical neurons. Journal of Neural Transmission, 2006, 113, 645-657.	1.4	71
25	Glutathione peroxidase 1 and glutathione are required to protect mouse astrocytes from iron-mediated hydrogen peroxide toxicity. Journal of Neuroscience Research, 2006, 84, 578-586.	1.3	71
26	Typeâ€1 interferons contribute to the neuroinflammatory response and disease progression of the MPTP mouse model of Parkinson's disease. Glia, 2016, 64, 1590-1604.	2.5	71
27	Absence of glutathione peroxidaseâ€1 exacerbates cerebral ischemiaâ€reperfusion injury by reducing postâ€ischemic microvascular perfusion. Journal of Neurochemistry, 2008, 107, 241-252.	2.1	70
28	Fibroblasts derived from Gpx1 knockout mice display senescent-like features and are susceptible to H2O2-mediated cell death. Free Radical Biology and Medicine, 2004, 36, 53-64.	1.3	67
29	Type-I interferon pathway in neuroinflammation and neurodegeneration: focus on Alzheimerâ€™s disease. Journal of Neural Transmission, 2018, 125, 797-807.	1.4	66
30	Glutathione Peroxidase-1 Reduces Influenza A Virusâ€“Induced Lung Inflammation. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 17-26.	1.4	65
31	The association of metalloendopeptidase EC 3.4.24.15 at the extracellular surface of the AtT-20 cell plasma membrane. Brain Research, 1999, 835, 113-124.	1.1	62
32	IMPACT OF OXIDATIVE STRESS ON NEURONAL SURVIVAL. Clinical and Experimental Pharmacology and Physiology, 2004, 31, 397-406.	0.9	62
33	Nanofibrous scaffolds releasing a small molecule BDNF-mimetic for the re-direction of endogenous neuroblast migration in the brain. Biomaterials, 2014, 35, 2692-2712.	5.7	59
34	Deletion of the type-1 interferon receptor in APPSWE/PS1Î”E9 mice preserves cognitive function and alters glial phenotype. Acta Neuropathologica Communications, 2016, 4, 72.	2.4	58
35	Glutathione Peroxidase-1 Contributes to the Neuroprotection Seen in the Superoxide Dismutase-1 Transgenic Mouse in Response to Ischemia/Reperfusion Injury. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 19-22.	2.4	55
36	Diminished Akt phosphorylation in neurons lacking glutathione peroxidase-1 (Gpx1) leads to increased susceptibility to oxidative stress-induced cell death. Journal of Neurochemistry, 2005, 92, 283-293.	2.1	52

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37	Overexpression of the chromosome 21 transcription factor Ets2 induces neuronal apoptosis. Neurobiology of Disease, 2003, 14, 349-356.	2.1	49
38	Targeted Disruption of SPI3 / Serpinb6 Does Not Result in Developmental or Growth Defects, Leukocyte Dysfunction, or Susceptibility to Stroke. Molecular and Cellular Biology, 2004, 24, 4075-4082.	1.1	49
39	Ceruloplasmin and Î²-amyloid precursor protein confer neuroprotection in traumatic brain injury and lower neuronal iron. Free Radical Biology and Medicine, 2014, 69, 331-337.	1.3	49
40	Ablation of Type-1 IFN Signaling in Hematopoietic Cells Confers Protection Following Traumatic Brain Injury. ENeuro, 2016, 3, ENEURO.0128-15.2016.	0.9	48
41	Glutathione peroxidase 1 and a high cellular glutathione concentration are essential for effective organic hydroperoxide detoxification in astrocytes. Glia, 2006, 54, 873-879.	2.5	46
42	A nonfibrin macromolecular cofactor for tPA-mediated plasmin generation following cellular injury. Blood, 2009, 114, 1937-1946.	0.6	46
43	Mice Lacking Glutathione Peroxidase-1 Activity Show Increased Tunel Staining and an Accelerated Inflammatory Response in Brain Following a Cold-Induced Injury. Experimental Neurology, 2002, 177, 9-20.	2.0	44
44	Effects of GDNFâ€Loaded Injectable Gelatinâ€Based Hydrogels on Endogenous Neural Progenitor Cell Migration. Advanced Healthcare Materials, 2014, 3, 761-774.	3.9	44
45	Compartment- and context-specific changes in tissue-type plasminogen activator (tPA) activity following brain injury and pharmacological stimulation. Laboratory Investigation, 2011, 91, 1079-1091.	1.7	39
46	Targeting high-mobility group box protein 1 (HMGB1) in pediatric traumatic brain injury: Chronic neuroinflammatory, behavioral, and epileptogenic consequences. Experimental Neurology, 2019, 320, 112979.	2.0	38
47	Ageâ€dependent release of highâ€mobility group box proteinâ€1 and cellular neuroinflammation after traumatic brain injury in mice. Journal of Comparative Neurology, 2019, 527, 1102-1117.	0.9	37
48	The genomic profile of the cerebral cortex after closed head injury in mice: effects of minocycline. Journal of Neural Transmission, 2009, 116, 1-12.	1.4	36
49	Migration and Differentiation of Neural Stem Cells Diverted From the Subventricular Zone by an Injectable Self-Assembling Î²-Peptide Hydrogel. Frontiers in Bioengineering and Biotechnology, 2019, 7, 315.	2.0	31
50	Glutathione Peroxidase-1 Primes Pro-Inflammatory Cytokine Production after LPS Challenge In Vivo. PLoS ONE, 2012, 7, e33172.	1.1	30
51	The Complexity of the cGAS-STING Pathway in CNS Pathologies. Frontiers in Neuroscience, 2021, 15, 621501.	1.4	28
52	The involvement of microglia in Alzheimer's disease: a new dog in the fight. British Journal of Pharmacology, 2019, 176, 3533-3543.	2.7	27
53	Akt phosphorylation and NFÎºB activation are counterregulated under conditions of oxidative stress. Experimental Cell Research, 2004, 300, 463-475.	1.2	24
54	Glutathione peroxidase-1 contributes to the protection of glutamine synthetase in astrocytes during oxidative stress. Journal of Neural Transmission, 2006, 113, 1145-1155.	1.4	24

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55	The Ïƒ1 receptor agonist 4-PPBP elicits ERK1/2 phosphorylation in primary neurons: A possible mechanism of neuroprotective action. Neuropharmacology, 2010, 59, 416-424.	2.0	23
56	Levosimendan preserves the contractile responsiveness of hypoxic human myocardium via mitochondrial KATP channel and potential pERK 1/2 activation. European Journal of Pharmacology, 2011, 655, 59-66.	1.7	22
57	Type-I interferon signalling through IFNAR1 plays a deleterious role in the outcome after stroke. Neurochemistry International, 2017, 108, 472-480.	1.9	22
58	Insulin-Regulated Aminopeptidase Deficiency Provides Protection against Ischemic Stroke in Mice. Journal of Neurotrauma, 2012, 29, 1243-1248.	1.7	21
59	Soluble amyloid triggers a myeloid differentiation factor 88 and interferon regulatory factor 7 dependent neuronal type-1 interferon response in vitro. Journal of Neuroinflammation, 2015, 12, 71.	3.1	21
60	Typeâ€I interferons mediate the neuroinflammatory response and neurotoxicity induced by rotenone. Journal of Neurochemistry, 2017, 141, 75-85.	2.1	21
61	Abrogation of type-I interferon signalling alters the microglial response to Aî²1â€"42. Scientific Reports, 2020, 10, 3153.	1.6	21
62	A global transcriptomic view of the multifaceted role of glutathione peroxidase-1 in cerebral ischemicâ€"reperfusion injury. Free Radical Biology and Medicine, 2011, 50, 736-748.	1.3	20
63	Glutathione Peroxidase-1 Contributes to the Neuroprotection Seen in the Superoxide Dismutase-1 Transgenic Mouse in Response to Ischemia/Reperfusion Injury. Journal of Cerebral Blood Flow and Metabolism, 2003, , 19-22.	2.4	19
64	MyD88 Is a Critical Regulator of Hematopoietic Cell-Mediated Neuroprotection Seen after Stroke. PLoS ONE, 2013, 8, e57948.	1.1	18
65	The use of bioactive matrices in regenerative therapies for traumatic brain injury. Acta Biomaterialia, 2020, 102, 1-12.	4.1	17
66	An altered glial phenotype in the NL3R451C mouse model of autism. Scientific Reports, 2020, 10, 14492.	1.6	17
67	Thimerosal blocks stimulated but not basal release of endotheliumâ€derived relaxing factor (EDRF) in dog isolated coronary artery. British Journal of Pharmacology, 1992, 107, 566-572.	2.7	16
68	Evidence for the recruitment of autophagic vesicles in human brain after stroke. Neurochemistry International, 2016, 96, 62-68.	1.9	16
69	Robust Gene Dysregulation in Alzheimer's Disease Brains. Journal of Alzheimer's Disease, 2014, 41, 587-597.	1.2	15
70	Type-1 interferons contribute to oxygen glucose deprivation induced neuro-inflammation in BE(2)M17 human neuroblastoma cells. Journal of Neuroinflammation, 2014, 11, 43.	3.1	14
71	Perturbation of the transcriptome: implications of the innate immune system in Alzheimer's disease. Current Opinion in Pharmacology, 2016, 26, 47-53.	1.7	14
72	The involvement of nitric oxide in the secretion of Î²-endorphin from the pituitary intermediate lobe of the rat. Brain Research, 1997, 761, 113-120.	1.1	11

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73	Synthesis of a hypoxia-targeted conjugate of the cardioprotective agent 3â€²,4â€²-dihydroxyflavonol and evaluation of its ability to reduce ischaemia/reperfusion injury. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 5102-5106.	1.0	11
74	Weight-Bearing Locomotion in the Developing Opossum, Monodelphis domestica following Spinal Transection: Remodeling of Neuronal Circuits Caudal to Lesion. PLoS ONE, 2013, 8, e71181.	1.1	10
75	High-throughput screening for small molecule inhibitors of the type-I interferon signaling pathway. Acta Pharmaceutica Sinica B, 2018, 8, 889-899.	5.7	7
76	STING-Mediated Autophagy Is Protective against H2O2-Induced Cell Death. International Journal of Molecular Sciences, 2020, 21, 7059.	1.8	7
77	Biomaterial Strategies for Restorative Therapies in Parkinsonâ€™s Disease. ACS Chemical Neuroscience, 2021, 12, 4224-4235.	1.7	7
78	Divergent Roles of Glutathione Peroxidase-1 (Gpx1) in Regulation of Leukocyte-Endothelial Cell Interactions in the Inflamed Cerebral Microvasculature. Microcirculation, 2011, 18, 12-23.	1.0	5
79	Metal chaperones: a novel therapeutic strategy for brain injury?. Brain Injury, 2019, 33, 305-312.	0.6	5
80	Genetic Modulators of Traumatic Brain Injury in Animal Models and the Impact of Sex-Dependent Effects. Journal of Neurotrauma, 2020, 37, 706-723.	1.7	5
81	Oxidation of Iron under Physiologically Relevant Conditions in Biological Fluids from Healthy and Alzheimerâ€™s Disease Subjects. ACS Chemical Neuroscience, 2017, 8, 731-736.	1.7	3
82	Purification, characterisation and distribution of ovine neuronal nitric oxide synthase. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1998, 120, 727-733.	0.7	2
83	The Role of the Toll-Like Receptors in Neuropathology. NeuroImmune Biology, 2010, , 67-77.	0.2	0
84	Cover Image, Volume 527, Issue 5. Journal of Comparative Neurology, 2019, 527, C1.	0.9	0