

Shang-Der Chen

List of Publications by Year in descending order

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98
papers

8,808
citations

94433

37
h-index

43889

91
g-index

98
all docs

98
docs citations

98
times ranked

19868
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Diverse roles of mitochondria in ischemic stroke. <i>Redox Biology</i> , 2018, 16, 263-275.	9.0	280
3	Roles of Oxidative Stress, Apoptosis, PGC-1 β and Mitochondrial Biogenesis in Cerebral Ischemia. <i>International Journal of Molecular Sciences</i> , 2011, 12, 7199-7215.	4.1	273
4	Effects of long-term antiepileptic drug monotherapy on vascular risk factors and atherosclerosis. <i>Epilepsia</i> , 2012, 53, 120-128.	5.1	162
5	More Insight into BDNF against Neurodegeneration: Anti-Apoptosis, Anti-Oxidation, and Suppression of Autophagy. <i>International Journal of Molecular Sciences</i> , 2017, 18, 545.	4.1	147
6	Resveratrol Partially Prevents Rotenone-Induced Neurotoxicity in Dopaminergic SH-SY5Y Cells through Induction of Heme Oxygenase-1 Dependent Autophagy. <i>International Journal of Molecular Sciences</i> , 2014, 15, 1625-1646.	4.1	144
7	The value of serial plasma nuclear and mitochondrial DNA levels in patients with acute ischemic stroke. <i>Clinica Chimica Acta</i> , 2011, 412, 476-479.	1.1	134
8	Mitochondrial transfer from Wharton's jelly-derived mesenchymal stem cells to mitochondria-defective cells recaptures impaired mitochondrial function. <i>Mitochondrion</i> , 2015, 22, 31-44.	3.4	94
9	Protective effects of S-nitrosoglutathione against amyloid β -peptide neurotoxicity. <i>Free Radical Biology and Medicine</i> , 2005, 38, 938-949.	2.9	87
10	The Overcrowded Crossroads: Mitochondria, Alpha-Synuclein, and the Endo-Lysosomal System Interaction in Parkinson's Disease. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5312.	4.1	78
11	Mitochondrial DNA Coding and Control Region Variants as Genetic Risk Factors for Type 2 Diabetes. <i>Diabetes</i> , 2012, 61, 2642-2651.	0.6	68
12	Association between a common mitochondrial DNA D-loop polycytosine variant and alteration of mitochondrial copy number in human peripheral blood cells. <i>Journal of Medical Genetics</i> , 2010, 47, 723-728.	3.2	67
13	Inhibition of the MEK/ERK pathway reduces microglial activation and interleukin-1-beta expression in spinal cord ischemia/reperfusion injury in rats. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2007, 133, 934-941.	0.8	62
14	Induction of sestrin2 as an endogenous protective mechanism against amyloid beta-peptide neurotoxicity in primary cortical culture. <i>Experimental Neurology</i> , 2014, 253, 63-71.	4.1	60
15	Promoter Region Methylation and Reduced Expression of Thrombospondin-1 after Oxygen-Glucose Deprivation in Murine Cerebral Endothelial Cells. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 1519-1526.	4.3	58
16	Levels and value of platelet activation markers in different subtypes of acute non-cardio-embolic ischemic stroke. <i>Thrombosis Research</i> , 2009, 124, 213-218.	1.7	58
17	Peripheral blood mitochondrial DNA content and dysregulation of glucose metabolism. <i>Diabetes Research and Clinical Practice</i> , 2009, 83, 94-99.	2.8	57
18	Contribution of nitric oxide, superoxide anion, and peroxynitrite to activation of mitochondrial apoptotic signaling in hippocampal CA3 subfield following experimental temporal lobe status epilepticus. <i>Epilepsia</i> , 2009, 50, 731-746.	5.1	56

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19	Anti-apoptotic and anti-oxidative mechanisms of minocycline against sphingomyelinase/ceramide neurotoxicity: implication in Alzheimer's disease and cerebral ischemia. <i>Free Radical Research</i> , 2012, 46, 940-950.	3.3	55
20	Peroxisome proliferator-activated receptors β /mitochondrial uncoupling protein 2 signaling protects against seizure-induced neuronal cell death in the hippocampus following experimental status epilepticus. <i>Journal of Neuroinflammation</i> , 2012, 9, 184.	7.2	54
21	Protective effects of peroxisome proliferator-activated receptors β coactivator 1 α against neuronal cell death in the hippocampal CA1 subfield after transient global ischemia. <i>Journal of Neuroscience Research</i> , 2010, 88, 605-613.	2.9	53
22	Resveratrol provides neuroprotective effects through modulation of mitochondrial dynamics and ERK1/2 regulated autophagy. <i>Free Radical Research</i> , 2018, 52, 1371-1386.	3.3	53
23	Mitochondrial Dysfunction and Oxidative Stress Promote Apoptotic Cell Death in the Striatum via Cytochrome c/ Caspase-3 Signaling Cascade Following Chronic Rotenone Intoxication in Rats. <i>International Journal of Molecular Sciences</i> , 2012, 13, 8722-8739.	4.1	51
24	Association of Mitochondrial Deoxyribonucleic Acid 16189 Variant (T \rightarrow C Transition) with Metabolic Syndrome in Chinese Adults. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005, 90, 5037-5040.	3.6	50
25	The potential role of mitochondrial dysfunction in seizure-associated cell death in the hippocampus and epileptogenesis. <i>Journal of Bioenergetics and Biomembranes</i> , 2010, 42, 461-465.	2.3	50
26	Activation of calcium/calmodulin-dependent protein kinase IV and peroxisome proliferator-activated receptor β coactivator 1 α signaling pathway protects against neuronal injury and promotes mitochondrial biogenesis in the hippocampal CA1 subfield after transient global ischemia. <i>Journal of Neuroscience Research</i> , 2010, 88, 3144-3154.	2.9	50
27	Activation of GLP-1 Receptor Enhances Neuronal Base Excision Repair via PI3K-AKT-Induced Expression of Apurinic/Apyrimidinic Endonuclease 1. <i>Theranostics</i> , 2016, 6, 2015-2027.	10.0	49
28	Effects of rosiglitazone on global ischemia-induced hippocampal injury and expression of mitochondrial uncoupling protein 2. <i>Biochemical and Biophysical Research Communications</i> , 2006, 351, 198-203.	2.1	48
29	Upregulation of nitric oxide synthase II contributes to apoptotic cell death in the hippocampal CA3 subfield via a cytochrome c/caspase-3 signaling cascade following induction of experimental temporal lobe status epilepticus in the rat. <i>Neuropharmacology</i> , 2007, 52, 1263-1273.	4.1	48
30	Nuclear Factor-kappaB-Dependent Sestrin2 Induction Mediates the Antioxidant Effects of BDNF Against Mitochondrial Inhibition in Rat Cortical Neurons. <i>Molecular Neurobiology</i> , 2016, 53, 4126-4142.	4.0	48
31	A Common Mitochondrial DNA Variant and Increased Body Mass Index as Associated Factors for Development of Type 2 Diabetes: Additive Effects of Genetic and Environmental Factors. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007, 92, 235-239.	3.6	47
32	Upregulation of Interleukin-33 in obstructive renal injury. <i>Biochemical and Biophysical Research Communications</i> , 2016, 473, 1026-1032.	2.1	47
33	The value of leukocyte adhesion molecules in patients after ischemic stroke. <i>Journal of Neurology</i> , 2009, 256, 1296-1302.	3.6	46
34	Seizure-Induced Oxidative Stress in Status Epilepticus: Is Antioxidant Beneficial?. <i>Antioxidants</i> , 2020, 9, 1029.	5.1	45
35	Sonic hedgehog mediates BDNF-induced neuroprotection against mitochondrial inhibitor 3-nitropropionic acid. <i>Biochemical and Biophysical Research Communications</i> , 2009, 385, 112-117.	2.1	43
36	Mitochondrial Transfer from Wharton's Jelly Mesenchymal Stem Cell to MERRF Cybrid Reduces Oxidative Stress and Improves Mitochondrial Bioenergetics. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-22.	4.0	41

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37	ATM Gene Regulates Oxygen-Glucose Deprivation-Induced Nuclear Factor- κ B DNA-Binding Activity and Downstream Apoptotic Cascade in Mouse Cerebrovascular Endothelial Cells. <i>Stroke</i> , 2002, 33, 2471-2477.	2.0	40
38	Increased Oxidative Damage with Altered Antioxidative Status in Type 2 Diabetic Patients Harboring the 16189 T to C Variant of Mitochondrial DNA. <i>Annals of the New York Academy of Sciences</i> , 2005, 1042, 64-69.	3.8	40
39	Resveratrol Promotes Mitochondrial Biogenesis and Protects against Seizure-Induced Neuronal Cell Damage in the Hippocampus Following Status Epilepticus by Activation of the PGC-1 α Signaling Pathway. <i>International Journal of Molecular Sciences</i> , 2019, 20, 998.	4.1	40
40	Emerging Roles of Sestrins in Neurodegenerative Diseases: Counteracting Oxidative Stress and Beyond. <i>Journal of Clinical Medicine</i> , 2019, 8, 1001.	2.4	39
41	Heat shock protein 70 protects against seizure-induced neuronal cell death in the hippocampus following experimental status epilepticus via inhibition of nuclear factor- κ B activation-induced nitric oxide synthase II expression. <i>Neurobiology of Disease</i> , 2014, 62, 241-249.	4.4	38
42	Erythropoietin and sonic hedgehog mediate the neuroprotective effects of brain-derived neurotrophic factor against mitochondrial inhibition. <i>Neurobiology of Disease</i> , 2010, 40, 146-154.	4.4	37
43	Roles of p62 in BDNF-dependent autophagy suppression and neuroprotection against mitochondrial dysfunction in rat cortical neurons. <i>Journal of Neurochemistry</i> , 2017, 140, 845-861.	3.9	37
44	Mitochondrial dysfunction and biogenesis in the pathogenesis of Parkinson's disease. <i>Chang Gung Medical Journal</i> , 2009, 32, 589-99.	0.7	37
45	Tooth-brushing epilepsy with ictal orgasms. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2004, 13, 179-182.	2.0	36
46	Clinical significance of serological biomarkers and neuropsychological performances in patients with temporal lobe epilepsy. <i>BMC Neurology</i> , 2012, 12, 15.	1.8	36
47	Roles of PTEN-induced putative kinase 1 and dynamin-related protein 1 in transient global ischemia-induced hippocampal neuronal injury. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 397-403.	2.1	35
48	Rapid Amygdala Kindling Causes Motor Seizure and Comorbidity of Anxiety- and Depression-Like Behaviors in Rats. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 129.	2.0	35
49	Combination Therapy for Ischemic Stroke. <i>American Journal of Cardiovascular Drugs</i> , 2002, 2, 303-313.	2.2	34
50	c-Jun-dependent sulfiredoxin induction mediates BDNF protection against mitochondrial inhibition in rat cortical neurons. <i>Neurobiology of Disease</i> , 2012, 46, 450-462.	4.4	32
51	Sirtuin 1 Regulates Mitochondrial Biogenesis and Provides an Endogenous Neuroprotective Mechanism Against Seizure-Induced Neuronal Cell Death in the Hippocampus Following Status Epilepticus. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3588.	4.1	32
52	Carbamoylating chemoresistance induced by cobalt pretreatment in C6 glioma cells: putative roles of hypoxia-inducible factor-1. <i>British Journal of Pharmacology</i> , 2004, 141, 988-996.	5.4	31
53	Injury severity and cell death mechanisms: effects of concomitant hypovolemic hypotension on spinal cord ischemia-reperfusion in rats. <i>Experimental Neurology</i> , 2004, 185, 120-132.	4.1	31
54	Emerging Roles of Sonic Hedgehog in Adult Neurological Diseases: Neurogenesis and Beyond. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2423.	4.1	31

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55	Roles of Sestrin2 and Ribosomal Protein S6 in Transient Global Ischemia-Induced Hippocampal Neuronal Injury. <i>International Journal of Molecular Sciences</i> , 2015, 16, 26406-26416.	4.1	30
56	Mitochondrial <scp>DNA</scp> variants as genetic risk factors for Parkinson disease. <i>European Journal of Neurology</i> , 2016, 23, 1289-1300.	3.3	30
57	The Creation of Cybrids Harboring Mitochondrial Haplogroups in the Taiwanese Population of Ethnic Chinese Background: An Extensive <i>In Vitro</i> Tool for the Study of Mitochondrial Genomic Variations. <i>Oxidative Medicine and Cellular Longevity</i> , 2012, 2012, 1-13.	4.0	29
58	Neuroprotective mechanisms of brain-derived neurotrophic factor against 3- α -nitropropionic acid toxicity: therapeutic implications for Huntington's disease. <i>Annals of the New York Academy of Sciences</i> , 2010, 1201, 8-12.	3.8	28
59	Gly482Ser polymorphism in the peroxisome proliferator-activated receptor β coactivator 1 gene is associated with oxidative stress and abdominal obesity. <i>Metabolism: Clinical and Experimental</i> , 2010, 59, 581-586.	3.4	27
60	Mitochondrial Transfer of Wharton's Jelly Mesenchymal Stem Cells Eliminates Mutation Burden and Rescues Mitochondrial Bioenergetics in Rotenone-Stressed MELAS Fibroblasts. <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-17.	4.0	27
61	Oncostatin M-dependent Mcl-1 induction mediated by JAK1/2-STAT1/3 and CREB contributes to bioenergetic improvements and protective effects against mitochondrial dysfunction in cortical neurons. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 2306-2325.	4.1	26
62	The association of statin therapy and high-sensitivity C-reactive protein level for predicting clinical outcome in acute non-cardioembolic ischemic stroke. <i>Clinica Chimica Acta</i> , 2012, 413, 1861-1865.	1.1	25
63	Peroxisome proliferator-activated receptor-gamma dependent pathway reduces the phosphorylation of dynamin-related protein 1 and ameliorates hippocampal injury induced by global ischemia in rats. <i>Journal of Biomedical Science</i> , 2016, 23, 44.	7.0	25
64	Transcriptional upregulation of nitric oxide synthase II by nuclear factor κ B promotes apoptotic neuronal cell death in the hippocampus following experimental status epilepticus. <i>Journal of Neuroscience Research</i> , 2010, 88, 1898-1907.	2.9	24
65	Renin inhibitor aliskiren exerts neuroprotection against amyloid beta-peptide toxicity in rat cortical neurons. <i>Neurochemistry International</i> , 2012, 61, 369-377.	3.8	24
66	Lamotrigine ameliorates seizures and psychiatric comorbidity in a rat model of spontaneous absence epilepsy. <i>Epilepsia</i> , 2012, 53, 2005-2014.	5.1	23
67	Pituitary apoplexy with intracerebral hemorrhage simulating rupture of an anterior cerebral artery aneurysm. <i>World Neurosurgery</i> , 1988, 29, 322-325.	1.3	22
68	Pravastatin Attenuates Ceramide-Induced Cytotoxicity in Mouse Cerebral Endothelial Cells with HIF-1 Activation and VEGF Upregulation. <i>Annals of the New York Academy of Sciences</i> , 2005, 1042, 357-364.	3.8	21
69	Dynamin-Related Protein 1 Promotes Mitochondrial Fission and Contributes to The Hippocampal Neuronal Cell Death Following Experimental Status Epilepticus. <i>CNS Neuroscience and Therapeutics</i> , 2016, 22, 988-999.	3.9	21
70	The potential of drug repurposing combined with reperfusion therapy in cerebral ischemic stroke: A supplementary strategy to endovascular thrombectomy. <i>Life Sciences</i> , 2019, 236, 116889.	4.3	19
71	Mah-Jong-induced epilepsy: a special reflex epilepsy in Chinese society. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2005, 14, 19-22.	2.0	18
72	Preservation of mitochondrial integrity and energy metabolism during experimental status epilepticus leads to neuronal apoptotic cell death in the hippocampus of the rat. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2009, 18, 420-428.	2.0	16

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73	Statin pre-treatment is associated with lower platelet activity and favorable outcome in patients with acute non-cardio-embolic ischemic stroke. <i>Critical Care</i> , 2011, 15, R163.	5.8	16
74	Neuroprotective mechanisms of minocycline against sphingomyelinase/ceramide toxicity: Roles of Bcl-2 and thioredoxin. <i>Free Radical Biology and Medicine</i> , 2011, 50, 710-721.	2.9	16
75	Peroxisome Proliferator-Activated Receptor δ Coactivator 1 α Activates Vascular Endothelial Growth Factor That Protects Against Neuronal Cell Death Following Status Epilepticus through PI3K/AKT and MEK/ERK Signaling. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7247.	4.1	16
76	Protective effects of lipopolysaccharide preconditioning against nitric oxide neurotoxicity. <i>Journal of Neuroscience Research</i> , 2008, 86, 1277-1289.	2.9	15
77	The Emerging Role of GLP-1 Receptors in DNA Repair: Implications in Neurological Disorders. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1861.	4.1	15
78	Emerging Roles of Inhibitor of Differentiation-1 in Alzheimer's Disease: Cell Cycle Reentry and Beyond. <i>Cells</i> , 2020, 9, 1746.	4.1	15
79	Two Birds One Stone: The Neuroprotective Effect of Antidiabetic Agents on Parkinson Disease Focus on Sodium-Glucose Cotransporter 2 (SGLT2) Inhibitors. <i>Antioxidants</i> , 2021, 10, 1935.	5.1	15
80	Effect of intracranial administration of ethosuximide in rats with spontaneous or pentylenetetrazol-induced spike-wave discharges. <i>Epilepsia</i> , 2011, 52, 1311-1318.	5.1	13
81	Serum Levels of Soluble Triggering Receptor Expressed on Myeloid Cells-1 Associated with the Severity and Outcome of Acute Ischemic Stroke. <i>Journal of Clinical Medicine</i> , 2021, 10, 61.	2.4	13
82	Game-related seizures presenting with two types of clinical features. <i>Seizure: the Journal of the British Epilepsy Association</i> , 2006, 15, 98-105.	2.0	12
83	Single nucleotide polymorphisms in the mitochondrial control region are associated with metabolic phenotypes and oxidative stress. <i>Gene</i> , 2013, 531, 370-376.	2.2	12
84	Neuroprotective Synergy of N-Methyl-D-Aspartate Receptor Antagonist (MK801) and Protein Synthesis Inhibitor (Cycloheximide) on Spinal Cord Ischemia-Reperfusion Injury in Rats. <i>Journal of Neurotrauma</i> , 2003, 20, 195-206.	3.4	11
85	Quality Matters? The Involvement of Mitochondrial Quality Control in Cardiovascular Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 636295.	3.7	11
86	Nuclear factor- κ B-regulated cyclooxygenase-2 expression in surgery-associated paraspinal muscle injury in rats. <i>Journal of Neurosurgery: Spine</i> , 2003, 98, 181-187.	1.7	10
87	Circulating MicroRNAs from Serum Exosomes May Serve as a Putative Biomarker in the Diagnosis and Treatment of Patients with Focal Cortical Dysplasia. <i>Cells</i> , 2020, 9, 1867.	4.1	10
88	Prognostic factors and therapeutic outcome of isolated symptomatic middle cerebral artery stenosis. <i>European Journal of Neurology</i> , 2005, 12, 519-526.	3.3	9
89	Serial Change in Platelet Activation Markers With Aspirin and Clopidogrel After Acute Ischemic Stroke. <i>Clinical Neuropharmacology</i> , 2010, 33, 40-45.	0.7	9
90	The Neurotrophic Function of Glucagon-Like Peptide-1 Promotes Human Neuroblastoma Differentiation via the PI3K-AKT Axis. <i>Biology</i> , 2020, 9, 348.	2.8	9

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91	Septic cavernous sinus thrombosis due to <i>Streptococcus constellatus</i> infection. <i>Journal of the Formosan Medical Association</i> , 2003, 102, 733-6.	1.7	9
92	Mitochondrial dysfunctions in leukoencephalopathy with brainstem and spinal cord involvement and lactate elevation (LBSL). <i>PLoS ONE</i> , 2019, 14, e0224173.	2.5	8
93	Encephalopathy and Acute Axonal Sensorimotor Polyneuropathy Following Acute Pancreatitis: A Case Report and Review of the Literature. <i>Pancreas</i> , 2005, 30, 285-287.	1.1	7
94	The p53/NF-kappaB-dependent induction of sestrin2 by amyloid-beta peptides exerts antioxidative actions in neurons. <i>Free Radical Biology and Medicine</i> , 2021, 169, 36-61.	2.9	5
95	Risk of Microangiopathy in Patients with Epilepsy under Long-term Antiepileptic Drug Therapy. <i>Frontiers in Neurology</i> , 2018, 9, 113.	2.4	4
96	S-Nitrosoglutathione and Hypoxia-Inducible Factor-1 Confer Chemoresistance against Carbamoylating Cytotoxicity of BCNU in Rat C6 Glioma Cells. <i>Annals of the New York Academy of Sciences</i> , 2005, 1042, 229-234.	3.8	3
97	Potential Roles of Sestrin2 in Alzheimer's Disease: Antioxidation, Autophagy Promotion, and Beyond. <i>Biomedicines</i> , 2021, 9, 1308.	3.2	3
98	DYSREGULATION OF Ca ²⁺ MOVEMENT IN PLATELETS FROM PATIENTS WITH ACUTE ISCHAEMIC STROKE. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2009, 36, 380-385.	1.9	2