

Turgay Dalkara

List of Publications by Citations

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138
papers

8,028
citations

40
h-index

89
g-index

143
ext. papers

9,005
ext. citations

6.4
avg, IF

5.99
L-index

#	Paper	IF	Citations
138	Mechanisms, challenges and opportunities in stroke. <i>Nature Reviews Neuroscience</i> , 2003 , 4, 399-415	13.5	1363
137	Pericyte contraction induced by oxidative-nitrative stress impairs capillary reflow despite successful opening of an occluded cerebral artery. <i>Nature Medicine</i> , 2009 , 15, 1031-7	50.5	471
136	Suppression of cortical spreading depression in migraine prophylaxis. <i>Annals of Neurology</i> , 2006 , 59, 652-661	6.1	440
135	What is a pericyte?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016 , 36, 451-5	7.3	321
134	Spreading depression triggers headache by activating neuronal Panx1 channels. <i>Science</i> , 2013 , 339, 1092-5	33.3	318
133	Development and brain delivery of chitosan-PEG nanoparticles functionalized with the monoclonal antibody OX26. <i>Bioconjugate Chemistry</i> , 2005 , 16, 1503-11	6.3	247
132	Reperfusion-induced oxidative/nitrative injury to neurovascular unit after focal cerebral ischemia. <i>Stroke</i> , 2004 , 35, 1449-53	6.7	241
131	Loss of NeuN immunoreactivity after cerebral ischemia does not indicate neuronal cell loss: a cautionary note. <i>Brain Research</i> , 2004 , 1015, 169-74	3.7	196
130	Prolonged therapeutic window for ischemic brain damage caused by delayed caspase activation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998 , 18, 1071-6	7.3	187
129	Deciphering migraine mechanisms: clues from familial hemiplegic migraine genotypes. <i>Annals of Neurology</i> , 2004 , 55, 276-80	9.4	185
128	Cerebral small vessel disease: Capillary pathways to stroke and cognitive decline. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016 , 36, 302-25	7.3	164
127	Squalenoyl adenosine nanoparticles provide neuroprotection after stroke and spinal cord injury. <i>Nature Nanotechnology</i> , 2014 , 9, 1054-1062	28.7	163
126	Role of endothelial nitric oxide generation and peroxynitrite formation in reperfusion injury after focal cerebral ischemia. <i>Stroke</i> , 2000 , 31, 1974-80; discussion 1981	6.7	159
125	Mitochondrial complex I and IV activities in leukocytes from patients with parkin mutations. <i>Movement Disorders</i> , 2004 , 19, 544-8	7	156
124	Brain microvascular pericytes in health and disease. <i>Acta Neuropathologica</i> , 2011 , 122, 1-9	14.3	155
123	Apoptotic and necrotic death mechanisms are concomitantly activated in the same cell after cerebral ischemia. <i>Stroke</i> , 2004 , 35, 2189-94	6.7	154
122	The complex role of nitric oxide in the pathophysiology of focal cerebral ischemia. <i>Brain Pathology</i> , 1994 , 4, 49-57	6	140

121	A nanomedicine transports a peptide caspase-3 inhibitor across the blood-brain barrier and provides neuroprotection. <i>Journal of Neuroscience</i> , 2009 , 29, 13761-9	6.6	139
120	VEGF protects brain against focal ischemia without increasing blood-brain permeability when administered intracerebroventricularly. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005 , 25, 1111-8	7.3	136
119	Pinealectomy aggravates and melatonin administration attenuates brain damage in focal ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999 , 19, 511-6	7.3	136
118	Can restoring incomplete microcirculatory reperfusion improve stroke outcome after thrombolysis?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 2091-9	7.3	135
117	Migraine aura pathophysiology: the role of blood vessels and microembolisation. <i>Lancet Neurology</i> , 2010 , 9, 309-17	24.1	126
116	Endothelial nitric oxide synthase-dependent cerebral blood flow augmentation by L-arginine after chronic statin treatment. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000 , 20, 709-17	7.3	123
115	Capillary pericytes express β -smooth muscle actin, which requires prevention of filamentous-actin depolymerization for detection. <i>ELife</i> , 2018 , 7,	8.9	119
114	Cerebral microvascular pericytes and neurogliovascular signaling in health and disease. <i>Brain Research</i> , 2015 , 1623, 3-17	3.7	91
113	Persistent defect in transmitter release and synapsin phosphorylation in cerebral cortex after transient moderate ischemic injury. <i>Stroke</i> , 2002 , 33, 1369-75	6.7	87
112	Acute plasmalemma permeability and protracted clearance of injured cells after controlled cortical impact in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2008 , 28, 490-505	7.3	82
111	Systemically administered brain-targeted nanoparticles transport peptides across the blood-brain barrier and provide neuroprotection. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015 , 35, 469-75	7.3	76
110	Microvascular protection is essential for successful neuroprotection in stroke. <i>Journal of Neurochemistry</i> , 2012 , 123 Suppl 2, 2-11	6	75
109	Validity and reliability of the Turkish Migraine Disability Assessment (MIDAS) questionnaire. <i>Headache</i> , 2004 , 44, 786-93	4.2	62
108	Mechanisms of motor dysfunction after transient MCA occlusion: persistent transmission failure in cortical synapses is a major determinant. <i>Stroke</i> , 1998 , 29, 1988-93; discussion 1994	6.7	61
107	Neuroinformatics: the integration of shared databases and tools towards integrative neuroscience. <i>Journal of Integrative Neuroscience</i> , 2002 , 1, 117-28	1.5	58
106	Astrocytes are more resistant to focal cerebral ischemia than neurons and die by a delayed necrosis. <i>Brain Pathology</i> , 2009 , 19, 630-41	6	57
105	Formulation and in vitro-in vivo evaluation of buccoadhesive morphine sulfate tablets. <i>Pharmaceutical Research</i> , 1994 , 11, 231-6	4.5	52
104	Occlusion of the MCA by an intraluminal filament may cause disturbances in the hippocampal blood flow due to anomalies of circle of Willis and filament thickness. <i>Brain Research</i> , 1999 , 822, 260-4	3.7	49

103	Synergistic protective effect of caspase inhibitors and bFGF against brain injury induced by transient focal ischaemia. <i>British Journal of Pharmacology</i> , 2001 , 133, 345-50	8.6	48
102	Neuroscience data and tool sharing: a legal and policy framework for neuroinformatics. <i>Neuroinformatics</i> , 2003 , 1, 149-65	3.2	45
101	Thrombotic distal middle cerebral artery occlusion produced by topical FeCl(3) application: a novel model suitable for intravital microscopy and thrombolysis studies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 1452-60	7.3	44
100	Lysosomal rupture, necroapoptotic interactions and potential crosstalk between cysteine proteases in neurons shortly after focal ischemia. <i>Neurobiology of Disease</i> , 2010 , 40, 293-302	7.5	44
99	Inadequate brain glycogen or sleep increases spreading depression susceptibility. <i>Annals of Neurology</i> , 2018 , 83, 61-73	9.4	41
98	Preparation and in vitro evaluation of bFGF-loaded chitosan nanoparticles. <i>Drug Delivery</i> , 2007 , 14, 525-9		37
97	Treatment of malignant gliomas with mitoxantrone-loaded poly (lactide-co-glycolide) microspheres. <i>Neurosurgery</i> , 2006 , 59, 1296-302; discussion 1302-3	3.2	32
96	Mechanisms of NO neurotoxicity. <i>Progress in Brain Research</i> , 1998 , 118, 231-9	2.9	32
95	Glycine is required for NMDA receptor activation: electrophysiological evidence from intact rat hippocampus. <i>Brain Research</i> , 1992 , 576, 197-202	3.7	32
94	Is the cell death in mesial temporal sclerosis apoptotic?. <i>Epilepsia</i> , 2003 , 44, 778-84	6.4	31
93	Neurovascular coupling during cortical spreading depolarization and -depression. <i>Stroke</i> , 2015 , 46, 1392-401	4.9	30
92	Alpha-synuclein aggregation induced by brief ischemia negatively impacts neuronal survival in vivo: a study in [A30P]alpha-synuclein transgenic mouse. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 913-23	7.3	30
91	Compartmental changes in expression of c-Fos and FosB proteins in intact and dopamine-depleted striatum after chronic apomorphine treatment. <i>Brain Research</i> , 1999 , 825, 104-14	3.7	30
90	Transport of a caspase inhibitor across the blood-brain barrier by chitosan nanoparticles. <i>Methods in Enzymology</i> , 2012 , 508, 253-69	1.7	29
89	Altered mechanisms of motor-evoked potential generation after transient focal cerebral ischemia in the rat: implications for transcranial magnetic stimulation. <i>Brain Research</i> , 2000 , 873, 26-33	3.7	29
88	Murine Sialidase Neu3 facilitates GM2 degradation and bypass in mouse model of Tay-Sachs disease. <i>Experimental Neurology</i> , 2018 , 299, 26-41	5.7	28
87	Paradoxical air microembolism induces cerebral bioelectrical abnormalities and occasionally headache in patent foramen ovale patients with migraine. <i>Journal of the American Heart Association</i> , 2012 , 1, e001735	6	28
86	Small Vessels Are a Big Problem in Neurodegeneration and Neuroprotection. <i>Frontiers in Neurology</i> , 2019 , 10, 889	4.1	27

85	Modelling headache and migraine and its pharmacological manipulation. <i>British Journal of Pharmacology</i> , 2014 , 171, 4575-94	8.6	26
84	Chronic daily administration of selegiline and EGb 761 increases brain's resistance to ischemia in mice. <i>Brain Research</i> , 2001 , 917, 174-81	3.7	26
83	Behçet Disease serum is immunoreactive to neurofilament medium which share common epitopes to bacterial HSP-65, a putative trigger. <i>Journal of Autoimmunity</i> , 2017 , 84, 87-96	15.5	25
82	Statin pre-treatment protects brain against focal cerebral ischemia in diabetic mice. <i>Journal of Surgical Research</i> , 2007 , 138, 254-8	2.5	25
81	Association of nitric oxide production and apoptosis in a model of experimental nephropathy. <i>Nephrology Dialysis Transplantation</i> , 2001 , 16, 32-8	4.3	24
80	Transcorneal stimulation of trigeminal nerve afferents to increase cerebral blood flow in rats with cerebral vasospasm: a noninvasive method to activate the trigeminovascular reflex. <i>Journal of Neurosurgery</i> , 2002 , 97, 1179-83	3.2	24
79	Retinal ischemia induces ESM α -mediated capillary pericyte contraction coincident with perivascular glycogen depletion. <i>Acta Neuropathologica Communications</i> , 2019 , 7, 134	7.3	23
78	Neurotoxic and neuroprotective roles of nitric oxide in cerebral ischaemia. <i>International Review of Neurobiology</i> , 1997 , 40, 319-36	4.4	22
77	Effects of cerebral ischemia on N-methyl-D-aspartate and dihydropyridine-sensitive calcium currents. An electrophysiological study in the rat hippocampus in situ. <i>Stroke</i> , 1996 , 27, 127-33	6.7	22
76	Advances in stroke neuroprotection: hyperoxia and beyond. <i>Neuroimaging Clinics of North America</i> , 2005 , 15, 697-720, xii-xiii	3	19
75	Nipecotinic acid, an uptake blocker, prevents fading of the gamma-aminobutyric acid effect. <i>Brain Research</i> , 1986 , 366, 314-9	3.7	19
74	Improving Microcirculatory Reperfusion Reduces Parenchymal Oxygen Radical Formation and Provides Neuroprotection. <i>Stroke</i> , 2018 , 49, 1267-1275	6.7	18
73	Cell death and survival mechanisms are concomitantly active in the hippocampus of patients with mesial temporal sclerosis. <i>Neuroscience</i> , 2013 , 237, 56-65	3.9	18
72	Facilitatory effects of dexamethasone on neuromuscular transmission. <i>Experimental Neurology</i> , 1987 , 95, 116-25	5.7	18
71	Protective role of 27bp repeat polymorphism in intron 4 of eNOS gene in lacunar infarction. <i>Free Radical Research</i> , 2009 , 43, 272-9	4	17
70	Combination of Paclitaxel and R-flurbiprofen loaded PLGA nanoparticles suppresses glioblastoma growth on systemic administration. <i>International Journal of Pharmaceutics</i> , 2020 , 578, 119076	6.5	15
69	Plasma 3-nitrotyrosine estimates the reperfusion-induced cerebrovascular stress, whereas matrix metalloproteinases mainly reflect plasma activity: a study in patients treated with thrombolysis or endovascular recanalization. <i>Journal of Neurochemistry</i> , 2012 , 123 Suppl 2, 138-47	6	15
68	A new model of transient focal cerebral ischemia for inducing selective neuronal necrosis. <i>Brain Research Bulletin</i> , 2009 , 78, 226-31	3.9	15

67	Microembolism of single cortical arterioles can induce spreading depression and ischemic injury; a potential trigger for migraine and related MRI lesions. <i>Brain Research</i> , 2018 , 1679, 84-90	3.7	15
66	How does fasting trigger migraine? A hypothesis. <i>Current Pain and Headache Reports</i> , 2013 , 17, 368	4.2	14
65	Optical coherence tomography imaging of capillary reperfusion after ischemic stroke. <i>Applied Optics</i> , 2016 , 55, 9526-9531	0.2	14
64	Stress modulates cortical excitability via β_2 adrenergic and glucocorticoid receptors: As assessed by spreading depression. <i>Experimental Neurology</i> , 2018 , 307, 45-51	5.7	14
63	Statin potentiates human platelet eNOS activity without enhancing eNOS mRNA and protein levels. <i>Cerebrovascular Diseases</i> , 2008 , 26, 190-8	3.2	13
62	Pericytes: A Novel Target to Improve Success of Recanalization Therapies. <i>Stroke</i> , 2019 , 50, 2985-2991	6.7	12
61	Pericytes in Ischemic Stroke. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1147, 189-213	3.6	12
60	Angiographic Microcirculatory Obstructions Distal to Occlusion Signify Poor Outcome after Endovascular Treatment for Acute Ischemic Stroke. <i>Translational Stroke Research</i> , 2018 , 9, 44-50	7.8	12
59	Preparation and characterization of biocompatible chitosan nanoparticles for targeted brain delivery of peptides. <i>Methods in Molecular Biology</i> , 2012 , 846, 321-32	1.4	12
58	Monitoring cellular edema at single-neuron level by electrical resistance measurements. <i>Journal of Neuroscience Methods</i> , 1997 , 72, 175-81	3	12
57	Iontophoretic studies on rat hippocampus with some novel GABA antagonists. <i>Life Sciences</i> , 1986 , 39, 415-22	6.8	12
56	The influence of N-desmethylclozapine and clozapine on recognition memory and BDNF expression in hippocampus. <i>Brain Research Bulletin</i> , 2011 , 84, 144-50	3.9	11
55	Changes in the expression of selenoproteins in mesial temporal lobe epilepsy patients. <i>Cellular and Molecular Neurobiology</i> , 2009 , 29, 1223-31	4.6	11
54	F-actin polymerization contributes to pericyte contractility in retinal capillaries. <i>Experimental Neurology</i> , 2020 , 332, 113392	5.7	10
53	Poloxamer-188 and citicoline provide neuronal membrane integrity and protect membrane stability in cortical spreading depression. <i>International Journal of Neuroscience</i> , 2015 , 125, 941-6	2	10
52	Preparation and Characterization of Biocompatible Chitosan Nanoparticles for Targeted Brain Delivery of Peptides. <i>Methods in Molecular Biology</i> , 2018 , 1727, 443-454	1.4	10
51	Brain Peptides for the Treatment of Neuropsychiatric Disorders. <i>Current Pharmaceutical Design</i> , 2018 , 24, 3905-3917	3.3	9
50	Right internal carotid artery occlusion during intravenous thrombolysis for left middle cerebral artery occlusion. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2009 , 18, 74-7	2.8	8

49	High dose anticholinergic therapy (biperiden) in dystonia. <i>Clinical Neurology and Neurosurgery</i> , 1991 , 93, 35-7	2	7
48	Pericyte morphology and function. <i>Histology and Histopathology</i> , 2021 , 36, 633-643	1.4	7
47	The effect of carotid artery stenting on capillary transit time heterogeneity in patients with carotid artery stenosis. <i>European Stroke Journal</i> , 2018 , 3, 263-271	5.6	7
46	Role of Pericytes in Neurovascular Unit and Stroke. <i>Springer Series in Translational Stroke Research</i> , 2016 , 25-43	0.1	6
45	Cyclosporine A-induced acute hepatotoxicity in guinea pigs is associated with endothelin-mediated decrease in local hepatic blood flow. <i>Life Sciences</i> , 2011 , 88, 753-60	6.8	6
44	Glutamate and glycine induce a negative wave on hippocampal field response through NMDA receptors. <i>Brain Research</i> , 1990 , 514, 293-9	3.7	6
43	Metabolomic Estimation of the Diagnosis and Onset Time of Permanent and Transient Cerebral Ischemia. <i>Molecular Neurobiology</i> , 2018 , 55, 6193-6200	6.2	4
42	Formulation, bioavailability, and pharmacokinetics of sustained-release potassium chloride tablets. <i>Pharmaceutical Research</i> , 1991 , 8, 1313-7	4.5	4
41	Analyses of the Turkish National Intravenous Thrombolysis Registry. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2016 , 25, 1041-1047	2.8	3
40	Ischemic Stroke: Basic Pathophysiology and Neuroprotective Strategies 2011 , 1-24		3
39	Acute idiopathic demyelinating polyneuropathy: passive transfer to mice by immunoglobulin. <i>NeuroReport</i> , 1990 , 1, 145-8	1.7	3
38	Parenchymal neuroinflammatory signaling and dural neurogenic inflammation in migraine. <i>Journal of Headache and Pain</i> , 2021 , 22, 138	8.8	3
37	Nitric Oxide and the Cerebral Circulation 1997 , 96-98		3
36	The Role of Nitric Oxide in Cerebral Ischemia 1997 , 207-208		3
35	KCl-induced cortical spreading depression waves more heterogeneously propagate than optogenetically-induced waves in lissencephalic brain: an analysis with optical flow tools. <i>Scientific Reports</i> , 2020 , 10, 12793	4.9	3
34	Brain glycogen metabolism: A possible link between sleep disturbances, headache and depression. <i>Sleep Medicine Reviews</i> , 2021 , 59, 101449	10.2	3
33	Overview of extracellular vesicle characterization techniques and introduction to combined reflectance and fluorescence confocal microscopy to distinguish extracellular vesicle subpopulations.. <i>NeuroPhotonics</i> , 2022 , 9, 021903	3.9	3
32	Lessons from Familial Hemiplegic Migraine and Cortical Spreading Depression 2017 , 251-265		2

31	Opportunities for Collective Wisdom in Stroke Research. <i>Cerebrovascular Diseases</i> , 1997 , 7, 313-314	3.2	2
30	Glutamate, without GABA antagonists, induces synchronized discharges in intact hippocampus via NMDA receptors. <i>Brain Research</i> , 1989 , 498, 123-30	3.7	2
29	Author response: Capillary pericytes express β -smooth muscle actin, which requires prevention of filamentous-actin depolymerization for detection 2018 ,		2
28	Apoptosis in Cerebral Ischemia 2004 , 855-866		2
27	Assessment of pain in mouse facial images 2016 ,		2
26	Nuclear expansion and pore opening are instant signs of neuronal hypoxia and can identify poorly fixed brains. <i>Scientific Reports</i> , 2018 , 8, 14770	4.9	2
25	Widespread brain parenchymal HMGB1 and NF- κ B neuroinflammatory responses upon cortical spreading depolarization in familial hemiplegic migraine type 1 mice. <i>Neurobiology of Disease</i> , 2021 , 156, 105424	7.5	2
24	Animal Models of Migraine Aura 2017 , 321-345		1
23	Data of ascending cortical vein occlusion induced spreading depression. <i>Data in Brief</i> , 2018 , 18, 1462-1465		1
22	Cerebral Microcirculation: An Introduction 2015 , 655-680		1
21	Response: Does Apoptosis-necrosis Dichotomy Exist in the Human Brain or in our Minds?. <i>Epilepsia</i> , 2003 , 44, 1607-1608	6.4	1
20	Contractile apparatus in CNS capillary pericytes.. <i>Neurophotonics</i> , 2022 , 9, 021904	3.9	1
19	Ion Channel Dysfunction and Neuroinflammation in Migraine and Depression. <i>Frontiers in Pharmacology</i> , 2021 , 12, 777607	5.6	1
18	Nitric Oxide and Cerebrovascular Regulation 1995 , 189-194		1
17	Genetics of Monogenic and Complex Migraine 2017 , 233-250		
16	Mathematical Modeling of Human Cortical Spreading Depression 2017 , 285-305		
15	Tools for High-Resolution in vivo Imaging of Cellular and Molecular Mechanisms in Cortical Spreading Depression and Spreading Depolarization 2017 , 307-320		
14	Physiology of the Meningeal Sensory Pathway 2017 , 31-47		

- 13 Visceral Pain **2017**, 91-106
- 12 Meningeal Neurogenic Inflammation and Dural Mast Cells in Migraine Pain **2017**, 107-123
- 11 Sensitization and Photophobia in Migraine **2017**, 125-138
- 10 Data of indirect immunofluorescence labeling of the mouse brain sections with sera from SLE and MS patients. *Data in Brief*, **2017**, 15, 170-173 1.2
- 9 Physiology and Pathophysiology of Cerebral Microcirculation **2014**, 1-31
- 8 Apoptosis and Related Mechanisms in Cerebral Ischemia **2011**, 107-121
- 7 Reply to: Pericyte constriction after stroke: the jury is still out *Nature Medicine*, **2010**, 16, 960-960 50.5
- 6 Rapid Response of Myasthenic Ocular Signs to Ivlg Treatment. *Neuro-Ophthalmology*, **2008**, 32, 249-252 0.9
- 5 Ischemic Stroke: Basic Pathophysiology and Neuroprotective Strategies **2006**, 1-26
- 4 Intrathymic injection of D-penicillamine does not induce myasthenia-like disorder in the mouse and rat. *Muscle and Nerve*, **1992**, 15, 1299-300 3.4
- 3 Height and nerve conduction. *Muscle and Nerve*, **1993**, 16, 562-3 3.4
- 2 Use of Mutant Mice to Elucidate Neuroprotective and Neurotoxic Actions of Nitric Oxide in Cerebral Ischemia **2000**, 687-694
- 1 Pericytes in Retinal Ischemia. *Pancreatic Islet Biology*, **2021**, 125-144 0.4