

Turgay Dalkara

List of Publications by Year in descending order

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129
papers

9,935
citations

70961

41
h-index

35952

97
g-index

143
all docs

143
docs citations

143
times ranked

12157
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms, challenges and opportunities in stroke. <i>Nature Reviews Neuroscience</i> , 2003, 4, 399-414.	4.9	1,584
2	Pericyte contraction induced by oxidative-nitrative stress impairs capillary reflow despite successful opening of an occluded cerebral artery. <i>Nature Medicine</i> , 2009, 15, 1031-1037.	15.2	631
3	Suppression of cortical spreading depression in migraine prophylaxis. <i>Annals of Neurology</i> , 2006, 59, 652-661.	2.8	508
4	What is a pericyte?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 451-455.	2.4	481
5	Spreading Depression Triggers Headache by Activating Neuronal Panx1 Channels. <i>Science</i> , 2013, 339, 1092-1095.	6.0	411
6	Development and Brain Delivery of Chitosan ⁺ PEG Nanoparticles Functionalized with the Monoclonal Antibody OX26. <i>Bioconjugate Chemistry</i> , 2005, 16, 1503-1511.	1.8	279
7	Reperfusion-Induced Oxidative/Nitrative Injury to Neurovascular Unit After Focal Cerebral Ischemia. <i>Stroke</i> , 2004, 35, 1449-1453.	1.0	260
8	Loss of NeuN immunoreactivity after cerebral ischemia does not indicate neuronal cell loss: a cautionary note. <i>Brain Research</i> , 2004, 1015, 169-174.	1.1	239
9	Cerebral small vessel disease: Capillary pathways to stroke and cognitive decline. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 302-325.	2.4	211
10	Deciphering migraine mechanisms: Clues from familial hemiplegic migraine genotypes. <i>Annals of Neurology</i> , 2004, 55, 276-280.	2.8	207
11	Squalenoyl adenosine nanoparticles provide neuroprotection after stroke and spinal cord injury. <i>Nature Nanotechnology</i> , 2014, 9, 1054-1062.	15.6	207
12	Prolonged Therapeutic Window for Ischemic Brain Damage Caused by Delayed Caspase Activation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1998, 18, 1071-1076.	2.4	199
13	Can Restoring Incomplete Microcirculatory Reperfusion Improve Stroke Outcome after Thrombolysis?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 2091-2099.	2.4	192
14	Mitochondrial complex I and IV activities in leukocytes from patients with parkin mutations. <i>Movement Disorders</i> , 2004, 19, 544-548.	2.2	189
15	Capillary pericytes express α -smooth muscle actin, which requires prevention of filamentous-actin depolymerization for detection. <i>ELife</i> , 2018, 7, .	2.8	185
16	Brain microvascular pericytes in health and disease. <i>Acta Neuropathologica</i> , 2011, 122, 1-9.	3.9	183
17	Apoptotic and Necrotic Death Mechanisms Are Concomitantly Activated in the Same Cell After Cerebral Ischemia. <i>Stroke</i> , 2004, 35, 2189-2194.	1.0	174
18	Role of Endothelial Nitric Oxide Generation and Peroxynitrite Formation in Reperfusion Injury After Focal Cerebral Ischemia. <i>Stroke</i> , 2000, 31, 1974-1981.	1.0	169

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19	A Nanomedicine Transports a Peptide Caspase-3 Inhibitor across the Blood-Brain Barrier and Provides Neuroprotection. <i>Journal of Neuroscience</i> , 2009, 29, 13761-13769.	1.7	169
20	Migraine aura pathophysiology: the role of blood vessels and microembolisation. <i>Lancet Neurology</i> , The, 2010, 9, 309-317.	4.9	163
21	The Complex Role of Nitric Oxide in the Pathophysiology of Focal Cerebral Ischemia. <i>Brain Pathology</i> , 1994, 4, 49-57.	2.1	161
22	Pinealectomy Aggravates and Melatonin Administration Attenuates Brain Damage in Focal Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 511-516.	2.4	150
23	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, 1111-1118.	2.4	149
24	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, 709-717.	2.4	134
25	Cerebral microvascular pericytes and neurogliovascular signaling in health and disease. <i>Brain Research</i> , 2015, 1623, 3-17.	1.1	111
26	Persistent Defect in Transmitter Release and Synapsin Phosphorylation in Cerebral Cortex After Transient Moderate Ischemic Injury. <i>Stroke</i> , 2002, 33, 1369-1375.	1.0	102
27	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, 469-475.	2.4	97
28	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.	2.4	95
29	Microvascular protection is essential for successful neuroprotection in stroke. <i>Journal of Neurochemistry</i> , 2012, 123, 2-11.	2.1	93
30	Validity and Reliability of the Turkish Migraine Disability Assessment (MIDAS) Questionnaire. <i>Headache</i> , 2004, 44, 786-793.	1.8	82
31	NEUROINFORMATICS: THE INTEGRATION OF SHARED DATABASES AND TOOLS TOWARDS INTEGRATIVE NEUROSCIENCE. <i>Journal of Integrative Neuroscience</i> , 2002, 01, 117-128.	0.8	77
32	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, 1452-1460.	2.4	71
33	Mechanisms of Motor Dysfunction After Transient MCA Occlusion: Persistent Transmission Failure in Cortical Synapses Is a Major Determinant. <i>Stroke</i> , 1998, 29, 1988-1994.	1.0	68
34	Formulation and in vitro-in vivo evaluation of buccoadhesive morphine sulfate tablets. <i>Pharmaceutical Research</i> , 1994, 11, 231-236.	1.7	65
35	Astrocytes are More Resistant to Focal Cerebral Ischemia Than Neurons and Die by a Delayed Necrosis. <i>Brain Pathology</i> , 2009, 19, 630-641.	2.1	65
36	Inadequate brain glycogen or sleep increases spreading depression susceptibility. <i>Annals of Neurology</i> , 2018, 83, 61-73.	2.8	58

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37	Synergistic protective effect of caspase inhibitors and bFGF against brain injury induced by transient focal ischaemia. <i>British Journal of Pharmacology</i> , 2001, 133, 345-350.	2.7	55
38	Neuroscience data and tool sharing. <i>Neuroinformatics</i> , 2003, 1, 149-165.	1.5	54
39	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, 260-264.	1.1	53
40	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.	2.1	51
41	Murine Sialidase Neu3 facilitates GM2 degradation and bypass in mouse model of Tay-Sachs disease. <i>Experimental Neurology</i> , 2018, 299, 26-41.	2.0	50
42	Retinal ischemia induces $\hat{\pm}$ -SMA-mediated capillary pericyte contraction coincident with perivascular glycogen depletion. <i>Acta Neuropathologica Communications</i> , 2019, 7, 134.	2.4	44
43	Preparation and In Vitro Evaluation of bFGF-Loaded Chitosan Nanoparticles. <i>Drug Delivery</i> , 2007, 14, 525-529.	2.5	42
44	Alpha-Synuclein Aggregation Induced by Brief Ischemia Negatively Impacts Neuronal Survival <i>in vivo</i> : A Study in [A30P]alpha-Synuclein Transgenic Mouse. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 913-923.	2.4	42
45	Small Vessels Are a Big Problem in Neurodegeneration and Neuroprotection. <i>Frontiers in Neurology</i> , 2019, 10, 889.	1.1	42
46	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.	1.6	39
47	Neurovascular Coupling During Cortical Spreading Depolarization and "Depression. <i>Stroke</i> , 2015, 46, 1392-1401.	1.0	39
48	TREATMENT OF MALIGNANT GLIOMAS WITH MITOXANTRONE-LOADED POLY (LACTIDE-CO-GLYCOLIDE) MICROSPHERES. <i>Neurosurgery</i> , 2006, 59, 1296-1303.	0.6	37
49	Modelling headache and migraine and its pharmacological manipulation. <i>British Journal of Pharmacology</i> , 2014, 171, 4575-4594.	2.7	37
50	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.	3.0	37
51	Chapter 16 Mechanisms of NO neurotoxicity. <i>Progress in Brain Research</i> , 1998, 118, 231-239.	0.9	35
52	Is the Cell Death in Mesial Temporal Sclerosis Apoptotic?. <i>Epilepsia</i> , 2003, 44, 778-784.	2.6	34
53	Glycine is required for NMDA receptor activation: electrophysiological evidence from intact rat hippocampus. <i>Brain Research</i> , 1992, 576, 197-202.	1.1	33
54	Transport of a Caspase Inhibitor Across the Blood-Brain Barrier by Chitosan Nanoparticles. <i>Methods in Enzymology</i> , 2012, 508, 253-269.	0.4	33

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55	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.	1.1	32
56	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, 104-114.	1.1	31
57	Chronic daily administration of selegiline and EGb 761 increases brain's resistance to ischemia in mice. <i>Brain Research</i> , 2001, 917, 174-181.	1.1	31
58	Improving Microcirculatory Reperfusion Reduces Parenchymal Oxygen Radical Formation and Provides Neuroprotection. <i>Stroke</i> , 2018, 49, 1267-1275.	1.0	30
59	Parenchymal neuroinflammatory signaling and dural neurogenic inflammation in migraine. <i>Journal of Headache and Pain</i> , 2021, 22, 138.	2.5	30
60	Chapter 14 Neurotoxic and Neuroprotective Roles of Nitric Oxide in Cerebral Ischaemia. <i>International Review of Neurobiology</i> , 1996, 40, 319-336.	0.9	29
61	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, 1179-1183.	0.9	29
62	Association of nitric oxide production and apoptosis in a model of experimental nephropathy. <i>Nephrology Dialysis Transplantation</i> , 2001, 16, 32-38.	0.4	28
63	How Does Fasting Trigger Migraine? A Hypothesis. <i>Current Pain and Headache Reports</i> , 2013, 17, 368.	1.3	26
64	Pericytes. <i>Stroke</i> , 2019, 50, 2985-2991.	1.0	26
65	F-actin polymerization contributes to pericyte contractility in retinal capillaries. <i>Experimental Neurology</i> , 2020, 332, 113392.	2.0	26
66	Combination of Paclitaxel and R-flurbiprofen loaded PLGA nanoparticles suppresses glioblastoma growth on systemic administration. <i>International Journal of Pharmaceutics</i> , 2020, 578, 119076.	2.6	26
67	Statin Pre-Treatment Protects Brain Against Focal Cerebral Ischemia in Diabetic Mice. <i>Journal of Surgical Research</i> , 2007, 138, 254-258.	0.8	25
68	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.	1.1	23
69	Effects of Cerebral Ischemia on N -Methyl- d -Aspartate and Dihydropyridine-Sensitive Calcium Currents. <i>Stroke</i> , 1996, 27, 127-133.	1.0	23
70	Advances in Stroke Neuroprotection: Hyperoxia and Beyond. <i>Neuroimaging Clinics of North America</i> , 2005, 15, 697-720.	0.5	22
71	Pericytes in Ischemic Stroke. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1147, 189-213.	0.8	21
72	Facilitatory effects of dexamethasone on neuromuscular transmission. <i>Experimental Neurology</i> , 1987, 95, 116-125.	2.0	20

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73	Brain glycogen metabolism: A possible link between sleep disturbances, headache and depression. <i>Sleep Medicine Reviews</i> , 2021, 59, 101449.	3.8	20
74	Nipecotic acid, an uptake blocker, prevents fading of the \hat{I}^3 -aminobutyric acid effect. <i>Brain Research</i> , 1986, 366, 314-319.	1.1	19
75	Stress modulates cortical excitability via $\hat{I}^{\pm 2}$ adrenergic and glucocorticoid receptors: As assessed by spreading depression. <i>Experimental Neurology</i> , 2018, 307, 45-51.	2.0	19
76	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.	1.7	19
77	Protective role of 27bp repeat polymorphism in intron 4 of eNOS gene in lacunar infarction. <i>Free Radical Research</i> , 2009, 43, 272-279.	1.5	18
78	Cell death and survival mechanisms are concomitantly active in the hippocampus of patients with mesial temporal sclerosis. <i>Neuroscience</i> , 2013, 237, 56-65.	1.1	18
79	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.	2.3	18
80	Optical coherence tomography imaging of capillary reperfusion after ischemic stroke. <i>Applied Optics</i> , 2016, 55, 9526.	2.1	18
81	Pericyte morphology and function. <i>Histology and Histopathology</i> , 2021, 36, 633-643.	0.5	18
82	Changes in the Expression of Selenoproteins in Mesial Temporal Lobe Epilepsy Patients. <i>Cellular and Molecular Neurobiology</i> , 2009, 29, 1223-1231.	1.7	17
83	Plasma 3- \hat{I} 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, 138-147.	2.1	17
84	Preparation and Characterization of Biocompatible Chitosan Nanoparticles for Targeted Brain Delivery of Peptides. <i>Methods in Molecular Biology</i> , 2018, 1727, 443-454.	0.4	17
85	Statin Potentiates Human Platelet eNOS Activity without Enhancing eNOS mRNA and Protein Levels. <i>Cerebrovascular Diseases</i> , 2008, 26, 190-198.	0.8	16
86	A new model of transient focal cerebral ischemia for inducing selective neuronal necrosis. <i>Brain Research Bulletin</i> , 2009, 78, 226-231.	1.4	16
87	Ion Channel Dysfunction and Neuroinflammation in Migraine and Depression. <i>Frontiers in Pharmacology</i> , 2021, 12, 777607.	1.6	15
88	Iontophoretic studies on rat hippocampus with some novel GABA antagonists. <i>Life Sciences</i> , 1986, 39, 415-422.	2.0	13
89	Monitoring cellular edema at single-neuron level by electrical resistance measurements. <i>Journal of Neuroscience Methods</i> , 1997, 72, 175-181.	1.3	13
90	Preparation and Characterization of Biocompatible Chitosan Nanoparticles for Targeted Brain Delivery of Peptides. <i>Methods in Molecular Biology</i> , 2012, 846, 321-332.	0.4	13

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91	Right Internal Carotid Artery Occlusion during Intravenous Thrombolysis for Left Middle Cerebral Artery Occlusion. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2009, 18, 74-77.	0.7	12
92	The influence of N-desmethylclozapine and clozapine on recognition memory and BDNF expression in hippocampus. <i>Brain Research Bulletin</i> , 2011, 84, 144-150.	1.4	12
93	Poloxamer-188 and citicoline provide neuronal membrane integrity and protect membrane stability in cortical spreading depression. <i>International Journal of Neuroscience</i> , 2015, 125, 941-946.	0.8	12
94	Metabolomic Estimation of the Diagnosis and Onset Time of Permanent and Transient Cerebral Ischemia. <i>Molecular Neurobiology</i> , 2018, 55, 6193-6200.	1.9	10
95	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.	2.1	10
96	Brain Peptides for the Treatment of Neuropsychiatric Disorders. <i>Current Pharmaceutical Design</i> , 2019, 24, 3905-3917.	0.9	10
97	High dose anticholinergic therapy (biperiden) in dystonia. <i>Clinical Neurology and Neurosurgery</i> , 1991, 93, 35-37.	0.6	9
98	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, 753-760.	2.0	9
99	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.	2.7	9
100	Role of Pericytes in Neurovascular Unit and Stroke. <i>Springer Series in Translational Stroke Research</i> , 2016, , 25-43.	0.1	7
101	Glutamate and glycine induce a negative wave on hippocampal field response through NMDA receptors. <i>Brain Research</i> , 1990, 514, 293-299.	1.1	6
102	Analyses of the Turkish National Intravenous Thrombolysis Registry. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2016, 25, 1041-1047.	0.7	6
103	Contractile apparatus in CNS capillary pericytes. <i>Neurophotonics</i> , 2022, 9, 021904.	1.7	6
104	Formulation, bioavailability, and pharmacokinetics of sustained-release potassium chloride tablets. <i>Pharmaceutical Research</i> , 1991, 08, 1313-1317.	1.7	5
105	Nuclear expansion and pore opening are instant signs of neuronal hypoxia and can identify poorly fixed brains. <i>Scientific Reports</i> , 2018, 8, 14770.	1.6	5
106	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.	1.6	5
107	Nitric Oxide and the Cerebral Circulation. , 1997, , 96-98.		5
108	Ischemic Stroke: Basic Pathophysiology and Neuroprotective Strategies. , 2011, , 1-24.		4

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109	Acute idiopathic demyelinating polyneuropathy. <i>NeuroReport</i> , 1990, 1, 145-148.	0.6	3
110	The Role of Nitric Oxide in Cerebral Ischemia. , 1997, , 207-208.		3
111	Glutamate, without GABA antagonists, induces synchronized discharges in intact hippocampus via NMDA receptors. <i>Brain Research</i> , 1989, 498, 123-130.	1.1	2
112	Opportunities for Collective Wisdom in Stroke Research. <i>Cerebrovascular Diseases</i> , 1997, 7, 313-314.	0.8	2
113	Cerebral Microcirculation: An Introduction. , 2015, , 655-680.		2
114	Assessment of pain in mouse facial images. , 2016, , .		2
115	Apoptosis in Cerebral Ischemia. , 2004, , 855-866.		2
116	Response: Does Apoptosis-necrosis Dichotomy Exist in the Human Brain or in our Minds?. <i>Epilepsia</i> , 2003, 44, 1607-1608.	2.6	1
117	Apoptosis and Related Mechanisms in Cerebral Ischemia. , 2011, , 107-121.		1
118	Data of ascending cortical vein occlusion induced spreading depression. <i>Data in Brief</i> , 2018, 18, 1462-1465.	0.5	1
119	Nitric Oxide and Cerebrovascular Regulation. , 1995, , 189-194.		1
120	Confocal reflectance microscopy for metal and lipid nanoparticle visualization in the brain. <i>Nanomedicine</i> , 2022, , .	1.7	1
121	Letters to the editor. <i>Muscle and Nerve</i> , 1992, 15, 1299-1302.	1.0	0
122	Letters to the editor. <i>Muscle and Nerve</i> , 1993, 16, 562-570.	1.0	0
123	Ischemic Stroke: Basic Pathophysiology and Neuroprotective Strategies. , 2006, , 1-26.		0
124	Rapid Response of Myasthenic Ocular Signs to Ivlg Treatment. <i>Neuro-Ophthalmology</i> , 2008, 32, 249-252.	0.4	0
125	Reply to: "Pericyte constriction after stroke: the jury is still out". <i>Nature Medicine</i> , 2010, 16, 960-960.	15.2	0
126	Physiology and Pathophysiology of Cerebral Microcirculation. , 2014, , 1-31.		0

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127	Data of indirect immunofluorescence labeling of the mouse brain sections with sera from SLE and MS patients. Data in Brief, 2017, 15, 170-173.	0.5	0
128	Pericytes in Retinal. Pancreatic Islet Biology, 2021, , 125-144.	0.1	0
129	Use of Mutant Mice to Elucidate Neuroprotective and Neurotoxic Actions of Nitric Oxide in Cerebral Ischemia. , 2000, , 687-694.		0