Can Ozan Tan

List of Publications by Year
in descending order

90 papers	2,109 citations	235060 24 h-index	247751 42 g-index
95 all docs	95 docs citations	95 times ranked	2612 citing authors

#	Article	IF	Citations
1	Sympathetic Control of the Cerebral Vasculature in Humans. Stroke, 2010, 41, 102-109.	5.1	188
2	Relative Contributions of Sympathetic, Cholinergic, and Myogenic Mechanisms to Cerebral Autoregulation. Stroke, 2014, 45, 1771-1777.	5.1	115
3	Impaired Cerebral Autoregulation Is Associated With Vasospasm and Delayed Cerebral Ischemia in Subarachnoid Hemorrhage. Stroke, 2014, 45, 677-682.	5.1	110
4	Defining the characteristic relationship between arterial pressure and cerebral flow. Journal of Applied Physiology, 2012, 113, 1194-1200.	2.7	108
5	Cerebrovascular regulation, exercise, and mild traumatic brain injury. Neurology, 2014, 83, 1665-1672.	1.1	100
6	Cholinergic control of the cerebral vasculature in humans. Journal of Physiology, 2012, 590, 6343-6352.	2.9	95
7	Physical Activity Level and Symptom Duration Are Not Associated After Concussion. American Journal of Sports Medicine, 2016, 44, 1040-1046.	4.3	78
8	The role of myogenic mechanisms in human cerebrovascular regulation. Journal of Physiology, 2013, 591, 5095-5105.	2.9	77
9	Fractal properties of human heart period variability: physiological and methodological implications. Journal of Physiology, 2009, 587, 3929-3941.	2.9	59
10	Pathophysiologic differences in cerebral autoregulation after subarachnoid hemorrhage. Neurology, 2016, 86, 1950-1956.	1.1	59
11	Integrative physiological and computational approaches to understand autonomic control of cerebral autoregulation. Experimental Physiology, 2014, 99, 3-15.	2.0	58
12	Attenuated inspiratory muscle metaboreflex in endurance-trained individuals. Respiratory Physiology and Neurobiology, 2011, 177, 24-29.	1.7	46
13	Effect of Transcranial Low-Level Light Therapy vs Sham Therapy Among Patients With Moderate Traumatic Brain Injury. JAMA Network Open, 2020, 3, e2017337.	6.0	44
14	Cerebrovascular reactivity assessed by transcranial Doppler ultrasound in sport-related concussion: a systematic review. British Journal of Sports Medicine, 2015, 49, 1050-1055.	8.6	41
15	A multi-agent deep reinforcement learning framework for algorithmic trading in financial markets. Expert Systems With Applications, 2022, 208, 118124.	7.9	36
16	Blood Pressure Increases in OSA due to Maintained Neurovascular Sympathetic Transduction: Impact of CPAP. Sleep, 2015, 38, 1973-1980.	1.1	35
17	A Local Circuit Model of Learned Striatal and Dopamine Cell Responses under Probabilistic Schedules of Reward. Journal of Neuroscience, 2008, 28, 10062-10074.	3.8	33
18	The Role of Aerobic Exercise in Reducing Persistent Sport-related Concussion Symptoms. Medicine and Science in Sports and Exercise, 2019, 51, 647-652.	0.4	33

#	Article	IF	Citations
19	Modeling complex nonlinear responses of shallow lakes to fish and hydrology using artificial neural networks. Ecological Modelling, 2006, 196, 183-194.	2.5	31
20	Influence of Aerobic Exercise Volume on Postconcussion Symptoms. American Journal of Sports Medicine, 2021, 49, 1912-1920.	4.3	31
21	A Dopamineâ€“Acetylcholine Cascade: Simulating Learned and Lesion-Induced Behavior of Striatal Cholinergic Interneurons. Journal of Neurophysiology, 2008, 100, 2409-2421.	1.9	30
22	Characterizing Sympathetic Neurovascular Transduction in Humans. PLoS ONE, 2013, 8, e53769.	2.5	30
23	Physics-informed Deep Learning for Dual-Energy Computed Tomography Image Processing. Scientific Reports, 2019, 9, 17709.	3.4	29
24	The Relationship between Cerebral Vasoreactivity and Post-Concussive Symptom Severity. Journal of Neurotrauma, 2017, 34, 2700-2705.	3.5	28
25	Spot and Diffuse Signs: Quantitative Markers of Intracranial Hematoma Expansion at Dual-Energy CT. Radiology, 2019, 290, 179-186.	8.5	28
26	Predictive models in ecology: Comparison of performances and assessment of applicability. Ecological Informatics, 2006, 1, 195-211.	5.3	26
27	Human cerebrovascular function in health and disease: insights from integrative approaches. Journal of Physiological Anthropology, 2018, 37, 4.	2.7	26
28	Dynamic Cerebral Autoregulation Post Endovascular Thrombectomy in Acute Ischemic Stroke. Brain Sciences, 2020, 10, 641.	2.4	23
29	Deferoxamine, Cerebrovascular Hemodynamics, and Vascular Aging. Stroke, 2015, 46, 2576-2583.	5.1	22
30	Catastrophic-like shifts in shallow Turkish lakes: a modeling approach. Ecological Modelling, 2005, 183, 425-434.	2.5	20
31	Comments on Point:Counterpoint: Respiratory sinus arrhythmia is due to a central mechanism vs. respiratory sinus arrhythmia is due to the baroreflex mechanism. Journal of Applied Physiology, 2009, 106, 1745-1749.	2.7	18
32	Computational perspectives on forebrain microcircuits implicated in reinforcement learning, action selection, and cognitive control. Neural Networks, 2009, 22, 757-765.	6.3	17
33	Incongruous Changes in Heart Period and Heart Rate Variability with Vagotonic Atropine: Implications for Rehabilitation Medicine. PM and R, 2009, 1, 820-826.	1.7	17
34	A polynomial approximation for arbitrary functions. Applied Mathematics Letters, 2012, 25, 1947-1952.	2.8	17
35	Microemboli After Successful Thrombectomy Do Not Affect Outcome but Predict New Embolic Events. Stroke, 2020, 51, 154-161.	5.1	17
36	Universal Shelter-in-Place Versus Advanced Automated Contact Tracing and Targeted Isolation. Mayo Clinic Proceedings, 2020, 95, 1898-1905.	2.8	17

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37	Anticipatory Changes in Regional Cerebral Hemodynamics: A New Role for Dopamine?. Journal of Neurophysiology, 2009, 101, 2738-2740.	1.9	16
38	Does respiratory sinus arrhythmia serve a buffering role for diastolic pressure fluctuations?. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1492-H1498.	3.3	16
39	Alterations in sympathetic neurovascular transduction during acute hypoxia in humans. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 304, R959-R965.	1.8	16
40	Feedback and feedforward sympathetic haemodynamic control: chicken or egg?. Journal of Physiology, 2011, 589, 1867-1867.	2.9	15
41	BP regulation VI: elevated sympathetic outflow with human aging: hypertensive or homeostatic?. European Journal of Applied Physiology, 2014, 114, 511-519.	2.5	15
42	Alterations in autonomic cerebrovascular control after spinal cord injury. Autonomic Neuroscience: Basic and Clinical, 2018, 209, 43-50.	2.7	15
43	A Comparison of Functional Outcomes between Patients Admitted to Inpatient Rehabilitation after Initial Diagnosis Versus Recurrence of Glioblastoma Multiforme. PM and R, 2020, 12, 975-983.	1.7	15
44	Detection of Multifiber Neuronal Firings: A Mixture Separation Model Applied to Sympathetic Recordings. IEEE Transactions on Biomedical Engineering, 2009, 56, 147-158.	4.3	14
45	Effect of 6-Month Exercise Training on Neurovascular Function in Spinal Cord Injury. Medicine and Science in Sports and Exercise, 2021, 53, 38-46.	0.4	14
46	Revisiting human cerebral blood flow responses to augmented blood pressure oscillations. Journal of Physiology, 2019, 597, 1553-1564.	2.9	13
47	Rapid Assessment of Blood Pressure Variability and Outcome After Successful Thrombectomy. Stroke, 2021, 52, e531-e535.	5.1	13
48	Inconsistent relation of nonlinear heart rate variability indices to increasing vagal tone in healthy humans. Autonomic Neuroscience: Basic and Clinical, 2018, 213, 1-7.	2.7	11
49	Relative contributions of systemic hemodynamic variables to cerebral autoregulation during orthostatic stress. Journal of Applied Physiology, 2018, 124, 321-329.	2.7	11
50	Neurologic benefits of sports and exercise. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2018, 158, 463-471.	0.3	11
51	Traumatic Microbleeds in the Hippocampus and Corpus Callosum Predict Duration of Posttraumatic Amnesia. Journal of Head Trauma Rehabilitation, 2019, 34, E10-E18.	1.8	11
52	Cerebrovascular Neuroprotection after Acute Concussion in Adolescents. Annals of Neurology, 2021, 90, 43-51.	5.8	11
53	The Link Between Cerebrovascular Hemodynamics and Rehabilitation Outcomes After Aneurysmal Subarachnoid Hemorrhage. American Journal of Physical Medicine and Rehabilitation, 2018, 97, 309-315.	1.4	10
54	Old Methods for Young People?. Neurology, 2021, 96, 600-601.	1.1	10

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55	Similar Functional Gains Using Radial Versus Combined Shockwave Therapy in Management of Plantar Fasciitis. Journal of Foot and Ankle Surgery, 2021, 60, 1098-1102.	1.0	10
56	Neuropeptide co-release with GABA may explain functional non-monotonic uncertainty responses in dopamine neurons. Neuroscience Letters, 2008, 430, 218-223.	2.1	9
57	A pilot randomized controlled trial of 6-week combined exercise program on fasting insulin and fitness levels in individuals with spinal cord injury. European Spine Journal, 2019, 28, 1082-1091.	2.3	9
58	Postconcussion Exercise Volume Associations With Depression, Anxiety, and Dizziness Symptoms, and Postural Stability: Preliminary Findings. Journal of Head Trauma Rehabilitation, 2022, 37, 249-257.	1.8	9
59	Sequential Therapy With Recombinant Human IGF-1 Followed by Risedronate Increases Spine Bone Mineral Density in Women With Anorexia Nervosa: A Randomized, Placebo-Controlled Trial. Journal of Bone and Mineral Research, 2021, 36, 2116-2126.	3.0	9
60	Heart rate variability: are there complex patterns?. Frontiers in Physiology, 2013, 4, 165.	2.8	6
61	Clazosentan for Improvement of Time to Peak Perfusion in Patients with Angiographically Confirmed Severe Vasospasm. Neurocritical Care, 2022, 36, 240-247.	2.6	5
62	Temporal evolution of vasospasm and clinical outcome after intra-arterial vasodilator therapy in patients with aneurysmal subarachnoid hemorrhage. PLoS ONE, 2017, 12, e0174676.	2.5	5
63	Intracranial Blood Flow Quantification by Accelerated Dualâ€‹venc<scp>4D</scp> Flow <scp>MRI</scp>: Comparison With Transcranial Doppler Ultrasound. Journal of Magnetic Resonance Imaging, 2022, 56, 1256-1264.	3.6	5
64	Can the apparent adaptation of dopamine neuronsâ€™ mismatch sensitivities be reconciled with their computation of reward prediction errors?. Neuroscience Letters, 2008, 438, 14-16.	2.1	4
65	Assessing Cerebral Autoregulation via Oscillatory Lower Body Negative Pressure and Projection Pursuit Regression. Journal of Visualized Experiments, 2014, , .	0.3	4
66	Predictors of Acute Transfer and Mortality Within 6 Months From Admission to an Inpatient Rehabilitation Facility for Patients With Brain Tumors. Archives of Physical Medicine and Rehabilitation, 2022, 103, 424-429.	1.0	4
67	Is remote rehabilitation after stroke as effective as conventional therapy?. Neurology, 2020, 95, e2462-e2464.	1.1	3
68	In vitro convolutional neural networks. Nature Machine Intelligence, 2022, 4, 614-615.	15.0	3
69	AEROBIC EXERCISE VOLUME, NOT PRESCRIPTION, INFLUENCES POST-CONCUSSION SYMPTOMS: A RANDOMIZED CLINICAL TRIAL. Orthopaedic Journal of Sports Medicine, 2021, 9, .	2.1	2
70	On the judicious use of metrics for cerebral autoregulation. European Journal of Applied Physiology, 2013, 113, 2867-2868.	2.5	1
71	Cocoa, neurovascular coupling, and neurodegeneration. Neurology, 2013, 81, 863-864.	1.1	1
72	Executive dysfunction after multiple concussions is not related to cerebrovascular dysfunction. Physiological Measurement, 2021, 42, 095005.	2.2	1

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73	Impact Of 6-month Exercise Training On Neurovascular Function In Persons With Spinal Cord Injury. Medicine and Science in Sports and Exercise, 2020, 52, 225-225.	0.4	1
74	Crowd-Sourced Deep Learning for Intracranial Hemorrhage Identification: Wisdom of Crowds or Laissez-Faire. American Journal of Neuroradiology, 2023, 44, 762-767.	2.7	1
75	Computational implications of microcircuit specializations in forebrain circuits for motivated action selection. , 2009, , .		0
76	Response to Letter Regarding Article, â€œRelative Contributions of Sympathetic, Cholinergic, and Myogenic Mechanisms to Cerebral Autoregulationâ€. Stroke, 2014, 45, e209.	5.1	0
77	P3â€383: ENDOTHELIAL FUNCTION MAY MODIFY THE RELATIONSHIP BETWEEN BLOOD PRESSURE EXPOSURE AND CEREBRAL SMALL VESSEL DISEASE IN MIDLIFE. Alzheimer's and Dementia, 2018, 14, P1241.	0.7	0
78	P1â€265: BLOOD PRESSURE TRAJECTORIES ARE MORE PREDICTIVE OF NEUROVASCULAR DECOUPLING THAN JUST A DIAGNOSIS OF HYPERTENSION. Alzheimer's and Dementia, 2018, 14, P383.	0.7	0
79	P2â€342: CEREBROVASCULAR HEMODYNAMICS AND GAIT VELOCITY DURING A COGNITIVE TASK (DUAL TASK) Tj ETQq1 1 0.784314 rg	0.7	0
80	Symptom And Physiological Response To Exercise Following Concussion. Medicine and Science in Sports and Exercise, 2020, 52, 168-168.	0.4	0
81	Acute Adolescent Concussion: Cerebrovascular Reactivity, Symptom Burden, And Exercise Response. Medicine and Science in Sports and Exercise, 2020, 52, 13-13.	0.4	0
82	Effect of Transcranial Low-Level Light Therapy Among Patients With Moderate Traumatic Brain Injury. Biological Psychiatry, 2021, 89, S68-S69.	1.3	0
83	Neurovascular Transduction in Humans: New Insights from Multifiber Muscle Sympathetic Recordings. FASEB Journal, 2008, 22, 740.8.	0.4	0
84	Defining cerebral autoregulation: is dynamic simply faster static?. FASEB Journal, 2012, 26, 685.28.	0.4	0
85	Cerebral autoregulation in humans: role of the myogenic mechanism. FASEB Journal, 2012, 26, 685.15.	0.4	0
86	Cerebral autoregulation in humans: role of the cholinergic mechanisms. FASEB Journal, 2012, 26, 685.29.	0.4	0
87	Defining the physiology of cerebral autoregulation. FASEB Journal, 2013, 27, 925.11.	0.4	0
88	Effect of Desferroxamine Infusion on Cerebral Autoregulation in Elderly Individuals: A Randomized Placebo Controlled Trial. FASEB Journal, 2015, 29, 949.5.	0.4	0
89	Multi-modal 3-Dimensional Visualization of Pediatric Neuroblastoma: Aiding Surgical Planning Beyond Anatomical Information. Journal of Pediatric Surgery, 2024, 59, 1575-1581.	1.7	0
90	Concussion burden and laterâ€life cardiovascular risk factors in former professional Americanâ€style football players. Annals of Clinical and Translational Neurology, 2024, 11, 1604-1614.	3.7	0