

# Matthew Boyko

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60  
papers

935  
citations

19  
h-index

28  
g-index

69  
ext. papers

1,161  
ext. citations

3.7  
avg, IF

3.79  
L-index

#	Paper	IF	Citations
60	Blood Glutamate Scavenging With Pyruvate as a Novel Preventative and Therapeutic Approach for Depressive-Like Behavior Following Traumatic Brain Injury in a Rat Model.. <i>Frontiers in Neuroscience</i> , <b>2022</b> , 16, 832478	5.1	2
59	The Development of Novel Drug Treatments for Stroke Patients: A Review. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23, 5796	6.3	1
58	Glutamate Efflux across the BloodBrain Barrier: New Perspectives on the Relationship between Depression and the Glutamatergic System. <i>Metabolites</i> , <b>2022</b> , 12, 459	5.6	2
57	Potassium Level Variation Following Packed Cell Transfusion in Critically Ill Adult PatientsHow Alert Should We Be?. <i>Journal of Clinical Medicine</i> , <b>2022</b> , 11, 3117	5.1	0
56	Corneal Cross-Linking as Treatment in Pediatric Keratoconus: Comparison of Two Protocols. <i>Journal of Ophthalmology</i> , <b>2021</b> , 2021, 2659828	2	
55	A Novel Histological Technique to Assess Severity of Traumatic Brain Injury in Rodents: Comparisons to Neuroimaging and Neurological Outcomes. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 733115	5.1	2
54	A Metric Test for Assessing Spatial Working Memory in Adult Rats following Traumatic Brain Injury. <i>Journal of Visualized Experiments</i> , <b>2021</b> ,	1.6	2
53	A New NF- $\kappa$ B Inhibitor, MEDS-23, Reduces the Severity of Adverse Post-Ischemic Stroke Outcomes in Rats.. <i>Brain Sciences</i> , <b>2021</b> , 12,	3.4	2
52	Induction of Diffuse Axonal Brain Injury in Rats Based on Rotational Acceleration. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	1
51	Inducing Acute Liver Injury in Rats via Carbon Tetrachloride (CCl <sub>4</sub> ) Exposure Through an Orogastric Tube. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	2
50	Blood glutamate scavenging as a novel glutamate-based therapeutic approach for post-stroke depression. <i>Therapeutic Advances in Psychopharmacology</i> , <b>2020</b> , 10, 2045125320903951	4.9	6
49	Measuring Post-Stroke Cerebral Edema, Infarct Zone and Blood-Brain Barrier Breakdown in a Single Set of Rodent Brain Samples. <i>Journal of Visualized Experiments</i> , <b>2020</b> ,	1.6	2
48	Efficacy of covert closed-circuit television monitoring of the hand hygiene compliance of health care workers caring for patients infected with multidrug-resistant organisms in an intensive care unit. <i>American Journal of Infection Control</i> , <b>2020</b> , 48, 517-521	3.8	1
47	Inhibition of cyclooxygenase-1 does not reduce mortality in post-ischemic stroke rats. <i>Neuroscience Letters</i> , <b>2020</b> , 737, 135296	3.3	5
46	The effect of pyruvate on the development and progression of post-stroke depression: A new therapeutic approach. <i>Neuropharmacology</i> , <b>2019</b> , 155, 173-184	5.5	15
45	A Middle Cerebral Artery Occlusion Technique for Inducing Post-stroke Depression in Rats. <i>Journal of Visualized Experiments</i> , <b>2019</b> ,	1.6	4
44	An Alternative Model of Laser-Induced Stroke in the Motor Cortex of Rats. <i>Biological Procedures Online</i> , <b>2019</b> , 21, 9	8.3	4

43	The effect of depressive-like behavior and antidepressant therapy on social behavior and hierarchy in rats. <i>Behavioural Brain Research</i> , <b>2019</b> , 370, 111953	3.4	3
42	Establishment of novel technical methods for evaluating brain edema and lesion volume in stroked rats: A standardization of measurement procedures. <i>Brain Research</i> , <b>2019</b> , 1718, 12-21	3.7	6
41	Early life stress induces submissive behavior in adult rats. <i>Behavioural Brain Research</i> , <b>2019</b> , 372, 112025	3.4	5
40	A Novel Method for Assessing Cerebral Edema, Infarcted Zone and Blood-Brain Barrier Breakdown in a Single Post-stroke Rodent Brain. <i>Frontiers in Neuroscience</i> , <b>2019</b> , 13, 1105	5.1	11
39	Treatment of combined traumatic brain injury and hemorrhagic shock with fractionated blood products versus fresh whole blood in a rat model. <i>European Journal of Trauma and Emergency Surgery</i> , <b>2019</b> , 45, 263-271	2.3	6
38	A New Method for Inducing a Depression-Like Behavior in Rats. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	3
37	Blood Glutamate Reducing Effect of Hemofiltration in Critically Ill Patients. <i>Neurotoxicity Research</i> , <b>2018</b> , 33, 300-308	4.3	7
36	Biological and Behavioral Patterns of Post-Stroke Depression in Rats. <i>Canadian Journal of Neurological Sciences</i> , <b>2018</b> , 45, 451-461	1	16
35	Distinctive gene expression profile in women with history of postpartum depression. <i>Genomics</i> , <b>2017</b> , 109, 1-8	4.3	2
34	The incidence of hyperthermia during cochlear implant surgery in children. <i>Journal of Laryngology and Otology</i> , <b>2017</b> , 131, 900-906	1.8	1
33	Neuroprotection by Estrogen and Progesterone in Traumatic Brain Injury and Spinal Cord Injury. <i>Current Neuropharmacology</i> , <b>2016</b> , 14, 641-53	7.6	104
32	Clinical outcome of critically ill patients with thrombocytopenia and hypophosphatemia in the early stage of sepsis. <i>Anaesthesiology Intensive Therapy</i> , <b>2016</b> , 48, 294-299	1.7	12
31	Anesthetic Management of Patients with Congenital Insensitivity to Pain with Anhidrosis: A Retrospective Analysis of 358 Procedures Performed Under General Anesthesia. <i>Anesthesia and Analgesia</i> , <b>2015</b> , 121, 1316-20	3.9	12
30	Effects of Acute Lithium Treatment on Brain Levels of Inflammatory Mediators in Poststroke Rats. <i>BioMed Research International</i> , <b>2015</b> , 2015, 916234	3	6
29	Extracorporeal methods of blood glutamate scavenging: a novel therapeutic modality. <i>Expert Review of Neurotherapeutics</i> , <b>2015</b> , 15, 501-508	4.3	15
28	Establishment of an animal model of depression contagion. <i>Behavioural Brain Research</i> , <b>2015</b> , 281, 358-63	3.4	28
27	Brain to blood glutamate scavenging as a novel therapeutic modality: a review. <i>Journal of Neural Transmission</i> , <b>2014</b> , 121, 971-9	4.3	37
26	Bedside Percutaneous Tracheostomy versus Open Surgical Tracheostomy in Non-ICU Patients. <i>Critical Care Research and Practice</i> , <b>2014</b> , 2014, 156814	1.5	8

25	The influence of aging on poststroke depression using a rat model via middle cerebral artery occlusion. <i>Cognitive, Affective and Behavioral Neuroscience</i> , <b>2013</b> , 13, 847-59	3.5	32
24	Cell-free DNA as a potential marker to predict carbon tetrachloride-induced acute liver injury in rats. <i>Hepatology International</i> , <b>2013</b> , 7, 721-7	8.8	3
23	The effects of estrogen and progesterone on blood glutamate levels during normal pregnancy in women. <i>Gynecological Endocrinology</i> , <b>2013</b> , 29, 912-6	2.4	8
22	The neuro-behavioral profile in rats after subarachnoid hemorrhage. <i>Brain Research</i> , <b>2013</b> , 1491, 109-16	3.7	23
21	The effects of peritoneal dialysis on blood glutamate levels: implementation for neuroprotection. <i>Journal of Neurosurgical Anesthesiology</i> , <b>2013</b> , 25, 262-6	3	20
20	The role of hypothermia in the regulation of blood glutamate levels in naive rats. <i>Journal of Neurosurgical Anesthesiology</i> , <b>2013</b> , 25, 174-83	3	10
19	Anatomical location of arterial and venous lines significantly affects motor performance in rats. <i>Animal Science Journal</i> , <b>2012</b> , 83, 656-62	1.8	5
18	Effect of estrogens on blood glutamate levels in relation to neurological outcome after TBI in male rats. <i>Intensive Care Medicine</i> , <b>2012</b> , 38, 137-44	14.5	21
17	The effect of blood glutamate scavengers oxaloacetate and pyruvate on neurological outcome in a rat model of subarachnoid hemorrhage. <i>Neurotherapeutics</i> , <b>2012</b> , 9, 649-57	6.4	37
16	Cell-free DNA as a marker for prediction of brain damage in traumatic brain injury in rats. <i>Journal of Neurotrauma</i> , <b>2012</b> , 29, 261-7	5.4	23
15	Relationship between glutamate, GOT and GPT levels in maternal and fetal blood: a potential mechanism for fetal neuroprotection. <i>Early Human Development</i> , <b>2012</b> , 88, 773-8	2.2	4
14	The effects of hemodialysis on blood glutamate levels in chronic renal failure: implementation for neuroprotection. <i>Journal of Critical Care</i> , <b>2012</b> , 27, 743.e1-7	4	17
13	Pharmacokinetics of glutamate-oxaloacetate transaminase and glutamate-pyruvate transaminase and their blood glutamate-lowering activity in naive rats. <i>Neurochemical Research</i> , <b>2012</b> , 37, 2198-205	4.6	24
12	Effect of glutamate and blood glutamate scavengers oxaloacetate and pyruvate on neurological outcome and pathohistology of the hippocampus after traumatic brain injury in rats. <i>Anesthesiology</i> , <b>2012</b> , 116, 73-83	4.3	64
11	Blood glutamate scavenging: insight into neuroprotection. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 10041-66	6.3	64
10	α adrenergic-mediated reduction of blood glutamate levels and improved neurological outcome after traumatic brain injury in rats. <i>Journal of Neurosurgical Anesthesiology</i> , <b>2012</b> , 24, 30-8	3	17
9	Morphological and neuro-behavioral parallels in the rat model of stroke. <i>Behavioural Brain Research</i> , <b>2011</b> , 223, 17-23	3.4	21
8	Pyruvate's blood glutamate scavenging activity contributes to the spectrum of its neuroprotective mechanisms in a rat model of stroke. <i>European Journal of Neuroscience</i> , <b>2011</b> , 34, 1432-41	3.5	40

7	Cell-free DNA--a marker to predict ischemic brain damage in a rat stroke experimental model. <i>Journal of Neurosurgical Anesthesiology</i> , <b>2011</b> , 23, 222-8	3	30
6	Determination of factors affecting glutamate concentrations in the whole blood of healthy human volunteers. <i>Journal of Neurosurgical Anesthesiology</i> , <b>2011</b> , 23, 45-9	3	28
5	The effects of insulin, glucagon, glutamate, and glucose infusion on blood glutamate and plasma glucose levels in naive rats. <i>Journal of Neurosurgical Anesthesiology</i> , <b>2011</b> , 23, 323-8	3	16
4	The effects of estrogen and progesterone on blood glutamate levels: evidence from changes of blood glutamate levels during the menstrual cycle in women. <i>Biology of Reproduction</i> , <b>2011</b> , 84, 581-6	3-9	41
3	Distribution of radiolabeled l-glutamate and d-aspartate from blood into peripheral tissues in naive rats: significance for brain neuroprotection. <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 399, 694-8	3-4	20
2	An experimental model of focal ischemia using an internal carotid artery approach. <i>Journal of Neuroscience Methods</i> , <b>2010</b> , 193, 246-53	3	32
1	Bioelectrical Activity of the Amygdala of Rats under Conditions of Chronic Alcoholism and Imbalance of Nitric Oxide. <i>International Letters of Natural Sciences</i> , 49, 1-6		1