

Matthew Boyko

List of Publications by Citations

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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 | Neuroprotection by Estrogen and Progesterone in Traumatic Brain Injury and Spinal Cord Injury. <i>Current Neuropharmacology</i> , 2016 , 14, 641-53 | 7.6 | 104 |
| 59 | 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> , 2012 , 116, 73-83 | 4.3 | 64 |
| 58 | Blood glutamate scavenging: insight into neuroprotection. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 10041-66 | 6.3 | 64 |
| 57 | 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> , 2011 , 84, 581-6 | 3.9 | 41 |
| 56 | Pyruvate & blood glutamate scavenging activity contributes to the spectrum of its neuroprotective mechanisms in a rat model of stroke. <i>European Journal of Neuroscience</i> , 2011 , 34, 1432-41 | 3.5 | 40 |
| 55 | Brain to blood glutamate scavenging as a novel therapeutic modality: a review. <i>Journal of Neural Transmission</i> , 2014 , 121, 971-9 | 4.3 | 37 |
| 54 | The effect of blood glutamate scavengers oxaloacetate and pyruvate on neurological outcome in a rat model of subarachnoid hemorrhage. <i>Neurotherapeutics</i> , 2012 , 9, 649-57 | 6.4 | 37 |
| 53 | The influence of aging on poststroke depression using a rat model via middle cerebral artery occlusion. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2013 , 13, 847-59 | 3.5 | 32 |
| 52 | An experimental model of focal ischemia using an internal carotid artery approach. <i>Journal of Neuroscience Methods</i> , 2010 , 193, 246-53 | 3 | 32 |
| 51 | Cell-free DNA--a marker to predict ischemic brain damage in a rat stroke experimental model. <i>Journal of Neurosurgical Anesthesiology</i> , 2011 , 23, 222-8 | 3 | 30 |
| 50 | Establishment of an animal model of depression contagion. <i>Behavioural Brain Research</i> , 2015 , 281, 358-63 | 3.4 | 28 |
| 49 | Determination of factors affecting glutamate concentrations in the whole blood of healthy human volunteers. <i>Journal of Neurosurgical Anesthesiology</i> , 2011 , 23, 45-9 | 3 | 28 |
| 48 | Pharmacokinetics of glutamate-oxaloacetate transaminase and glutamate-pyruvate transaminase and their blood glutamate-lowering activity in naïve rats. <i>Neurochemical Research</i> , 2012 , 37, 2198-205 | 4.6 | 24 |
| 47 | Cell-free DNA as a marker for prediction of brain damage in traumatic brain injury in rats. <i>Journal of Neurotrauma</i> , 2012 , 29, 261-7 | 5.4 | 23 |
| 46 | The neuro-behavioral profile in rats after subarachnoid hemorrhage. <i>Brain Research</i> , 2013 , 1491, 109-16 | 3.7 | 23 |
| 45 | Effect of estrogens on blood glutamate levels in relation to neurological outcome after TBI in male rats. <i>Intensive Care Medicine</i> , 2012 , 38, 137-44 | 14.5 | 21 |
| 44 | Morphological and neuro-behavioral parallels in the rat model of stroke. <i>Behavioural Brain Research</i> , 2011 , 223, 17-23 | 3.4 | 21 |

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| 43 | The effects of peritoneal dialysis on blood glutamate levels: implementation for neuroprotection. <i>Journal of Neurosurgical Anesthesiology</i> , 2013 , 25, 262-6 | 3 | 20 |
| 42 | 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> , 2010 , 399, 694-8 | 3.4 | 20 |
| 41 | The effects of hemodialysis on blood glutamate levels in chronic renal failure: implementation for neuroprotection. <i>Journal of Critical Care</i> , 2012 , 27, 743.e1-7 | 4 | 17 |
| 40 | α adrenergic-mediated reduction of blood glutamate levels and improved neurological outcome after traumatic brain injury in rats. <i>Journal of Neurosurgical Anesthesiology</i> , 2012 , 24, 30-8 | 3 | 17 |
| 39 | Biological and Behavioral Patterns of Post-Stroke Depression in Rats. <i>Canadian Journal of Neurological Sciences</i> , 2018 , 45, 451-461 | 1 | 16 |
| 38 | 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> , 2011 , 23, 323-8 | 3 | 16 |
| 37 | The effect of pyruvate on the development and progression of post-stroke depression: A new therapeutic approach. <i>Neuropharmacology</i> , 2019 , 155, 173-184 | 5.5 | 15 |
| 36 | Extracorporeal methods of blood glutamate scavenging: a novel therapeutic modality. <i>Expert Review of Neurotherapeutics</i> , 2015 , 15, 501-508 | 4.3 | 15 |
| 35 | 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> , 2015 , 121, 1316-20 | 3.9 | 12 |
| 34 | Clinical outcome of critically ill patients with thrombocytopenia and hypophosphatemia in the early stage of sepsis. <i>Anesthesiology Intensive Therapy</i> , 2016 , 48, 294-299 | 1.7 | 12 |
| 33 | 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> , 2019 , 13, 1105 | 5.1 | 11 |
| 32 | The role of hypothermia in the regulation of blood glutamate levels in naive rats. <i>Journal of Neurosurgical Anesthesiology</i> , 2013 , 25, 174-83 | 3 | 10 |
| 31 | The effects of estrogen and progesterone on blood glutamate levels during normal pregnancy in women. <i>Gynecological Endocrinology</i> , 2013 , 29, 912-6 | 2.4 | 8 |
| 30 | Bedside Percutaneous Tracheostomy versus Open Surgical Tracheostomy in Non-ICU Patients. <i>Critical Care Research and Practice</i> , 2014 , 2014, 156814 | 1.5 | 8 |
| 29 | Blood Glutamate Reducing Effect of Hemofiltration in Critically Ill Patients. <i>Neurotoxicity Research</i> , 2018 , 33, 300-308 | 4.3 | 7 |
| 28 | Establishment of novel technical methods for evaluating brain edema and lesion volume in stroked rats: A standardization of measurement procedures. <i>Brain Research</i> , 2019 , 1718, 12-21 | 3.7 | 6 |
| 27 | Blood glutamate scavenging as a novel glutamate-based therapeutic approach for post-stroke depression. <i>Therapeutic Advances in Psychopharmacology</i> , 2020 , 10, 2045125320903951 | 4.9 | 6 |
| 26 | Effects of Acute Lithium Treatment on Brain Levels of Inflammatory Mediators in Poststroke Rats. <i>BioMed Research International</i> , 2015 , 2015, 916234 | 3 | 6 |

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| 25 | 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> , 2019 , 45, 263-271 | 2.3 | 6 |
| 24 | Early life stress induces submissive behavior in adult rats. <i>Behavioural Brain Research</i> , 2019 , 372, 112025 | 3.4 | 5 |
| 23 | Anatomical location of arterial and venous lines significantly affects motor performance in rats. <i>Animal Science Journal</i> , 2012 , 83, 656-62 | 1.8 | 5 |
| 22 | Inhibition of cyclooxygenase-1 does not reduce mortality in post-ischemic stroke rats. <i>Neuroscience Letters</i> , 2020 , 737, 135296 | 3.3 | 5 |
| 21 | A Middle Cerebral Artery Occlusion Technique for Inducing Post-stroke Depression in Rats. <i>Journal of Visualized Experiments</i> , 2019 , | 1.6 | 4 |
| 20 | An Alternative Model of Laser-Induced Stroke in the Motor Cortex of Rats. <i>Biological Procedures Online</i> , 2019 , 21, 9 | 8.3 | 4 |
| 19 | Relationship between glutamate, GOT and GPT levels in maternal and fetal blood: a potential mechanism for fetal neuroprotection. <i>Early Human Development</i> , 2012 , 88, 773-8 | 2.2 | 4 |
| 18 | The effect of depressive-like behavior and antidepressant therapy on social behavior and hierarchy in rats. <i>Behavioural Brain Research</i> , 2019 , 370, 111953 | 3.4 | 3 |
| 17 | A New Method for Inducing a Depression-Like Behavior in Rats. <i>Journal of Visualized Experiments</i> , 2018 , | 1.6 | 3 |
| 16 | Cell-free DNA as a potential marker to predict carbon tetrachloride-induced acute liver injury in rats. <i>Hepatology International</i> , 2013 , 7, 721-7 | 8.8 | 3 |
| 15 | Distinctive gene expression profile in women with history of postpartum depression. <i>Genomics</i> , 2017 , 109, 1-8 | 4.3 | 2 |
| 14 | Inducing Acute Liver Injury in Rats via Carbon Tetrachloride (CCl ₄) Exposure Through an Orogastic Tube. <i>Journal of Visualized Experiments</i> , 2020 , | 1.6 | 2 |
| 13 | 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> , 2020 , | 1.6 | 2 |
| 12 | A Novel Histological Technique to Assess Severity of Traumatic Brain Injury in Rodents: Comparisons to Neuroimaging and Neurological Outcomes. <i>Frontiers in Neuroscience</i> , 2021 , 15, 733115 | 5.1 | 2 |
| 11 | A Metric Test for Assessing Spatial Working Memory in Adult Rats following Traumatic Brain Injury. <i>Journal of Visualized Experiments</i> , 2021 , | 1.6 | 2 |
| 10 | 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> , 2022 , 16, 832478 | 5.1 | 2 |
| 9 | A New NF- κ B Inhibitor, MEDS-23, Reduces the Severity of Adverse Post-Ischemic Stroke Outcomes in Rats. <i>Brain Sciences</i> , 2021 , 12, | 3.4 | 2 |
| 8 | Glutamate Efflux across the BloodBrain Barrier: New Perspectives on the Relationship between Depression and the Glutamatergic System. <i>Metabolites</i> , 2022 , 12, 459 | 5.6 | 2 |

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| 7 | Induction of Diffuse Axonal Brain Injury in Rats Based on Rotational Acceleration. <i>Journal of Visualized Experiments</i> , 2020 , | 1.6 | 1 |
| 6 | The incidence of hyperthermia during cochlear implant surgery in children. <i>Journal of Laryngology and Otology</i> , 2017 , 131, 900-906 | 1.8 | 1 |
| 5 | 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 |
| 4 | 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> , 2020 , 48, 517-521 | 3.8 | 1 |
| 3 | The Development of Novel Drug Treatments for Stroke Patients: A Review. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 5796 | 6.3 | 1 |
| 2 | Potassium Level Variation Following Packed Cell Transfusion in Critically Ill Adult Patients: How Alert Should We Be?. <i>Journal of Clinical Medicine</i> , 2022 , 11, 3117 | 5.1 | 0 |
| 1 | Corneal Cross-Linking as Treatment in Pediatric Keratoconus: Comparison of Two Protocols. <i>Journal of Ophthalmology</i> , 2021 , 2021, 2659828 | 2 | |