Xiuyun Liu

List of Publications by Year
in descending order

71 papers	1,444 citations	361413 20 h-index	377865 34 g-index
77 all docs	77 docs citations	77 times ranked	1766 citing authors

#	Article	IF	Citations
1	Rrn3 gene knockout affects ethanol-induced locomotion in adult heterozygous zebrafish. Psychopharmacology, 2022, 239, 621.	3.1	4
2	mTOR pathway repressing expression of FoxO3 is a potential mechanism involved in neonatal white matter dysplasia. Human Molecular Genetics, 2022, 31, 2508-2520.	2.9	2
3	Comparison of different metrics of cerebral autoregulation in association with major morbidity and mortality after cardiac surgery. British Journal of Anaesthesia, 2022, 129, 22-32.	3.4	6
4	Optimal Cerebral Perfusion Pressure Assessed with a Multi-Window Weighted Approach Adapted for Prospective Use: A Validation Study. Acta Neurochirurgica Supplementum, 2021, 131, 181-185.	1.0	7
5	Quantitative validation of MRI mapping of cerebral venous oxygenation with direct blood sampling: A gradedâ€O₂ study in piglets. Magnetic Resonance in Medicine, 2021, 86, 1445-1453.	3.0	5
6	Wavelet Autoregulation Monitoring Identifies Blood Pressures Associated With Brain Injury in Neonatal Hypoxic-Ischemic Encephalopathy. Frontiers in Neurology, 2021, 12, 662839.	2.4	4
7	Overdosage of HNF1B Gene Associated With Annular Pancreas Detected in Neonate Patients With 17q12 Duplication. Frontiers in Genetics, 2021, 12, 615072.	2.3	3
8	Early Effects of Passive Leg-Raising Test, Fluid Challenge, and Norepinephrine on Cerebral Autoregulation and Oxygenation in COVID-19 Critically Ill Patients. Frontiers in Neurology, 2021, 12, 674466.	2.4	12
9	The association of bispectral index values and metrics of cerebral perfusion during cardiopulmonary bypass. Journal of Clinical Anesthesia, 2021, 74, 110395.	1.6	7
10	Determining Thresholds for Three Indices of Autoregulation to Identify the Lower Limit of Autoregulation During Cardiac Surgery*. Critical Care Medicine, 2021, 49, 650-660.	0.9	20
11	Racial and ethnic differences in foveal avascular zone in diabetic and nondiabetic eyes revealed by optical coherence tomography angiography. PLoS ONE, 2021, 16, e0258848.	2.5	9
12	Transcranial photoacoustic characterization of neurovascular physiology during early-stage photothrombotic stroke in neonatal piglets in vivo. Journal of Neural Engineering, 2021, 18, 065001.	3.5	10
13	Observations on the Cerebral Effects of Refractory Intracranial Hypertension After Severe Traumatic Brain Injury. Neurocritical Care, 2020, 32, 437-447.	2.4	18
14	A Supervised Approach to Robust Photoplethysmography Quality Assessment. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 649-657.	6.3	51
15	Intracranial Pressure Monitoring via External Ventricular Drain: Are We Waiting Long Enough Before Recording the Real Value?. Journal of Neuroscience Nursing, 2020, 52, 37-42.	1.1	17
16	OCT Angiography Assessment of Retinal Microvascular Changes in Diabetic Eyes in an Urban Safety-Net Hospital. Ophthalmology Retina, 2020, 4, 425-432.	2.4	10
17	Using machineâ€learning approach to distinguish patients with methamphetamine dependence from healthy subjects in a virtual reality environment. Brain and Behavior, 2020, 10, e01814.	2.2	21
18	Discordant vascular parameter measurements in diabetic and non-diabetic eyes detected by different optical coherence tomography angiography devices. PLoS ONE, 2020, 15, e0234664.	2.5	6

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19	Assessment of cerebral autoregulation indices â€“ a modelling perspective. Scientific Reports, 2020, 10, 9600.	3.3	19
20	Causal relationship between neuronal activity and cerebral hemodynamics in patients with ischemic stroke. Journal of Neural Engineering, 2020, 17, 026006.	3.5	6
21	Morphological changes of intracranial pressure quantifies vasodilatory effect of verapamil to treat cerebral vasospasm. Journal of NeuroInterventional Surgery, 2020, 12, 802-808.	3.3	5
22	Comparison of wavelet and correlation indices of cerebral autoregulation in a pediatric swine model of cardiac arrest. Scientific Reports, 2020, 10, 5926.	3.3	9
23	Improved Outcomes in Patients with Retinal Detachment after Implementation of a Silicone Oil Registry and Phone Call Reminder System. Ophthalmology Retina, 2019, 3, 543-547.	2.4	2
24	Response to Letter to the Editor: Evaluation of a New Catheter for Simultaneous Intracranial Pressure Monitoring and Cerebral Spinal Fluid Drainage: A Pilot Study. Neurocritical Care, 2019, 31, 227-228.	2.4	1
25	Cross-Frequency Coupling Between Cerebral Blood Flow Velocity and EEG in Ischemic Stroke Patients With Large Vessel Occlusion. Frontiers in Neurology, 2019, 10, 194.	2.4	8
26	Continuous monitoring of cerebrovascular reactivity through pulse transit time and intracranial pressure. Physiological Measurement, 2019, 40, 01LT01.	2.1	1
27	Cerebral Vascular Changes During Acute Intracranial Pressure Drop. Neurocritical Care, 2019, 30, 635-644.	2.4	5
28	Evaluation of a New Catheter for Simultaneous Intracranial Pressure Monitoring and Cerebral Spinal Fluid Drainage: A Pilot Study. Neurocritical Care, 2019, 30, 617-625.	2.4	7
29	Computed Tomography Indicators of Deranged Intracranial Physiology in Paediatric Traumatic Brain Injury. Acta Neurochirurgica Supplementum, 2018, 126, 29-34.	1.0	5
30	Non-invasive Intracranial Pressure Assessment in Brain Injured Patients Using Ultrasound-Based Methods. Acta Neurochirurgica Supplementum, 2018, 126, 69-73.	1.0	35
31	Pre-hospital Predictors of Impaired ICP Trends in Continuous Monitoring of Paediatric Traumatic Brain Injury Patients. Acta Neurochirurgica Supplementum, 2018, 126, 7-10.	1.0	3
32	Increased ICP and Its Cerebral Haemodynamic Sequelae. Acta Neurochirurgica Supplementum, 2018, 126, 47-50.	1.0	4
33	Sound shock response in larval zebrafish: A convenient and high-throughput assessment of auditory function. Neurotoxicology and Teratology, 2018, 66, 1-7.	2.4	12
34	Wavelet pressure reactivity index: a validation study. Journal of Physiology, 2018, 596, 2797-2809.	2.9	18
35	Baroreflex Impairment After Subarachnoid Hemorrhage Is Associated With Unfavorable Outcome. Stroke, 2018, 49, 1632-1638.	2.0	12
36	Simultaneous Transients of Intracranial Pressure and Heart Rate in Traumatic Brain Injury: Methods of Analysis. Acta Neurochirurgica Supplementum, 2018, 126, 147-151.	1.0	7

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37	Characterization of the locomotor activities of zebrafish larvae under the influence of various neuroactive drugs. Annals of Translational Medicine, 2018, 6, 173-173.	1.7	30
38	Cerebral haemodynamics during experimental intracranial hypertension. Journal of Cerebral Blood Flow and Metabolism, 2017, 37, 694-705.	4.3	24
39	Monitoring of Optimal Cerebral Perfusion Pressure in Traumatic Brain Injured Patients Using a Multi-Window Weighting Algorithm. Journal of Neurotrauma, 2017, 34, 3081-3088.	3.4	45
40	Impaired cerebral autoregulation: measurement and application to stroke. Journal of Neurology, Neurosurgery and Psychiatry, 2017, 88, 520-531.	1.9	114
41	Individualizing Thresholds of Cerebral Perfusion Pressure Using Estimated Limits of Autoregulation. Critical Care Medicine, 2017, 45, 1464-1471.	0.9	116
42	Screening in larval zebrafish reveals tissue-specific distributions of fifteen fluorescent compounds. DMM Disease Models and Mechanisms, 2017, 10, 1155-1164.	2.4	19
43	An Association Between ICP-Derived Data and Outcome in TBI Patients: The Role of Sample Size. Neurocritical Care, 2017, 27, 103-107.	2.4	26
44	Cerebrovascular pressure reactivity monitoring using wavelet analysis in traumatic brain injury patients: A retrospective study. PLoS Medicine, 2017, 14, e1002348.	8.4	48
45	A multiplex network approach for the analysis of intracranial pressure and heart rate data in traumatic brain injured patients. Applied Network Science, 2017, 2, 29.	1.5	13
46	Social Preference Deficits in Juvenile Zebrafish Induced by Early Chronic Exposure to Sodium Valproate. Frontiers in Behavioral Neuroscience, 2016, 10, 201.	2.0	21
47	Continuous Multimodality Monitoring in Children after Traumatic Brain Injuryâ€"Preliminary Experience. PLoS ONE, 2016, 11, e0148817.	2.5	49
48	Autonomic Impairment in Severe Traumatic Brain Injury: A Multimodal Neuromonitoring Study. Critical Care Medicine, 2016, 44, 1173-1181.	0.9	61
49	Anxiety-related behavioral responses of pentylenetetrazole-treated zebrafish larvae to light-dark transitions. Pharmacology Biochemistry and Behavior, 2016, 145, 55-65.	2.9	71
50	Cerebral Critical Closing Pressure During Infusion Tests. Acta Neurochirurgica Supplementum, 2016, 122, 215-220.	1.0	4
51	Effects of diphenylhydantoin on locomotion and thigmotaxis of larval zebrafish. Neurotoxicology and Teratology, 2016, 53, 41-47.	2.4	24
52	Prospective Study on Noninvasive Assessment of Intracranial Pressure in Traumatic Brain-Injured Patients: Comparison of Four Methods. Journal of Neurotrauma, 2016, 33, 792-802.	3.4	74
53	Correlation Between Cerebral Autoregulation and Carbon Dioxide Reactivity in Patients with Traumatic Brain Injury. Acta Neurochirurgica Supplementum, 2016, 122, 205-209.	1.0	12
54	Derangement of Cerebral Blood Flow Autoregulation During Intracranial Pressure Plateau Waves as Detected by Time and Frequency-Based Methods. Acta Neurochirurgica Supplementum, 2016, 122, 233-238.	1.0	7

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55	Cerebral critical closing pressure in hydrocephalus patients undertaking infusion tests. Neurological Research, 2015, 37, 674-682.	1.3	13
56	Cerebral Vasospasm Affects Arterial Critical Closing Pressure. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 285-291.	4.3	13
57	Comparison of Frequency and Time Domain Methods of Assessment of Cerebral Autoregulation in Traumatic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 248-256.	4.3	69
58	Influences of acute ethanol exposure on locomotor activities of zebrafish larvae under different illumination. Alcohol, 2015, 49, 727-737.	1.7	25
59	Increased Blood Glucose is Related to Disturbed Cerebrovascular Pressure Reactivity After Traumatic Brain Injury. Neurocritical Care, 2015, 22, 20-25.	2.4	23
60	Strain-dependent differential behavioral responses of zebrafish larvae to acute MK-801 treatment. Pharmacology Biochemistry and Behavior, 2014, 127, 82-89.	2.9	22
61	Between-centre variability in transfer function analysis, a widely used method for linear quantification of the dynamic pressureâ€"flow relation: The CARNet study. Medical Engineering and Physics, 2014, 36, 620-627.	1.7	53
62	Relationship of Vascular Wall Tension and Autoregulation Following Traumatic Brain Injury. Neurocritical Care, 2014, 21, 266-274.	2.4	22
63	Baroreflex and Cerebral Autoregulation Are Inversely Correlated. Circulation Journal, 2014, 78, 2460-2467.	1.6	31
64	Upper extremity kinetics during walker-assisted gait of knee joint stiffness simulation. , 2010, , .		0
65	Study on fatigue feature from forearm SEMG signal based on wavelet analysis. , 2010, , .		15
66	ICA-SVM combination algorithm for identification of motor imagery potentials. , 2010, , .		2
67	Brain-computer interface technique for electro-acupuncture stimulation control. , 2010, , .		0
68	Nonlinear static decoupling of six-dimension force sensor for walker dynamometer system based on artificial neural network. , 2009, , .		6
69	A gait stability investigation into FES-assisted paraplegic walking based on the walker tipping index. Journal of Neural Engineering, 2009, 6, 066007.	3.5	10
70	Measurement of upper extremity joint moments in walker-assisted gait. IET Science, Measurement and Technology, 2009, 3, 343-353.	1.6	3
71	Indirect biomechanics measurement on shoulder joint moments of walker-assisted gait. Virtual Environments, Human-Computer Interfaces and Measurements Systems, 2009 VECIMS '09 IEEE International Conference on, 2009, , .	0.0	6