

Xiuyun Liu

List of Publications by Year in descending order

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71
papers

1,444
citations

361045

20
h-index

377514

34
g-index

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all docs

77
docs citations

77
times ranked

1766
citing authors

#	ARTICLE	IF	CITATIONS
1	Individualizing Thresholds of Cerebral Perfusion Pressure Using Estimated Limits of Autoregulation. <i>Critical Care Medicine</i> , 2017, 45, 1464-1471.	0.4	116
2	Impaired cerebral autoregulation: measurement and application to stroke. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2017, 88, 520-531.	0.9	114
3	Prospective Study on Noninvasive Assessment of Intracranial Pressure in Traumatic Brain-Injured Patients: Comparison of Four Methods. <i>Journal of Neurotrauma</i> , 2016, 33, 792-802.	1.7	74
4	Anxiety-related behavioral responses of pentylenetetrazole-treated zebrafish larvae to light-dark transitions. <i>Pharmacology Biochemistry and Behavior</i> , 2016, 145, 55-65.	1.3	71
5	Comparison of Frequency and Time Domain Methods of Assessment of Cerebral Autoregulation in Traumatic Brain Injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 248-256.	2.4	69
6	Autonomic Impairment in Severe Traumatic Brain Injury: A Multimodal Neuromonitoring Study. <i>Critical Care Medicine</i> , 2016, 44, 1173-1181.	0.4	61
7	Between-centre variability in transfer function analysis, a widely used method for linear quantification of the dynamic pressure–flow relation: The CARNet study. <i>Medical Engineering and Physics</i> , 2014, 36, 620-627.	0.8	53
8	A Supervised Approach to Robust Photoplethysmography Quality Assessment. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 649-657.	3.9	51
9	Continuous Multimodality Monitoring in Children after Traumatic Brain Injury—Preliminary Experience. <i>PLoS ONE</i> , 2016, 11, e0148817.	1.1	49
10	Cerebrovascular pressure reactivity monitoring using wavelet analysis in traumatic brain injury patients: A retrospective study. <i>PLoS Medicine</i> , 2017, 14, e1002348.	3.9	48
11	Monitoring of Optimal Cerebral Perfusion Pressure in Traumatic Brain Injured Patients Using a Multi-Window Weighting Algorithm. <i>Journal of Neurotrauma</i> , 2017, 34, 3081-3088.	1.7	45
12	Non-invasive Intracranial Pressure Assessment in Brain Injured Patients Using Ultrasound-Based Methods. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 69-73.	0.5	35
13	Baroreflex and Cerebral Autoregulation Are Inversely Correlated. <i>Circulation Journal</i> , 2014, 78, 2460-2467.	0.7	31
14	Characterization of the locomotor activities of zebrafish larvae under the influence of various neuroactive drugs. <i>Annals of Translational Medicine</i> , 2018, 6, 173-173.	0.7	30
15	An Association Between ICP-Derived Data and Outcome in TBI Patients: The Role of Sample Size. <i>Neurocritical Care</i> , 2017, 27, 103-107.	1.2	26
16	Influences of acute ethanol exposure on locomotor activities of zebrafish larvae under different illumination. <i>Alcohol</i> , 2015, 49, 727-737.	0.8	25
17	Effects of diphenylhydantoin on locomotion and thigmotaxis of larval zebrafish. <i>Neurotoxicology and Teratology</i> , 2016, 53, 41-47.	1.2	24
18	Cerebral haemodynamics during experimental intracranial hypertension. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 694-705.	2.4	24

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19	Increased Blood Glucose is Related to Disturbed Cerebrovascular Pressure Reactivity After Traumatic Brain Injury. <i>Neurocritical Care</i> , 2015, 22, 20-25.	1.2	23
20	Strain-dependent differential behavioral responses of zebrafish larvae to acute MK-801 treatment. <i>Pharmacology Biochemistry and Behavior</i> , 2014, 127, 82-89.	1.3	22
21	Relationship of Vascular Wall Tension and Autoregulation Following Traumatic Brain Injury. <i>Neurocritical Care</i> , 2014, 21, 266-274.	1.2	22
22	Social Preference Deficits in Juvenile Zebrafish Induced by Early Chronic Exposure to Sodium Valproate. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 201.	1.0	21
23	Using machine learning approach to distinguish patients with methamphetamine dependence from healthy subjects in a virtual reality environment. <i>Brain and Behavior</i> , 2020, 10, e01814.	1.0	21
24	Determining Thresholds for Three Indices of Autoregulation to Identify the Lower Limit of Autoregulation During Cardiac Surgery*. <i>Critical Care Medicine</i> , 2021, 49, 650-660.	0.4	20
25	Screening in larval zebrafish reveals tissue-specific distributions of fifteen fluorescent compounds. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 1155-1164.	1.2	19
26	Assessment of cerebral autoregulation indices " a modelling perspective. <i>Scientific Reports</i> , 2020, 10, 9600.	1.6	19
27	Wavelet pressure reactivity index: a validation study. <i>Journal of Physiology</i> , 2018, 596, 2797-2809.	1.3	18
28	Observations on the Cerebral Effects of Refractory Intracranial Hypertension After Severe Traumatic Brain Injury. <i>Neurocritical Care</i> , 2020, 32, 437-447.	1.2	18
29	Intracranial Pressure Monitoring via External Ventricular Drain: Are We Waiting Long Enough Before Recording the Real Value?. <i>Journal of Neuroscience Nursing</i> , 2020, 52, 37-42.	0.7	17
30	Study on fatigue feature from forearm SEMG signal based on wavelet analysis. , 2010, , .		15
31	Cerebral critical closing pressure in hydrocephalus patients undertaking infusion tests. <i>Neurological Research</i> , 2015, 37, 674-682.	0.6	13
32	Cerebral Vasospasm Affects Arterial Critical Closing Pressure. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 285-291.	2.4	13
33	A multiplex network approach for the analysis of intracranial pressure and heart rate data in traumatic brain injured patients. <i>Applied Network Science</i> , 2017, 2, 29.	0.8	13
34	Sound shock response in larval zebrafish: A convenient and high-throughput assessment of auditory function. <i>Neurotoxicology and Teratology</i> , 2018, 66, 1-7.	1.2	12
35	Baroreflex Impairment After Subarachnoid Hemorrhage Is Associated With Unfavorable Outcome. <i>Stroke</i> , 2018, 49, 1632-1638.	1.0	12
36	Early Effects of Passive Leg-Raising Test, Fluid Challenge, and Norepinephrine on Cerebral Autoregulation and Oxygenation in COVID-19 Critically Ill Patients. <i>Frontiers in Neurology</i> , 2021, 12, 674466.	1.1	12

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37	Correlation Between Cerebral Autoregulation and Carbon Dioxide Reactivity in Patients with Traumatic Brain Injury. <i>Acta Neurochirurgica Supplementum</i> , 2016, 122, 205-209.	0.5	12
38	A gait stability investigation into FES-assisted paraplegic walking based on the walker tipping index. <i>Journal of Neural Engineering</i> , 2009, 6, 066007.	1.8	10
39	OCT Angiography Assessment of Retinal Microvascular Changes in Diabetic Eyes in an Urban Safety-Net Hospital. <i>Ophthalmology Retina</i> , 2020, 4, 425-432.	1.2	10
40	Transcranial photoacoustic characterization of neurovascular physiology during early-stage photothrombotic stroke in neonatal piglets in vivo. <i>Journal of Neural Engineering</i> , 2021, 18, 065001.	1.8	10
41	Comparison of wavelet and correlation indices of cerebral autoregulation in a pediatric swine model of cardiac arrest. <i>Scientific Reports</i> , 2020, 10, 5926.	1.6	9
42	Racial and ethnic differences in foveal avascular zone in diabetic and nondiabetic eyes revealed by optical coherence tomography angiography. <i>PLoS ONE</i> , 2021, 16, e0258848.	1.1	9
43	Cross-Frequency Coupling Between Cerebral Blood Flow Velocity and EEG in Ischemic Stroke Patients With Large Vessel Occlusion. <i>Frontiers in Neurology</i> , 2019, 10, 194.	1.1	8
44	Evaluation of a New Catheter for Simultaneous Intracranial Pressure Monitoring and Cerebral Spinal Fluid Drainage: A Pilot Study. <i>Neurocritical Care</i> , 2019, 30, 617-625.	1.2	7
45	Optimal Cerebral Perfusion Pressure Assessed with a Multi-Window Weighted Approach Adapted for Prospective Use: A Validation Study. <i>Acta Neurochirurgica Supplementum</i> , 2021, 131, 181-185.	0.5	7
46	The association of bispectral index values and metrics of cerebral perfusion during cardiopulmonary bypass. <i>Journal of Clinical Anesthesia</i> , 2021, 74, 110395.	0.7	7
47	Derangement of Cerebral Blood Flow Autoregulation During Intracranial Pressure Plateau Waves as Detected by Time and Frequency-Based Methods. <i>Acta Neurochirurgica Supplementum</i> , 2016, 122, 233-238.	0.5	7
48	Simultaneous Transients of Intracranial Pressure and Heart Rate in Traumatic Brain Injury: Methods of Analysis. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 147-151.	0.5	7
49	Nonlinear static decoupling of six-dimension force sensor for walker dynamometer system based on artificial neural network. , 2009, , .		6
50	Indirect biomechanics measurement on shoulder joint moments of walker-assisted gait. <i>Virtual Environments, Human-Computer Interfaces and Measurements Systems, 2009 VECIMS '09 IEEE International Conference on</i> , 2009, , .	0.0	6
51	Discordant vascular parameter measurements in diabetic and non-diabetic eyes detected by different optical coherence tomography angiography devices. <i>PLoS ONE</i> , 2020, 15, e0234664.	1.1	6
52	Causal relationship between neuronal activity and cerebral hemodynamics in patients with ischemic stroke. <i>Journal of Neural Engineering</i> , 2020, 17, 026006.	1.8	6
53	Comparison of different metrics of cerebral autoregulation in association with major morbidity and mortality after cardiac surgery. <i>British Journal of Anaesthesia</i> , 2022, 129, 22-32.	1.5	6
54	Computed Tomography Indicators of Deranged Intracranial Physiology in Paediatric Traumatic Brain Injury. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 29-34.	0.5	5

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55	Cerebral Vascular Changes During Acute Intracranial Pressure Drop. <i>Neurocritical Care</i> , 2019, 30, 635-644.	1.2	5
56	Morphological changes of intracranial pressure quantifies vasodilatory effect of verapamil to treat cerebral vasospasm. <i>Journal of NeuroInterventional Surgery</i> , 2020, 12, 802-808.	2.0	5
57	Quantitative validation of MRI mapping of cerebral venous oxygenation with direct blood sampling: A graded study in piglets. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 1445-1453.	1.9	5
58	Cerebral Critical Closing Pressure During Infusion Tests. <i>Acta Neurochirurgica Supplementum</i> , 2016, 122, 215-220.	0.5	4
59	Increased ICP and Its Cerebral Haemodynamic Sequelae. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 47-50.	0.5	4
60	Wavelet Autoregulation Monitoring Identifies Blood Pressures Associated With Brain Injury in Neonatal Hypoxic-Ischemic Encephalopathy. <i>Frontiers in Neurology</i> , 2021, 12, 662839.	1.1	4
61	Rrn3 gene knockout affects ethanol-induced locomotion in adult heterozygous zebrafish. <i>Psychopharmacology</i> , 2022, 239, 621.	1.5	4
62	Measurement of upper extremity joint moments in walker-assisted gait. <i>IET Science, Measurement and Technology</i> , 2009, 3, 343-353.	0.9	3
63	Pre-hospital Predictors of Impaired ICP Trends in Continuous Monitoring of Paediatric Traumatic Brain Injury Patients. <i>Acta Neurochirurgica Supplementum</i> , 2018, 126, 7-10.	0.5	3
64	Overdosage of HNF1B Gene Associated With Annular Pancreas Detected in Neonate Patients With 17q12 Duplication. <i>Frontiers in Genetics</i> , 2021, 12, 615072.	1.1	3
65	ICA-SVM combination algorithm for identification of motor imagery potentials. , 2010, , .		2
66	Improved Outcomes in Patients with Retinal Detachment after Implementation of a Silicone Oil Registry and Phone Call Reminder System. <i>Ophthalmology Retina</i> , 2019, 3, 543-547.	1.2	2
67	mTOR pathway repressing expression of FoxO3 is a potential mechanism involved in neonatal white matter dysplasia. <i>Human Molecular Genetics</i> , 2022, 31, 2508-2520.	1.4	2
68	Response to Letter to the Editor: Evaluation of a New Catheter for Simultaneous Intracranial Pressure Monitoring and Cerebral Spinal Fluid Drainage: A Pilot Study. <i>Neurocritical Care</i> , 2019, 31, 227-228.	1.2	1
69	Continuous monitoring of cerebrovascular reactivity through pulse transit time and intracranial pressure. <i>Physiological Measurement</i> , 2019, 40, 01LT01.	1.2	1
70	Upper extremity kinetics during walker-assisted gait of knee joint stiffness simulation. , 2010, , .		0
71	Brain-computer interface technique for electro-acupuncture stimulation control. , 2010, , .		0