Shiming Yang

List of Publications by Year
in descending order

44 papers	757 citations	471509 17 h-index	580821 25 g-index
45 all docs	45 docs citations	45 times ranked	887 citing authors

#	Article	IF	Citations
1	Leveraging Continuous Vital Sign Measurements for Real-Time Assessment of Autonomic Nervous System Dysfunction After Brain Injury: A Narrative Review of Current and Future Applications. Neurocritical Care, 2022, , .	2.4	7
2	Enhanced Training Benefits of Video Recording Surgery With Automated Hand Motion Analysis. World Journal of Surgery, 2021, 45, 981-987.	1.6	3
3	Prehospital continuous vital signs predict need for resuscitative endovascular balloon occlusion of the aorta and resuscitative thoracotomy prehospital continuous vital signs predict resuscitative endovascular balloon occlusion of the aorta. Journal of Trauma and Acute Care Surgery, 2021, 91, 798-802.	2.1	8
4	Comparison of massive and emergency transfusion prediction scoring systems after trauma with a new Bleeding Risk Index score applied in-flight. Journal of Trauma and Acute Care Surgery, 2021, 90, 268-273.	2.1	8
5	A novel method of calculating stroke volume using point-of-care echocardiography. Cardiovascular Ultrasound, 2020, 18, 37.	1.6	4
6	The characteristics of monosyllable recognition in Mandarin-speaking patients with auditory neuropathy. Acta Oto-Laryngologica, 2020, 140, 479-486.	0.9	0
7	Transplantation and Tracking of the Human Umbilical Cord Mesenchymal Stem Cell Labeled with Superparamagnetic Iron Oxide in Deaf Pigs. Anatomical Record, 2020, 303, 494-505.	1.4	10
8	Traumatic cardiac arrest and resuscitative endovascular balloon occlusion of the aorta (REBOA): a preliminary analysis utilizing high fidelity invasive blood pressure recording and videography. European Journal of Trauma and Emergency Surgery, 2019, 45, 1097-1105.	1.7	17
9	Critical errors in infrequently performed trauma procedures afterÂtraining. Surgery, 2019, 166, 835-843.	1.9	13
10	Linking Big Data and Prediction Strategies: Tools, Pitfalls, and Lessons Learned. Critical Care Medicine, 2019, 47, 840-848.	0.9	16
11	The authors reply. Critical Care Medicine, 2019, 47, e1034.	0.9	0
12	Examination of hemodynamics in patients in hemorrhagic shock undergoing Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA). Injury, 2019, 50, 1042-1048.	1.7	17
13	Exclusive clinical experience with a lower profile device for resuscitative endovascular balloon occlusion of the aorta (REBOA). American Journal of Surgery, 2019, 217, 1126-1129.	1.8	28
14	Use of Resuscitative Endovascular Balloon Occlusion of the Aorta for Proximal Aortic Control in Patients With Severe Hemorrhage and Arrest. JAMA Surgery, 2018, 153, 130.	4.3	130
15	Resuscitative Endovascular Balloon Occlusion of the Aorta Improves Cardiac Compression Fraction Versus Resuscitative Thoracotomy in Patients in Traumatic Arrest. Annals of Emergency Medicine, 2018, 72, 354-360.	0.6	23
16	Continuous Vital Sign Analysis to Predict Secondary Neurological Decline After Traumatic Brain Injury. Frontiers in Neurology, 2018, 9, 761.	2.4	9
17	Life over Limb: Lower Extremity Ischemia in the Setting of Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA). American Surgeon, 2018, 84, 971-977.	0.8	24
18	Anomaly Detection Outperforms Logistic Regression in Predicting Outcomes in Trauma Patients. Prehospital Emergency Care, 2017, 21, 174-179.	1.8	4

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19	Reliable Collection of Real-Time Patient Physiologic Data from less Reliable Networks: a "Monitor of Monitors" System (MoMs). Journal of Medical Systems, 2017, 41, 3.	3.6	15
20	Acoustic sensor versus electrocardiographically derived respiratory rate in unstable trauma patients. Journal of Clinical Monitoring and Computing, 2017, 31, 765-772.	1.6	8
21	Pharmacologic Treatment Reduces Pressure Times Time Dose and Relative Duration of Intracranial Hypertension. Journal of Intensive Care Medicine, 2016, 31, 263-269.	2.8	8
22	Trends of Hemoglobin Oximetry. Anesthesia and Analgesia, 2016, 122, 115-125.	2.2	12
23	Automated continuous vital signs predict use of uncrossed matched blood and massive transfusion following trauma. Journal of Trauma and Acute Care Surgery, 2016, 80, 897-906.	2.1	26
24	In Response. Anesthesia and Analgesia, 2016, 123, 797.	2.2	0
25	Open chest cardiac massage offers no benefit over closed chest compressions in patients with traumatic cardiac arrest. Journal of Trauma and Acute Care Surgery, 2016, 81, 849-854.	2.1	26
26	Computer Modelling Using Prehospital Vitals Predicts Transfusion and Mortality. Prehospital Emergency Care, 2016, 20, 609-614.	1.8	4
27	Predicting secondary insults after severe traumatic brain injury. Journal of Trauma and Acute Care Surgery, 2015, 79, 85-90.	2.1	24
28	Predicting blood transfusion using automated analysis of pulse oximetry signals and laboratory values. Journal of Trauma and Acute Care Surgery, 2015, 79, S175-S180.	2.1	20
29	Predictive value of hyperthermia and intracranial hypertension on neurological outcomes in patients with severe traumatic brain injury. Brain Injury, 2015, 29, 1642-1647.	1.2	22
30	Accuracy of continuous noninvasive hemoglobin monitoring for the prediction of blood transfusions in trauma patients. Journal of Clinical Monitoring and Computing, 2015, 29, 815-821.	1.6	31
31	Permutation entropy analysis of vital signs data for outcome prediction of patients with severe traumatic brain injury. Computers in Biology and Medicine, 2015, 56, 167-174.	7.0	16
32	Responsiveness to therapy for increased intracranial pressure in traumatic brain injury is associated with neurological outcome. Injury, 2014, 45, 2084-2088.	1.7	9
33	'Big data' approaches to trauma outcome prediction and autonomous resuscitation. British Journal of Hospital Medicine (London, England: 2005), 2014, 75, 637-641.	0.5	15
34	Intracranial pressure response after pharmacologic treatment of intracranial hypertension. Journal of Trauma and Acute Care Surgery, 2014, 77, 47-53.	2.1	26
35	Detecting Road Traffic Events by Coupling Multiple Timeseries With a Nonparametric Bayesian Method. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1936-1946.	8.0	35
36	Timing of Intracranial Hypertension Following Severe Traumatic Brain Injury. Neurocritical Care, 2013, 18, 332-340.	2.4	22

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37	Spatio-temporal coupled Bayesian Robust Principal Component Analysis for road traffic event detection. , 2013, , .		5
38	Directed Use of the Internet for Health Information by Patients With Chronic Kidney Disease: Prospective Cohort Study. Journal of Medical Internet Research, 2013, 15, e251.	4.3	37
39	Usability of a CKD Educational Website Targeted to Patients and Their Family Members. Clinical Journal of the American Society of Nephrology: CJASN, 2012, 7, 1553-1560.	4.5	28
40	An adaptive observation site selection strategy for road traffic data assimilation. , 2012, , .		1
41	Online Recovery of Missing Values in Vital Signs Data Streams Using Low-Rank Matrix Completion. , 2012, , .		11
42	Computational gene mapping to analyze continuous automated physiologic monitoring data in neuro-trauma intensive care. Journal of Trauma and Acute Care Surgery, 2012, 73, 419-425.	2.1	8
43	Performance study on CUDA GPUs for parallelizing the local ensemble transformed Kalman filter algorithm. Concurrency Computation Practice and Experience, 2012, 24, 167-177.	2.2	6
44	The optimal relaxation parameter for the SOR method applied to the Poisson equation in any space dimensions. Applied Mathematics Letters, 2009, 22, 325-331.	2.7	18