

Shiming Yang

List of Publications by Year in descending order

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Version: 2024-02-01

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	Use of Resuscitative Endovascular Balloon Occlusion of the Aorta for Proximal Aortic Control in Patients With Severe Hemorrhage and Arrest. <i>JAMA Surgery</i> , 2018, 153, 130.	4.3	130
2	Directed Use of the Internet for Health Information by Patients With Chronic Kidney Disease: Prospective Cohort Study. <i>Journal of Medical Internet Research</i> , 2013, 15, e251.	4.3	37
3	Detecting Road Traffic Events by Coupling Multiple Timeseries With a Nonparametric Bayesian Method. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014, 15, 1936-1946.	8.0	35
4	Accuracy of continuous noninvasive hemoglobin monitoring for the prediction of blood transfusions in trauma patients. <i>Journal of Clinical Monitoring and Computing</i> , 2015, 29, 815-821.	1.6	31
5	Usability of a CKD Educational Website Targeted to Patients and Their Family Members. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2012, 7, 1553-1560.	4.5	28
6	Exclusive clinical experience with a lower profile device for resuscitative endovascular balloon occlusion of the aorta (REBOA). <i>American Journal of Surgery</i> , 2019, 217, 1126-1129.	1.8	28
7	Intracranial pressure response after pharmacologic treatment of intracranial hypertension. <i>Journal of Trauma and Acute Care Surgery</i> , 2014, 77, 47-53.	2.1	26
8	Automated continuous vital signs predict use of uncrossed matched blood and massive transfusion following trauma. <i>Journal of Trauma and Acute Care Surgery</i> , 2016, 80, 897-906.	2.1	26
9	Open chest cardiac massage offers no benefit over closed chest compressions in patients with traumatic cardiac arrest. <i>Journal of Trauma and Acute Care Surgery</i> , 2016, 81, 849-854.	2.1	26
10	Predicting secondary insults after severe traumatic brain injury. <i>Journal of Trauma and Acute Care Surgery</i> , 2015, 79, 85-90.	2.1	24
11	Life over Limb: Lower Extremity Ischemia in the Setting of Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA). <i>American Surgeon</i> , 2018, 84, 971-977.	0.8	24
12	Resuscitative Endovascular Balloon Occlusion of the Aorta Improves Cardiac Compression Fraction Versus Resuscitative Thoracotomy in Patients in Traumatic Arrest. <i>Annals of Emergency Medicine</i> , 2018, 72, 354-360.	0.6	23
13	Timing of Intracranial Hypertension Following Severe Traumatic Brain Injury. <i>Neurocritical Care</i> , 2013, 18, 332-340.	2.4	22
14	Predictive value of hyperthermia and intracranial hypertension on neurological outcomes in patients with severe traumatic brain injury. <i>Brain Injury</i> , 2015, 29, 1642-1647.	1.2	22
15	Predicting blood transfusion using automated analysis of pulse oximetry signals and laboratory values. <i>Journal of Trauma and Acute Care Surgery</i> , 2015, 79, S175-S180.	2.1	20
16	The optimal relaxation parameter for the SOR method applied to the Poisson equation in any space dimensions. <i>Applied Mathematics Letters</i> , 2009, 22, 325-331.	2.7	18
17	Traumatic cardiac arrest and resuscitative endovascular balloon occlusion of the aorta (REBOA): a preliminary analysis utilizing high fidelity invasive blood pressure recording and videography. <i>European Journal of Trauma and Emergency Surgery</i> , 2019, 45, 1097-1105.	1.7	17
18	Examination of hemodynamics in patients in hemorrhagic shock undergoing Resuscitative Endovascular Balloon Occlusion of the Aorta (REBOA). <i>Injury</i> , 2019, 50, 1042-1048.	1.7	17

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19	Permutation entropy analysis of vital signs data for outcome prediction of patients with severe traumatic brain injury. <i>Computers in Biology and Medicine</i> , 2015, 56, 167-174.	7.0	16
20	Linking Big Data and Prediction Strategies: Tools, Pitfalls, and Lessons Learned. <i>Critical Care Medicine</i> , 2019, 47, 840-848.	0.9	16
21	“Big data” approaches to trauma outcome prediction and autonomous resuscitation. <i>British Journal of Hospital Medicine</i> (London, England: 2005), 2014, 75, 637-641.	0.5	15
22	Reliable Collection of Real-Time Patient Physiologic Data from less Reliable Networks: a “Monitor of Monitors” System (MoMs). <i>Journal of Medical Systems</i> , 2017, 41, 3.	3.6	15
23	Critical errors in infrequently performed trauma procedures after training. <i>Surgery</i> , 2019, 166, 835-843.	1.9	13
24	Trends of Hemoglobin Oximetry. <i>Anesthesia and Analgesia</i> , 2016, 122, 115-125.	2.2	12
25	Online Recovery of Missing Values in Vital Signs Data Streams Using Low-Rank Matrix Completion. , 2012, , .		11
26	Transplantation and Tracking of the Human Umbilical Cord Mesenchymal Stem Cell Labeled with Superparamagnetic Iron Oxide in Deaf Pigs. <i>Anatomical Record</i> , 2020, 303, 494-505.	1.4	10
27	Responsiveness to therapy for increased intracranial pressure in traumatic brain injury is associated with neurological outcome. <i>Injury</i> , 2014, 45, 2084-2088.	1.7	9
28	Continuous Vital Sign Analysis to Predict Secondary Neurological Decline After Traumatic Brain Injury. <i>Frontiers in Neurology</i> , 2018, 9, 761.	2.4	9
29	Computational gene mapping to analyze continuous automated physiologic monitoring data in neuro-trauma intensive care. <i>Journal of Trauma and Acute Care Surgery</i> , 2012, 73, 419-425.	2.1	8
30	Pharmacologic Treatment Reduces Pressure Times Time Dose and Relative Duration of Intracranial Hypertension. <i>Journal of Intensive Care Medicine</i> , 2016, 31, 263-269.	2.8	8
31	Acoustic sensor versus electrocardiographically derived respiratory rate in unstable trauma patients. <i>Journal of Clinical Monitoring and Computing</i> , 2017, 31, 765-772.	1.6	8
32	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. <i>Journal of Trauma and Acute Care Surgery</i> , 2021, 91, 798-802.	2.1	8
33	Comparison of massive and emergency transfusion prediction scoring systems after trauma with a new Bleeding Risk Index score applied in-flight. <i>Journal of Trauma and Acute Care Surgery</i> , 2021, 90, 268-273.	2.1	8
34	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. <i>Neurocritical Care</i> , 2022, , .	2.4	7
35	Performance study on CUDA GPUs for parallelizing the local ensemble transformed Kalman filter algorithm. <i>Concurrency Computation Practice and Experience</i> , 2012, 24, 167-177.	2.2	6
36	Spatio-temporal coupled Bayesian Robust Principal Component Analysis for road traffic event detection. , 2013, , .		5

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37	Computer Modelling Using Prehospital Vitals Predicts Transfusion and Mortality. Prehospital Emergency Care, 2016, 20, 609-614.	1.8	4
38	Anomaly Detection Outperforms Logistic Regression in Predicting Outcomes in Trauma Patients. Prehospital Emergency Care, 2017, 21, 174-179.	1.8	4
39	A novel method of calculating stroke volume using point-of-care echocardiography. Cardiovascular Ultrasound, 2020, 18, 37.	1.6	4
40	Enhanced Training Benefits of Video Recording Surgery With Automated Hand Motion Analysis. World Journal of Surgery, 2021, 45, 981-987.	1.6	3
41	An adaptive observation site selection strategy for road traffic data assimilation. , 2012, , .		1
42	In Response. Anesthesia and Analgesia, 2016, 123, 797.	2.2	0
43	The authors reply. Critical Care Medicine, 2019, 47, e1034.	0.9	0
44	The characteristics of monosyllable recognition in Mandarin-speaking patients with auditory neuropathy. Acta Oto-Laryngologica, 2020, 140, 479-486.	0.9	0