Sven Zenker

List of Publications by Year
in descending order

16
papers	432
citations	1162367
8
h-index	887659
17
g-index
21
all docs	21
docs citations	21
times ranked	517
citing authors

#	Article	IF	Citations
1	Use of non-invasive NIRS during a vascular occlusion test to assess dynamic tissue O2 saturation response. Intensive Care Medicine, 2008, 34, 1600-1607.	3.9	176
2	From Inverse Problems in Mathematical Physiology to Quantitative Differential Diagnoses. PLoS Computational Biology, 2007, 3, e204.	1.5	75
3	An Adequately Robust Early TNF-Î± Response Is a Hallmark of Survival Following Trauma/Hemorrhage. PLoS ONE, 2009, 4, e8406.	1.1	52
4	Physiologic responses to severe hemorrhagic shock and theÂgenesis of cardiovascular collapse: Can irreversibility beÂanticipated?. Journal of Surgical Research, 2012, 178, 358-369.	0.8	27
5	The inverse problem in mathematical biology. Mathematical Biosciences, 2015, 260, 11-15.	0.9	26
6	Growth hormone deficiency in pituitary disease: relationship to depression, apathy and somatic complaints. European Journal of Endocrinology, 2002, 147, 165-171.	1.9	19
7	Peristaltic Pneumatic Compression of the Legs Reduces Fluid Demand and Improves Hemodynamic Stability during Surgery. Anesthesiology, 2011, 114, 536-544.	1.3	13
8	Parallel particle filters for online identification of mechanistic mathematical models of physiology from monitoring data: performance and real-time scalability in simulation scenarios. Journal of Clinical Monitoring and Computing, 2010, 24, 319-333.	0.7	11
9	Algorithmic surveillance of ICU patients with acute respiratory distress syndrome (ASIC): protocol for a multicentre stepped-wedge cluster randomised quality improvement strategy. BMJ Open, 2021, 11, e045589.	0.8	9
10	Thresholded Area Over the Curve of Spectrometric Tissue Oxygen Saturation as an Indicator of Volume Resuscitability in Porcine Hemorrhagic Shock. Journal of Trauma, 2007, 63, 573-580.	2.3	8
11	On the Importance of the Jacobian Determinant in Parameter Inference for Random Parameter and Random Measurement Error Models. SIAM-ASA Journal on Uncertainty Quantification, 2019, 7, 975-1006.	1.1	4
12	CONTINUOUS SUBLINGUAL PCO2 AS A RAPID INDICATOR OF CHANGES IN TISSUE PERFUSION IN HEMORRHAGIC SHOCK. Shock, 2006, 25, 57.	1.0	2
13	Robust Modelâ€Based Quantification of Global Ventricular Torsion from Spatially Sparse Threeâ€Dimensional Time Series Data by Orthogonal Distance Regression: Evaluation in a Canine Animal Model Under Different Pacing Regimes. PACE - Pacing and Clinical Electrophysiology, 2013, 36, 13-23.	0.5	1
14	Model-Based Quantification of Left Ventricular Diastolic Function in Critically Ill Patients with Atrial Fibrillation from Routine Data: A Feasibility Study. Computational and Mathematical Methods in Medicine, 2019, 2019, 1-11.	0.7	1
15	Very low frequency variability in the peripheral circulation: the possibility of plethysmographic quantification. European Journal of Anaesthesiology, 2009, 26, 522-524.	0.7	0
16	Differential Effects of Left Ventricular Pacing Sites on Regional Contraction Patterns and Global Performance. Journal of Cardiothoracic and Vascular Anesthesia, 2016, 30, 709-715.	0.6	0