

Christina Kolyva

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

510
citations

758635

12
h-index

676716

22
g-index

25
all docs

25
docs citations

25
times ranked

522
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytochrome c oxidase response to changes in cerebral oxygen delivery in the adult brain shows higher brain-specificity than haemoglobin. <i>NeuroImage</i> , 2014, 85, 234-244.	2.1	71
2	Coronary structure and perfusion in health and disease. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 3137-3153.	1.6	65
3	Systematic investigation of changes in oxidized cerebral cytochrome c oxidase concentration during frontal lobe activation in healthy adults. <i>Biomedical Optics Express</i> , 2012, 3, 2550.	1.5	55
4	Potential and limitations of wave intensity analysis in coronary arteries. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 233-239.	1.6	40
5	A Mock Circulatory System With Physiological Distribution of Terminal Resistance and Compliance: Application for Testing the Intra-Aortic Balloon Pump. <i>Artificial Organs</i> , 2012, 36, E62-70.	1.0	40
6	Windkesselness of coronary arteries hampers assessment of human coronary wave speed by single-point technique. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H482-H490.	1.5	32
7	Discerning aortic waves during intra-aortic balloon pumping and their relation to benefits of counterpulsation in humans. <i>Journal of Applied Physiology</i> , 2009, 107, 1497-1503.	1.2	32
8	Model prediction of subendocardial perfusion of the coronary circulation in the presence of an epicardial coronary artery stenosis. <i>Medical and Biological Engineering and Computing</i> , 2008, 46, 421-432.	1.6	28
9	Hyperoxia results in increased aerobic metabolism following acute brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2910-2920.	2.4	28
10	How much of the intraaortic balloon volume is displaced toward the coronary circulation?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010, 140, 110-116.	0.4	27
11	Dependence on NIRS Source-Detector Spacing of Cytochrome c Oxidase Response to Hypoxia and Hypercapnia in the Adult Brain. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 353-359.	0.8	14
12	Oscillations in Cerebral Haemodynamics in Patients with Falciparum Malaria. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 101-107.	0.8	13
13	Variations in Aortic Pressure Affect the Mechanics of the Intra-Aortic Balloon: An In Vitro Investigation. <i>Artificial Organs</i> , 2010, 34, 546-553.	1.0	11
14	Normobaric Hyperoxia Does Not Change Optical Scattering or Pathlength but Does Increase Oxidised Cytochrome c Oxidase Concentration in Patients with Brain Injury. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 67-72.	0.8	9
15	Increased diastolic time fraction as beneficial adjunct of β_1 -adrenergic receptor blockade after percutaneous coronary intervention. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H2054-H2060.	1.5	8
16	Pressure-Wave Energy Relationship during IABP Counterpulsation in a Mock Circulation: Changes with Angle and Assisting Frequency. <i>International Journal of Artificial Organs</i> , 2012, 35, 15-24.	0.7	8
17	Measurements of Intra-Aortic Balloon Wall Movement During Inflation and Deflation: Effects of Angulation. <i>Artificial Organs</i> , 2015, 39, E154-63.	1.0	6
18	Newly Shaped Intra-Aortic Balloons Improve the Performance of Counterpulsation at the Semirecumbent Position: An In Vitro Study. <i>Artificial Organs</i> , 2016, 40, E146-57.	1.0	6

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19	Use of a Hybrid Optical Spectrometer for the Measurement of Changes in Oxidized Cytochrome c Oxidase Concentration and Tissue Scattering During Functional Activation. <i>Advances in Experimental Medicine and Biology</i> , 2012, 737, 119-124.	0.8	6
20	Reduction of Cytochrome c Oxidase During Vasovagal Hypoxia-Ischemia in Human Adult Brain: A Case Study. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 21-27.	0.8	4
21	Making light work: illuminating the future of biomedical optics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4355-4357.	1.6	3
22	Does Conventional Intra-Aortic Balloon Pump Trigger Timing Produce Optimal Hemodynamic Effects <i>in vivo</i> ? <i>International Journal of Artificial Organs</i> , 2015, 38, 146-153.	0.7	2
23	A Mock Circulatory System With Physiological Distribution of Terminal Resistance and Compliance: Application for Testing the Intra-Aortic Balloon Pump. , 2012, 36, E62.		1
24	Model prediction of subendocardial perfusion in the presence of an epicardial coronary artery stenosis. <i>FASEB Journal</i> , 2008, 22, 1152.12.	0.2	1
25	Physiological Significance of a Coronary Stenosis Assessed from Pulsatile Resistance Index at Baseline Flow. <i>FASEB Journal</i> , 2009, 23, 1032.8.	0.2	0