

Vladislav Toronov

List of Publications by Year in descending order

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26
papers

1,065
citations

686830

13
h-index

794141

19
g-index

26
all docs

26
docs citations

26
times ranked

988
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of human brain hemodynamics by simultaneous near-infrared spectroscopy and functional magnetic resonance imaging. <i>Medical Physics</i> , 2001, 28, 521-527.	1.6	337
2	Noninvasive determination of the optical properties of adult brain: near-infrared spectroscopy approach. <i>Journal of Biomedical Optics</i> , 2004, 9, 221.	1.4	184
3	Measurement of brain activity by near-infrared light. <i>Journal of Biomedical Optics</i> , 2005, 10, 011008.	1.4	80
4	Study of local cerebral hemodynamics by frequency-domain near-infrared spectroscopy and correlation with simultaneously acquired functional magnetic resonance imaging. <i>Optics Express</i> , 2001, 9, 417.	1.7	77
5	Fast cerebral functional signal in the 100-ms range detected in the visual cortex by frequency-domain near-infrared spectrophotometry. <i>Psychophysiology</i> , 2003, 40, 521-528.	1.2	77
6	Broadband continuous-wave technique to measure baseline values and changes in the tissue chromophore concentrations. <i>Biomedical Optics Express</i> , 2012, 3, 2761.	1.5	44
7	Development of a combined broadband near-infrared and diffusion correlation system for monitoring cerebral blood flow and oxidative metabolism in preterm infants. <i>Biomedical Optics Express</i> , 2015, 6, 3907.	1.5	40
8	Simultaneous integrated diffuse optical tomography and functional magnetic resonance imaging of the human brain. <i>Optics Express</i> , 2005, 13, 5513.	1.7	39
9	Independent component analysis of broadband near-infrared spectroscopy data acquired on adult human head. <i>Biomedical Optics Express</i> , 2012, 3, 64.	1.5	34
10	Measurement of the optical properties of a two-layer model of the human head using broadband near-infrared spectroscopy. <i>Applied Optics</i> , 2010, 49, 6324.	2.1	32
11	Event-related changes of the prefrontal cortex oxygen delivery and metabolism during driving measured by hyperspectral fNIRS. <i>Biomedical Optics Express</i> , 2016, 7, 1323.	1.5	27
12	Study of the Effects of Epinephrine on Cerebral Oxygenation and Metabolism During Cardiac Arrest and Resuscitation by Hyperspectral Near-Infrared Spectroscopy. <i>Critical Care Medicine</i> , 2019, 47, e349-e357.	0.4	23
13	Improved light collection and wavelet de-noising enable quantification of cerebral blood flow and oxygen metabolism by a low-cost, off-the-shelf spectrometer. <i>Journal of Biomedical Optics</i> , 2014, 19, 057007.	1.4	22
14	Cerebral Hemodynamics and Metabolism During Cardiac Arrest and Cardiopulmonary Resuscitation Using Hyperspectral Near Infrared Spectroscopy. <i>Circulation Journal</i> , 2017, 81, 879-887.	0.7	15
15	Optimal quantitation of the cerebral hemodynamic response in functional near-infrared spectroscopy. <i>Optics Express</i> , 2010, 18, 19386.	1.7	11
16	Hyperspectral near-infrared spectroscopy assessment of the brain during hypoperfusion. <i>Journal of Biomedical Optics</i> , 2019, 24, 1.	1.4	9
17	TRANSCRANIAL NEAR-INFRARED SPECTROSCOPY OF SMOKING BRAINS. <i>Journal of Innovative Optical Health Sciences</i> , 2009, 02, 227-234.	0.5	5
18	Measurement of Adult Human Brain Responses to Breath-Holding by Multi-Distance Hyperspectral Near-Infrared Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 371.	1.3	4

#	ARTICLE	IF	CITATIONS
19	Spatial and temporal hemodynamic study of human primary visual cortex using simultaneous functional MRI and diffuse optical tomography. , 2005, 2006, 727-30.		3
20	Simultaneous measurement of cerebral and muscle tissue parameters during cardiac arrest and cardiopulmonary resuscitation. Proceedings of SPIE, 2015, , .	0.8	2
21	Imaging the electro-kinetic response of biological tissues with phase-resolved optical coherence tomography. Photonics & Lasers in Medicine, 2014, 3, .	0.3	0
22	Noninvasive determination of optical properties of adult brain with frequency-domain near-infrared spectroscopy. , 2002, , .		0
23	Hyperspectral Near-Infrared Spectroscopy of the Brain. , 2015, , .		0
24	Monitoring cerebral oxygenation and metabolism during cardiac arrest and CPR using hyperspectral NIRS. , 2016, , .		0
25	Assessment of Septic Patients by Hyperspectral Near-Infrared Spectroscopy. , 2017, , .		0
26	Hyperspectral near infrared spectroscopy assessment of the brain during hypoperfusion. , 2018, , .		0