Keith St Lawrence

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Sensitivity of Arterial Spin Labeling for Characterization of Longitudinal Perfusion Changes in Frontotemporal Dementia and Related Disorders. NeuroImage: Clinical, 2022, 35, 102853.	1.4	9
2	Assessing cerebral blood flow, oxygenation and cytochrome c oxidase stability in preterm infants during the first 3Âdays after birth. Scientific Reports, 2022, 12, 181.	1.6	11
3	Concordance of regional hypoperfusion by pCASL MRI and 15O-water PET in frontotemporal dementia: Is pCASL an efficacious alternative?. NeuroImage: Clinical, 2022, 33, 102950.	1.4	6
4	Noninvasive Quantification of Cerebral Blood Flow Using Hybrid <scp>PET</scp> / <scp>MR</scp> Imaging to Extract the [<scp>¹⁵O</scp>] <scp>H₂O</scp> Imageâ€Đerived Input Function Free of Partial Volume Errors. Journal of Magnetic Resonance Imaging, 2022, 56, 1243-1255.	1.9	2
5	Hybrid hsNIRS/DCS system for assessing cerebral blood flow and cytochrome c oxidase stability in preterm infants. , 2022, , .		0
6	Assessing the sensitivity of multi-distance hsNIRS for measuring changes in oxCCO in the brain. , 2022, , .		0
7	Dynamic tracking of microvascular hemoglobin content for continuous perfusion monitoring in the intensive care unit: pilot feasibility study. Journal of Clinical Monitoring and Computing, 2021, 35, 1453-1465.	0.7	4
8	Multimodal Measurements of Brain Tissue Metabolism and Perfusion in a Neonatal Model of Hypoxic-Ischaemic Injury. Advances in Experimental Medicine and Biology, 2021, 1269, 203-208.	0.8	2
9	A non-invasive reference-based method for imaging the cerebral metabolic rate of oxygen by PET/MR: theory and error analysis. Physics in Medicine and Biology, 2021, 66, 065009.	1.6	5
10	A Noninvasive Method for Quantifying Cerebral Metabolic Rate of Oxygen by Hybrid PET/MRI: Validation in a Porcine Model. Journal of Nuclear Medicine, 2021, 62, 1789-1796.	2.8	8
11	Simultaneous Monitoring of the Cerebral and Skeletomuscular Microcirculation using Hyperspectral Near Infrared Spectroscopy and Intravital Video Microscopy. FASEB Journal, 2021, 35, .	0.2	0
12	Incorporating early and late-arriving photons to improve the reconstruction of cerebral hemodynamic responses acquired by time-resolved near-infrared spectroscopy. Journal of Biomedical Optics, 2021, 26, .	1.4	6
13	The Potential Role of fNIRS in Evaluating Levels of Consciousness. Frontiers in Human Neuroscience, 2021, 15, 703405.	1.0	22
14	Quantification of cerebral blood flow in adults by contrast-enhanced near-infrared spectroscopy: Validation against MRI. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 1672-1684.	2.4	38
15	Using fMRI to investigate the potential cause of inverse oxygenation reported in fNIRS studies of motor imagery. Neuroscience Letters, 2020, 714, 134607.	1.0	16
16	Perfusion and Metabolic Neuromonitoring during Ventricular Taps in Infants with Post-Hemorrhagic Ventricular Dilatation. Brain Sciences, 2020, 10, 452.	1.1	20
17	Dynamic response of cerebral blood flow to insulin-induced hypoglycemia. Scientific Reports, 2020, 10, 21300.	1.6	3
18	Assessing Time-Resolved fNIRS for Brain-Computer Interface Applications of Mental Communication. Frontiers in Neuroscience, 2020, 14, 105.	1.4	31

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19	Direct assessment of extracerebral signal contamination on optical measurements of cerebral blood flow, oxygenation, and metabolism. Neurophotonics, 2020, 7, 045002.	1.7	44
20	Characterizing dynamic cerebral vascular reactivity using a hybrid system combining time-resolved near-infrared and diffuse correlation spectroscopy. Biomedical Optics Express, 2020, 11, 4571.	1.5	26
21	Optical monitoring of cerebral perfusion and metabolism in adults during cardiac surgery with cardiopulmonary bypass. Biomedical Optics Express, 2020, 11, 5967.	1.5	25
22	Validation protocol for current good manufacturing practices production of [150]water for hybrid PET/MR studies. Nuclear Medicine Communications, 2020, 41, 1100-1105.	0.5	2
23	Detection of Brain Hypoxia Based on Noninvasive Optical Monitoring of Cerebral Blood Flow with Diffuse Correlation Spectroscopy. Neurocritical Care, 2019, 30, 72-80.	1.2	39
24	Development of a stand-alone DCS system for monitoring absolute cerebral blood flow. Biomedical Optics Express, 2019, 10, 4607.	1.5	13
25	Evaluation of hyperspectral NIRS for quantitative measurements of tissue oxygen saturation by comparison to time-resolved NIRS. Biomedical Optics Express, 2019, 10, 4789.	1.5	15
26	A Noninvasive Method for Quantifying Cerebral Blood Flow by Hybrid PET/MRI. Journal of Nuclear Medicine, 2018, 59, 1329-1334.	2.8	32
27	Structural and Functional Brain Changes at Early and Late Stages of Complex Regional Pain Syndrome. Journal of Pain, 2018, 19, 146-157.	0.7	22
28	Multimodal Neuroimaging Approach to Variability of Functional Connectivity in Disorders of Consciousness: A PET/MRI Pilot Study. Frontiers in Neurology, 2018, 9, 861.	1.1	19
29	Broadband NIRS Cerebral Cytochrome-C-Oxidase Response to Anoxia Before and After Hypoxic-Ischaemic Injury in Piglets. Advances in Experimental Medicine and Biology, 2018, 1072, 151-156.	0.8	7
30	Simultaneous monitoring of cerebral perfusion and cytochrome c oxidase by combining broadband near-infrared spectroscopy and diffuse correlation spectroscopy. Biomedical Optics Express, 2018, 9, 2588.	1.5	39
31	Noninvasive continuous optical monitoring of absolute cerebral blood flow in critically ill adults. Neurophotonics, 2018, 5, 1.	1.7	42
32	Quantification of Cerebral Blood Flow in Adults by Dynamic Contrast-Enhanced NIRS: Validation against MRI. , 2018, , .		2
33	Investigating the effects of cerebrospinal fluid removal on cerebral blood flow and oxidative metabolism in infants with post-hemorrhagic ventricular dilatation. Pediatric Research, 2017, 82, 634-641.	1.1	12
34	Quantification of blood-brain barrier permeability by dynamic contrast-enhanced NIRS. Scientific Reports, 2017, 7, 1702.	1.6	26
35	Can time-resolved NIRS provide the sensitivity to detect brain activity during motor imagery consistently?. Biomedical Optics Express, 2017, 8, 2162.	1.5	35
36	Single-session communication with a locked-in patient by functional near-infrared spectroscopy. Neurophotonics, 2017, 4, 1.	1.7	42

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37	Assessment of a multi-layered diffuse correlation spectroscopy method for monitoring cerebral blood flow in adults. Biomedical Optics Express, 2016, 7, 3659.	1.5	47
38	Joint blood flow is more sensitive to inflammatory arthritis than oxyhemoglobin, deoxyhemoglobin, and oxygen saturation. Biomedical Optics Express, 2016, 7, 3843.	1.5	7
39	Subtraction-based approach for enhancing the depth sensitivity of time-resolved NIRS. Biomedical Optics Express, 2016, 7, 4514.	1.5	32
40	Assessing the feasibility of time-resolved fNIRS to detect brain activity during motor imagery. , 2016, , .		7
41	Time-resolved subtraction method for measuring optical properties of turbid media. Applied Optics, 2016, 55, 1507.	2.1	24
42	Development of a combined broadband near-infrared and diffusion correlation system for monitoring cerebral blood flow and oxidative metabolism in preterm infants. Biomedical Optics Express, 2015, 6, 3907.	1.5	40
43	Assessment of the best flow model to characterize diffuse correlation spectroscopy data acquired directly on the brain. Biomedical Optics Express, 2015, 6, 4288.	1.5	34
44	Prolonged In Vivo Retention of a Cathepsin D Targeted Optical Contrast Agent in a Mouse Model of Alzheimer's Disease. Journal of Alzheimer's Disease, 2015, 48, 73-87.	1.2	10
45	Coupling of cerebral blood flow and oxygen consumption during hypothermia in newborn piglets as measured by time-resolved near-infrared spectroscopy: a pilot study. Neurophotonics, 2015, 2, 035006.	1.7	7
46	Bolus tracking with nanofilter-based multispectral videography for capturing microvasculature hemodynamics. Scientific Reports, 2015, 4, 4737.	1.6	5
47	Preliminary evaluation of MRI-derived input function for quantitative measurement of glucose metabolism in an integrated PET-MRI. EJNMMI Physics, 2015, 2, A80.	1.3	9
48	Evidence against pain specificity in the dorsal posterior insula. F1000Research, 2015, 4, 362.	0.8	51
49	Improved light collection and wavelet de-noising enable quantification of cerebral blood flow and oxygen metabolism by a low-cost, off-the-shelf spectrometer. Journal of Biomedical Optics, 2014, 19, 057007.	1.4	22
50	Monitoring brain temperature by time-resolved near-infrared spectroscopy: pilot study. Journal of Biomedical Optics, 2014, 19, 057005.	1.4	15
51	Quantifying cerebral blood flow in an adult pig ischemia model by a depth-resolved dynamic contrast-enhanced optical method. NeuroImage, 2014, 94, 303-311.	2.1	27
52	Preservation of the metabolic rate of oxygen in preterm infants during indomethacin therapy for closure of the ductus arteriosus. Pediatric Research, 2013, 73, 713-718.	1.1	27
53	Variance of time-of-flight distribution is sensitive to cerebral blood flow as demonstrated by ICG bolus-tracking measurements in adult pigs. Biomedical Optics Express, 2013, 4, 206.	1.5	30
54	Quantifying the cerebral metabolic rate of oxygen by combining diffuse correlation spectroscopy and time-resolved near-infrared spectroscopy. Journal of Biomedical Optics, 2013, 18, 027007.	1.4	58

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55	Deconvolution method for recovering the photon time-of-flight distribution from time-resolved measurements. Optics Letters, 2012, 37, 2358.	1.7	30
56	Broadband continuous-wave technique to measure baseline values and changes in the tissue chromophore concentrations. Biomedical Optics Express, 2012, 3, 2761.	1.5	44
57	Calibration of diffuse correlation spectroscopy with a time-resolved near-infrared technique to yield absolute cerebral blood flow measurements. Biomedical Optics Express, 2011, 2, 2068.	1.5	103
58	Continuous monitoring of absolute cerebral blood flow by near-infrared spectroscopy during global and focal temporary vessel occlusion. Journal of Applied Physiology, 2011, 110, 1691-1698.	1.2	18
59	Using near-infrared spectroscopy to measure cerebral metabolic rate of oxygen under multiple levels of arterial oxygenation in piglets. Journal of Applied Physiology, 2010, 109, 878-885.	1.2	23
60	Comparison of time-resolved and continuous-wave near-infrared techniques for measuring cerebral blood flow in piglets. Journal of Biomedical Optics, 2010, 15, 057004.	1.4	56
61	Measurement of the optical properties of a two-layer model of the human head using broadband near-infrared spectroscopy. Applied Optics, 2010, 49, 6324.	2.1	32
62	A broadband continuous-wave multichannel near-infrared system for measuring regional cerebral blood flow and oxygen consumption in newborn piglets. Review of Scientific Instruments, 2009, 80, 054302.	0.6	24
63	Near-infrared spectroscopy measurements of cerebral blood flow and oxygen consumption following hypoxia-ischemia in newborn piglets. Journal of Applied Physiology, 2006, 100, 850-857.	1.2	51
64	Measurement of Cerebral Oxidative Metabolism with Near-Infrared Spectroscopy: A Validation Study. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 722-730.	2.4	44