

Ilias Tachtsidis

List of Publications by Year in descending order

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Version: 2024-02-01

199
papers

6,128
citations

87843

38
h-index

88593

70
g-index

206
all docs

206
docs citations

206
times ranked

4579
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypothermia is not therapeutic in a neonatal piglet model of inflammation-sensitized hypoxia-induced ischemia. <i>Pediatric Research</i> , 2022, 91, 1416-1427.	1.1	9
2	Near infrared spectroscopy reveals instability in retinal mitochondrial metabolism and haemodynamics with blue light exposure at environmental levels. <i>Journal of Biophotonics</i> , 2022, 15, e2916.	1.1	5
3	An Approach to Neuroimaging Interpersonal Interactions in Mental Health Interventions. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2022, 7, 669-679.	1.1	2
4	Broadband-NIRS System Identifies Epileptic Focus in a Child with Focal Cortical Dysplasia—A Case Study. <i>Metabolites</i> , 2022, 12, 260.	1.3	7
5	Investigation of functional near-infrared spectroscopy signal quality and development of the hemodynamic phase correlation signal. <i>Neurophotonics</i> , 2022, 9, .	1.7	5
6	Decreased Exercise-Induced Changes in Prefrontal Cortex Hemodynamics Are Associated With Depressive Symptoms. <i>Frontiers in Neuroergonomics</i> , 2022, 3, .	0.6	0
7	Prefrontal cortical activation associated with prospective memory while walking around a real-world street environment. <i>NeuroImage</i> , 2022, 258, 119392.	2.1	3
8	Multi-laboratory performance assessment of diffuse optics instruments: the BitMap exercise. <i>Journal of Biomedical Optics</i> , 2022, 27, .	1.4	9
9	The Role of Neuroglobin in Retinal Hemodynamics and Metabolism: A Real-Time Study. <i>Translational Vision Science and Technology</i> , 2022, 11, 2.	1.1	1
10	Systemic physiology augmented functional near-infrared spectroscopy: a powerful approach to study the embodied human brain. <i>Neurophotonics</i> , 2022, 9, .	1.7	26
11	The role of anterior prefrontal cortex (area 10) in face-to-face deception measured with fNIRS. <i>Social Cognitive and Affective Neuroscience</i> , 2021, 16, 129-142.	1.5	16
12	Serial blood cytokine and chemokine mRNA and microRNA over 48 h are insult specific in a piglet model of inflammation-sensitized hypoxia-induced ischaemia. <i>Pediatric Research</i> , 2021, 89, 464-475.	1.1	4
13	Facial and neural mechanisms during interactive disclosure of biographical information. <i>NeuroImage</i> , 2021, 226, 117572.	2.1	16
14	Multimodal Measurements of Brain Tissue Metabolism and Perfusion in a Neonatal Model of Hypoxic-Ischaemic Injury. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1269, 203-208.	0.8	2
15	Best practices for fNIRS publications. <i>Neurophotonics</i> , 2021, 8, 012101.	1.7	142
16	Comparison of short-channel separation and spatial domain filtering for removal of non-neural components in functional near-infrared spectroscopy signals. <i>Neurophotonics</i> , 2021, 8, 015004.	1.7	22
17	Watching synchronous mitochondrial respiration in the retina and its instability in a mouse model of macular degeneration. <i>Scientific Reports</i> , 2021, 11, 3274.	1.6	6
18	An analysis framework for the integration of broadband NIRS and EEG to assess neurovascular and neurometabolic coupling. <i>Scientific Reports</i> , 2021, 11, 3977.	1.6	21

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19	A multi-laboratory comparison of photon migration instruments and their performances: the BitMap exercise. , 2021, , .		2
20	Role of Optical Neuromonitoring in Neonatal Encephalopathyâ€”Current State and Recent Advances. <i>Frontiers in Pediatrics</i> , 2021, 9, 653676.	0.9	12
21	The Use of Supercontinuum Laser Sources in Biomedical Diffuse Optics: Unlocking the Power of Multispectral Imaging. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4616.	1.3	3
22	A Hyperspectral Imaging System for Mapping Haemoglobin and Cytochrome-c-Oxidase Concentration Changes in the Exposed Cerebral Cortex. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021, 27, 1-11.	1.9	9
23	Time-domain NIRS system based on supercontinuum light source and multi-wavelength detection: validation for tissue oxygenation studies. <i>Biomedical Optics Express</i> , 2021, 12, 6629.	1.5	12
24	Absolute quantification of cerebral tissue oxygen saturation with multidistance broadband NIRS in newborn brain. <i>Biomedical Optics Express</i> , 2021, 12, 907.	1.5	11
25	Inferior parietal lobule is sensitive to different semantic similarity relations for concrete and abstract words. <i>Psychophysiology</i> , 2021, 58, e13750.	1.2	6
26	hNIR: a hyperspectral imaging system for mapping changes in haemoglobin and cytochrome-c-oxidase on the exposed cerebral cortex of mice. , 2021, , .		1
27	Regional Haemodynamic and Metabolic Coupling in Infants. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 780076.	1.0	3
28	Cerebral time domain near-infrared spectroscopy of people with multiple sclerosis: a feasibility study. , 2021, , .		0
29	Does wearing a non-medical face mask cause changes in cerebral hemodynamics?. , 2021, , .		0
30	An optical biomarker of hypoxic-ischaemic injury severity in the neonatal brain. , 2021, , .		0
31	The present and future use of functional nearâ€infrared spectroscopy (fNIRS) for cognitive neuroscience. <i>Annals of the New York Academy of Sciences</i> , 2020, 1464, 5-29.	1.8	498
32	Xenoâ€oximetryâ€”Cerebral oximeters and animal models. <i>Paediatric Anaesthesia</i> , 2020, 30, 4-5.	0.6	0
33	Attention and Capacity Limits in Perception: A Cellular Metabolism Account. <i>Journal of Neuroscience</i> , 2020, 40, 6801-6811.	1.7	35
34	Metabolic brain measurements in the newborn: Advances in optical technologies. <i>Physiological Reports</i> , 2020, 8, e14548.	0.7	4
35	Cerebral Near Infrared Spectroscopy Monitoring in Term Infants With Hypoxic Ischemic Encephalopathyâ€”A Systematic Review. <i>Frontiers in Neurology</i> , 2020, 11, 393.	1.1	35
36	Nimodipine Reduces Dysfunction and Demyelination in Models of Multiple Sclerosis. <i>Annals of Neurology</i> , 2020, 88, 123-136.	2.8	19

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37	Near-Infrared Spectroscopy Measured Cerebral Blood Flow from Spontaneous Oxygenation Changes in Neonatal Brain Injury. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1232, 3-9.	0.8	6
38	Developing a Model to Simulate the Effect of Hypothermia on Cerebral Blood Flow and Metabolism. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1232, 299-306.	0.8	3
39	Changes in Brain Tissue Oxygenation and Metabolism During Rewarming After Neonatal Encephalopathy are Related to Electrical Abnormality. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1232, 25-31.	0.8	9
40	Investigation of the quantification of hemoglobin and cytochrome-c-oxidase in the exposed cortex with near-infrared hyperspectral imaging: a simulation study. <i>Journal of Biomedical Optics</i> , 2020, 25, 1.	1.4	8
41	Multi-laboratory efforts for the standardization of performance assessment of diffuse optics instruments – the BitMap Exercise. , 2020, , .		1
42	Interpolated functional manifold for functional near-infrared spectroscopy analysis at group level. <i>Neurophotonics</i> , 2020, 7, 045009.	1.7	2
43	Early bedside broadband near-infrared spectroscopy (bNIRS) markers of neonatal brain injury: quantifying oxygenation and in-vivo mitochondrial function. , 2020, , .		0
44	Oxygen dependency of mitochondrial metabolism indicates outcome of newborn brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 2035-2047.	2.4	43
45	MAESTROS: A Multiwavelength Time-Domain NIRS System to Monitor Changes in Oxygenation and Oxidation State of Cytochrome-C-Oxidase. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-12.	1.9	45
46	Acute LPS sensitization and continuous infusion exacerbates hypoxic brain injury in a piglet model of neonatal encephalopathy. <i>Scientific Reports</i> , 2019, 9, 10184.	1.6	36
47	Short-term effects of early initiation of magnesium infusion combined with cooling after hypoxia–ischemia in term piglets. <i>Pediatric Research</i> , 2019, 86, 699-708.	1.1	19
48	Medical Utility of NIR Monitoring. , 2019, , 415-431.		1
49	Clinical Brain Monitoring with Time Domain NIRS: A Review and Future Perspectives. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1612.	1.3	77
50	A Bayesian framework for the analysis of systems biology models of the brain. <i>PLoS Computational Biology</i> , 2019, 15, e1006631.	1.5	11
51	Pressure passivity of cerebral mitochondrial metabolism is associated with poor outcome following perinatal hypoxic ischemic brain injury. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 118-130.	2.4	27
52	Quantification of the severity of hypoxic-ischemic brain injury in a neonatal preclinical model using measurements of cytochrome-c-oxidase from a miniature broadband-near-infrared spectroscopy system. <i>Neurophotonics</i> , 2019, 6, 1.	1.7	17
53	A broadband multi-distance approach to measure tissue oxygen saturation with continuous wave near-infrared spectroscopy. , 2019, , .		2
54	Depth-resolved assessment of changes in concentration of chromophores using time-resolved near-infrared spectroscopy: estimation of cytochrome-c-oxidase uncertainty by Monte Carlo simulations. <i>Biomedical Optics Express</i> , 2019, 10, 4621.	1.5	6

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55	Illuminating Metabolism: Investigating Neonatal Brain Injury with Broadband Near-Infrared Spectroscopy. , 2019, , .		0
56	Multi-wavelength time-resolved NIRS measurements for estimation of absolute concentration of chromophores: blood phantom study. , 2019, , .		1
57	The BITMAP exercise: a multi-laboratory performance assessment campaign of diffuse optical instrumentation. , 2019, , .		2
58	The BitMap dataset: an open dataset on performance assessment of diffuse optics instruments. , 2019, , .		0
59	Multimodal measurements of brain tissue metabolism and perfusion in a neonatal model of hypoxic-ischaemic injury. , 2019, , .		0
60	Short and mid-term reproducibility analysis of cerebral tissue saturation measured by time domain-NIRS. , 2019, , .		1
61	A near-infrared hyperspectral imaging system for quantitative monitoring of hemodynamics and metabolism on the exposed cortex of mice. , 2019, , .		0
62	A new multichannel broadband NIRS system for quantitative monitoring of brain hemodynamics and metabolism during seizures. , 2019, , .		1
63	Hyperspectral imaging solutions for brain tissue metabolic and hemodynamic monitoring: past, current and future developments. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 044009.	1.0	32
64	The role of parietal cortex in overimitation: a study with fNIRS. <i>Social Neuroscience</i> , 2018, 13, 214-225.	0.7	6
65	Changes in Cytochrome-C-Oxidase Account for Changes in Attenuation of Near-Infrared Light in the Healthy Infant Brain. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1072, 7-12.	0.8	4
66	Investigation of the Pattern of the Hemodynamic Response as Measured by Functional Near-Infrared Spectroscopy (fNIRS) Studies in Newborns, Less Than a Month Old: A Systematic Review. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 371.	1.0	26
67	Broadband NIRS Cerebral Cytochrome-C-Oxidase Response to Anoxia Before and After Hypoxic-Ischaemic Injury in Piglets. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1072, 151-156.	0.8	7
68	Investigation of Confounding Factors in Measuring Tissue Saturation with NIRS Spatially Resolved Spectroscopy. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1072, 307-312.	0.8	14
69	A Fibreless Multiwavelength NIRS System for Imaging Localised Changes in Cerebral Oxidised Cytochrome C Oxidase. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1072, 339-343.	0.8	4
70	Simultaneous monitoring of cerebral perfusion and cytochrome c oxidase by combining broadband near-infrared spectroscopy and diffuse correlation spectroscopy. <i>Biomedical Optics Express</i> , 2018, 9, 2588.	1.5	39
71	A Review on the Use of Wearable Functional Near-Infrared Spectroscopy in Naturalistic Environments. <i>Japanese Psychological Research</i> , 2018, 60, 347-373.	0.4	177
72	Estimating Functional Connectivity Symmetry between Oxy- and Deoxy-Haemoglobin: Implications for fNIRS Connectivity Analysis. <i>Algorithms</i> , 2018, 11, 70.	1.2	12

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73	Current Status and Issues Regarding Pre-processing of fNIRS Neuroimaging Data: An Investigation of Diverse Signal Filtering Methods Within a General Linear Model Framework. <i>Frontiers in Human Neuroscience</i> , 2018, 12, 505.	1.0	251
74	Hyperspectral Imaging of the Hemodynamic and Metabolic States of the Exposed Cortex: Investigating a Commercial Snapshot Solution. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1072, 13-20.	0.8	4
75	ABroAD: A Machine Learning Based Approach to Detect Broadband NIRS Artefacts. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1072, 319-324.	0.8	4
76	Hybrid Broadband NIRS/Diffuse Correlation Spectroscopy System for Simultaneous Monitoring of Cerebral Perfusion and Cytochrome C Oxidase. , 2018, , .		0
77	Dexmedetomidine Combined with Therapeutic Hypothermia Is Associated with Cardiovascular Instability and Neurotoxicity in a Piglet Model of Perinatal Asphyxia. <i>Developmental Neuroscience</i> , 2017, 39, 156-170.	1.0	23
78	A novel GLM-based method for the Automatic IDentification of functional Events (AIDE) in fNIRS data recorded in naturalistic environments. <i>NeuroImage</i> , 2017, 155, 291-304.	2.1	63
79	Non-invasive measurement of a metabolic marker of infant brain function. <i>Scientific Reports</i> , 2017, 7, 1330.	1.6	27
80	Prediction of brain tissue temperature using near-infrared spectroscopy. <i>Neurophotonics</i> , 2017, 4, 021106.	1.7	6
81	Image reconstruction of oxidized cerebral cytochrome C oxidase changes from broadband near-infrared spectroscopy data. <i>Neurophotonics</i> , 2017, 4, 021105.	1.7	17
82	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
83	Evaluation of Haemoglobin and Cytochrome Responses During Forearm Ischaemia Using Multi-wavelength Time Domain NIRS. <i>Advances in Experimental Medicine and Biology</i> , 2017, 977, 67-72.	0.8	8
84	Functional NIRS Measurement of Cytochrome-C-Oxidase Demonstrates a More Brain-Specific Marker of Frontal Lobe Activation Compared to the Haemoglobins. <i>Advances in Experimental Medicine and Biology</i> , 2017, 977, 141-147.	0.8	22
85	WeBCMD: A cross-platform interface for the BCMD modelling framework. <i>Wellcome Open Research</i> , 2017, 2, 56.	0.9	1
86	Modelling and validation of diffuse reflectance of the adult human head for fNIRS: scalp sub-layers definition. , 2017, , .		1
87	Changes in Cerebral Oxidative Metabolism during Neonatal Seizures Following Hypoxic-Ischemic Brain Injury. <i>Frontiers in Pediatrics</i> , 2016, 4, 83.	0.9	20
88	Decomposition of Near-Infrared Spectroscopy Signals Using Oblique Subspace Projections: Applications in Brain Hemodynamic Monitoring. <i>Frontiers in Physiology</i> , 2016, 7, 515.	1.3	11
89	Towards a wearable near infrared spectroscopic probe for monitoring concentrations of multiple chromophores in biological tissue <i>in vivo</i> . <i>Review of Scientific Instruments</i> , 2016, 87, 065112.	0.6	44
90	Modelling confounding effects from extracerebral contamination and systemic factors on functional near-infrared spectroscopy. <i>NeuroImage</i> , 2016, 143, 91-105.	2.1	99

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91	Optical monitoring of retinal respiration in real time: 670Ånm light increases the redox state of mitochondria. <i>Experimental Eye Research</i> , 2016, 152, 88-93.	1.2	20
92	Multi-channel multi-distance broadband near-infrared spectroscopy system to measure the spatial response of cellular oxygen metabolism and tissue oxygenation. <i>Biomedical Optics Express</i> , 2016, 7, 4424.	1.5	28
93	Relationship Between Cerebral Oxygenation and Metabolism During Rewarming in Newborn Infants After Therapeutic Hypothermia Following Hypoxic-Ischemic Brain Injury. <i>Advances in Experimental Medicine and Biology</i> , 2016, 923, 245-251.	0.8	16
94	Spatial Distribution of Changes in Oxidised Cytochrome C Oxidase During Visual Stimulation Using Broadband Near Infrared Spectroscopy Imaging. <i>Advances in Experimental Medicine and Biology</i> , 2016, 923, 195-201.	0.8	7
95	Interrelationship Between Broadband NIRS Measurements of Cerebral Cytochrome C Oxidase and Systemic Changes Indicates Injury Severity in Neonatal Encephalopathy. <i>Advances in Experimental Medicine and Biology</i> , 2016, 923, 181-186.	0.8	10
96	From JÃ¼bbs to the present day: a review of clinical near-infrared spectroscopy measurements of cerebral cytochrome-c-oxidase. <i>Journal of Biomedical Optics</i> , 2016, 21, 091307.	1.4	144
97	False positives and false negatives in functional near-infrared spectroscopy: issues, challenges, and the way forward. <i>Neurophotonics</i> , 2016, 3, 031405.	1.7	378
98	Hypothermia protects brain mitochondrial function from hypoxemia in a murine model of sepsis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1955-1964.	2.4	23
99	Simulation of Preterm Neonatal Brain Metabolism During Functional Neuronal Activation Using a Computational Model. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 111-120.	0.8	5
100	Characterizing Fluctuations of Arterial and Cerebral Tissue Oxygenation in Preterm Neonates by Means of Data Analysis Techniques for Nonlinear Dynamical Systems. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 511-519.	0.8	5
101	Detection of Leishmania-specific DNA and surface antigens using a combination of functionalized magnetic beads and cadmium selenite quantum dots. <i>Journal of Microbiological Methods</i> , 2016, 123, 62-67.	0.7	27
102	Inhaled 45Å€50% argon augments hypothermic brain protection in a piglet model of perinatal asphyxia. <i>Neurobiology of Disease</i> , 2016, 87, 29-38.	2.1	52
103	Immediate remote ischemic postconditioning after hypoxia ischemia in piglets protects cerebral white matter but not grey matter. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 1396-1411.	2.4	24
104	Near Infrared Light Scattering Changes Following Acute Brain Injury. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 139-144.	0.8	7
105	In Vivo Imaging of Flavoprotein Fluorescence During Hypoxia Reveals the Importance of Direct Arterial Oxygen Supply to Cerebral Cortex Tissue. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 233-239.	0.8	13
106	In Vivo Measurement of Cerebral Mitochondrial Metabolism Using Broadband Near Infrared Spectroscopy Following Neonatal Stroke. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 493-500.	0.8	7
107	False positives and false negatives in functional near-infrared spectroscopy: issues, challenges, and the way forward. <i>Neurophotonics</i> , 2016, 3, 030401.	1.7	47
108	Cytochrome-C-Oxidase Exhibits Higher Brain-Specificity than Haemoglobin in Functional Activation. , 2016, , .		4

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109	A New Multichannel Broadband Near Infrared Spectroscopy System to Measure the Spatial Distribution of Cytochrome-c-Oxidase and Tissue Oxygenation. , 2016, , .		2
110	Relationship Between Cerebral Cytochrome-C-Oxidase and Oxygenation is Associated with Brain Injury Severity in Birth Asphyxiated Infants. , 2016, , .		1
111	Using Fiberless, Wearable fNIRS to Monitor Brain Activity in Real-world Cognitive Tasks. Journal of Visualized Experiments, 2015, , .	0.2	109
112	Monitoring Cerebral Autoregulation After Brain Injury. Anesthesia and Analgesia, 2015, 121, 198-205.	1.1	56
113	BrainSignals Revisited: Simplifying a Computational Model of Cerebral Physiology. PLoS ONE, 2015, 10, e0126695.	1.1	12
114	Modelling Blood Flow and Metabolism in the Preclinical Neonatal Brain during and Following Hypoxic-Ischaemia. PLoS ONE, 2015, 10, e0140171.	1.1	13
115	Optimal wavelength combinations for near-infrared spectroscopic monitoring of changes in brain tissue hemoglobin and cytochrome c oxidase concentrations. Biomedical Optics Express, 2015, 6, 933.	1.5	45
116	Development of a Near Infrared Multi-Wavelength, Multi-Channel, Time-Resolved Spectrometer for Measuring Brain Tissue Haemodynamics and Metabolism. Advances in Experimental Medicine and Biology, 2014, 812, 181-186.	0.8	8
117	Separation of superficial and cerebral hemodynamics using a single distance time-domain NIRS measurement. Biomedical Optics Express, 2014, 5, 1465.	1.5	17
118	Spatial sensitivity and penetration depth of three cerebral oxygenation monitors. Biomedical Optics Express, 2014, 5, 2896.	1.5	44
119	A new broadband near-infrared spectroscopy system for in-vivo measurements of cerebral cytochrome-c-oxidase changes in neonatal brain injury. Biomedical Optics Express, 2014, 5, 3450.	1.5	87
120	Investigation of Cerebral Autoregulation in the Newborn Piglet During Anaesthesia and Surgery. Advances in Experimental Medicine and Biology, 2014, 812, 165-171.	0.8	0
121	Brain mitochondrial oxidative metabolism during and after cerebral hypoxia“ischemia studied by simultaneous phosphorus magnetic-resonance and broadband near-infrared spectroscopy. NeuroImage, 2014, 102, 173-183.	2.1	70
122	A novel non-amplification assay for the detection of Leishmania spp. in clinical samples using gold nanoparticles. Journal of Microbiological Methods, 2014, 96, 56-61.	0.7	43
123	Dual role of cerebral blood flow in regional brain temperature control in the healthy newborn infant. International Journal of Developmental Neuroscience, 2014, 37, 1-7.	0.7	10
124	Cytochrome c oxidase response to changes in cerebral oxygen delivery in the adult brain shows higher brain-specificity than haemoglobin. NeuroImage, 2014, 85, 234-244.	2.1	71
125	Simulating NIRS and MRS Measurements During Cerebral Hypoxia-Ischaemia in Piglets Using a Computational Model. Advances in Experimental Medicine and Biology, 2014, 812, 187-194.	0.8	2
126	Analysis of Slow Wave Oscillations in Cerebral Haemodynamics and Metabolism Following Subarachnoid Haemorrhage. Advances in Experimental Medicine and Biology, 2014, 812, 195-201.	0.8	4

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127	Supercontinuum Multiwavelength, Multi-channel, Time-Resolved Near Infrared Spectrometer. , 2014, , .		0
128	In-Vivo Measurements of Cerebral Changes in Cytochrome-c-Oxidase using Broadband Near-Infrared Spectroscopy in Perinatal Hypoxic-Ischaemic Encephalopathy. , 2014, , .		1
129	Modelling Blood Flow and Metabolism in the Piglet Brain During Hypoxia-Ischaemia: Simulating Brain Energetics. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 339-344.	0.8	3
130	Long-Term Enhancement of Brain Function and Cognition Using Cognitive Training and Brain Stimulation. <i>Current Biology</i> , 2013, 23, 987-992.	1.8	283
131	Identifying and quantifying main components of physiological noise in functional near infrared spectroscopy on the prefrontal cortex. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 864.	1.0	100
132	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
133	Modelling Cerebrovascular Reactivity: A Novel Near-Infrared Biomarker of Cerebral Autoregulation?. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 87-93.	0.8	10
134	Oscillations in Cerebral Haemodynamics in Patients with Falciparum Malaria. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 101-107.	0.8	13
135	Wavelet Cross-Correlation to Investigate Regional Variations in Cerebral Oxygenation in Infants Supported on Extracorporeal Membrane Oxygenation. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 203-209.	0.8	10
136	Canonical Correlation Analysis in the Study of Cerebral and Peripheral Haemodynamics Interrelations with Systemic Variables in Neonates Supported on ECMO. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 23-29.	0.8	11
137	Investigation of Frontal Lobe Activation with fNIRS and Systemic Changes During Video Gaming. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 89-95.	0.8	14
138	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
139	Modelling Blood Flow and Metabolism in the Piglet Brain During Hypoxia-Ischaemia: Simulating pH Changes. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 331-337.	0.8	4
140	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
141	Computational modelling of the piglet brain to simulate near-infrared spectroscopy and magnetic resonance spectroscopy data collected during oxygen deprivation. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1499-1509.	1.5	20
142	Multichannel near infrared spectroscopy indicates regional variations in cerebral autoregulation in infants supported on extracorporeal membrane oxygenation. <i>Journal of Biomedical Optics</i> , 2012, 17, 067008.	1.4	56
143	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
144	The physiological origin of task-evoked systemic artefacts in functional near infrared spectroscopy. <i>NeuroImage</i> , 2012, 61, 70-81.	2.1	445

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145	Modelling Noninvasively Measured Cerebral Signals during a Hypoxemia Challenge: Steps towards Individualised Modelling. PLoS ONE, 2012, 7, e38297.	1.1	5
146	Optical Topography to Measure Variations in Regional Cerebral Oxygenation in an Infant Supported on Venous-Arterial Extra-Corporeal Membrane Oxygenation. Advances in Experimental Medicine and Biology, 2012, 737, 71-76.	0.8	6
147	Use of a Hybrid Optical Spectrometer for the Measurement of Changes in Oxidized Cytochrome c Oxidase Concentration and Tissue Scattering During Functional Activation. Advances in Experimental Medicine and Biology, 2012, 737, 119-124.	0.8	6
148	Development of a Model to Aid NIRS Data Interpretation: Results from a Hypercapnia Study in Healthy Adults. Advances in Experimental Medicine and Biology, 2012, 737, 293-300.	0.8	11
149	Optimal Wavelength Combinations for Resolving in-vivo Changes of Haemoglobin and Cytochrome-c-oxidase Concentrations with NIRS. , 2012, , .		2
150	Wavelet synchronization index to assess variations in regional cerebral oxygenation in infants on life support. , 2012, , .		0
151	Individualised Optimisation of Modelled Cerebral Oxygenation Near-Infrared Spectroscopy Signals. , 2012, , .		0
152	In-Vivo Measurements of Brain Haemodynamics and Energetics using Multimodal Spectroscopy in Perinatal Hypoxia-Ischaemia. , 2012, , .		0
153	Effects of arterial blood gas levels on cerebral blood flow and oxygen transport. Biomedical Optics Express, 2011, 2, 966.	1.5	16
154	Combined Proton Magnetic Resonance Spectroscopy and Near-Infrared Spectroscopy Measurements of Cerebral Blood Volume, Oxygenation, Cytochrome Oxidase, and Intracellular Metabolites During Perinatal Hypoxia-Ischaemia. Pediatric Research, 2011, 70, 114-114.	1.1	0
155	Regional cerebral oxygenation measured by multichannel near-infrared spectroscopy (optical) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Thoracic and Cardiovascular Surgery, 2011, 141, e31-e33.	0.4	9
156	Experimental validation of alternating transillumination for imaging intramural wave propagation. , 2011, 2011, 1676-9.		4
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