

Clare E Elwell

List of Publications by Year in descending order

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Version: 2024-02-01

146
papers

9,193
citations

36203

51
h-index

42291

92
g-index

149
all docs

149
docs citations

149
times ranked

6583
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction and validation of a database of head models for functional imaging of the neonatal brain. <i>Human Brain Mapping</i> , 2021, 42, 567-586.	1.9	8
2	Best practices for fNIRS publications. <i>Neurophotonics</i> , 2021, 8, 012101.	1.7	142
3	Lessons and risks of medical device deployment in a global pandemic. <i>The Lancet Global Health</i> , 2021, 9, e395-e396.	2.9	3
4	Longitudinal infant fNIRS channel-space analyses are robust to variability parameters at the group-level: An image reconstruction investigation. <i>NeuroImage</i> , 2021, 237, 118068.	2.1	12
5	Regional Haemodynamic and Metabolic Coupling in Infants. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 780076.	1.0	3
6	Brain Imaging for Global Health. <i>Journal of Neurosurgical Anesthesiology</i> , 2020, 32, 188-190.	0.6	2
7	ERP markers are associated with neurodevelopmental outcomes in 14-month old infants in rural Africa and the UK. <i>NeuroImage</i> , 2020, 210, 116591.	2.1	20
8	Frontal haemodynamic responses in depression and the effect of electroconvulsive therapy. <i>Journal of Psychopharmacology</i> , 2019, 33, 1003-1014.	2.0	8
9	fNIRS for Tracking Brain Development in the Context of Global Health Projects. <i>Photonics</i> , 2019, 6, 89.	0.9	23
10	Using functional near-infrared spectroscopy to assess social information processing in poor urban Bangladeshi infants and toddlers. <i>Developmental Science</i> , 2019, 22, e12839.	1.3	33
11	Adaptation of the Mullen Scales of Early Learning for use among infants aged 5 to 24 months in rural Gambia. <i>Developmental Science</i> , 2019, 22, e12808.	1.3	24
12	Habituation and novelty detection fNIRS brain responses in 5 and 8 month old infants: The Gambia and UK. <i>Developmental Science</i> , 2019, 22, e12817.	1.3	84
13	Implementing neuroimaging and eye tracking methods to assess neurocognitive development of young infants in low- and middle-income countries. <i>Gates Open Research</i> , 2019, 3, 1113.	2.0	23
14	Cortical responses before 6 months of life associate with later autism. <i>European Journal of Neuroscience</i> , 2018, 47, 736-749.	1.2	97
15	Cortical specialisation to social stimuli from the first days to the second year of life: A rural Gambian cohort. <i>Developmental Cognitive Neuroscience</i> , 2017, 25, 92-104.	1.9	110
16	Non-invasive measurement of a metabolic marker of infant brain function. <i>Scientific Reports</i> , 2017, 7, 1330.	1.6	27
17	Ketamine augmentation of electroconvulsive therapy to improve neuropsychological and clinical outcomes in depression (Ketamine-ECT): a multicentre, double-blind, randomised, parallel-group, superiority trial. <i>Lancet Psychiatry</i> , 2017, 4, 365-377.	3.7	82
18	Image reconstruction of oxidized cerebral cytochrome C oxidase changes from broadband near-infrared spectroscopy data. <i>Neurophotonics</i> , 2017, 4, 021105.	1.7	17

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19	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
20	Randomised controlled trial of ketamine augmentation of electroconvulsive therapy to improve neuropsychological and clinical outcomes in depression (Ketamine-ECT study). <i>Efficacy and Mechanism Evaluation</i> , 2017, 4, 1-112.	0.9	6
21	Mitochondrial Dysfunction in Autism Spectrum Disorders. <i>Autism-open Access</i> , 2016, 6, .	0.2	75
22	Functional imaging of the human brain using a modular, fibre-less, high-density diffuse optical tomography system. <i>Biomedical Optics Express</i> , 2016, 7, 4275.	1.5	67
23	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
24	Modelling confounding effects from extracerebral contamination and systemic factors on functional near-infrared spectroscopy. <i>NeuroImage</i> , 2016, 143, 91-105.	2.1	99
25	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
26	From J _{AT} 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
27	Near Infrared Light Scattering Changes Following Acute Brain Injury. <i>Advances in Experimental Medicine and Biology</i> , 2016, 876, 139-144.	0.8	7
28	A New Multichannel Broadband Near Infrared Spectroscopy System to Measure the Spatial Distribution of Cytochrome-c-Oxidase and Tissue Oxygenation. , 2016, , .		2
29	Monitoring Cerebral Autoregulation After Brain Injury. <i>Anesthesia and Analgesia</i> , 2015, 121, 198-205.	1.1	56
30	BrainSignals Revisited: Simplifying a Computational Model of Cerebral Physiology. <i>PLoS ONE</i> , 2015, 10, e0126695.	1.1	12
31	Cortical Activation to Action Perception is Associated with Action Production Abilities in Young Infants. <i>Cerebral Cortex</i> , 2015, 25, 289-297.	1.6	64
32	Shedding Light on Brain Development. <i>NIR News</i> , 2014, 25, 25-27.	1.6	0
33	Test-retest reliability of functional near infrared spectroscopy in infants. <i>Neurophotonics</i> , 2014, 1, 025005.	1.7	45
34	Coregistering functional near-infrared spectroscopy with underlying cortical areas in infants. <i>Neurophotonics</i> , 2014, 1, 025006.	1.7	93
35	Spatial sensitivity and penetration depth of three cerebral oxygenation monitors. <i>Biomedical Optics Express</i> , 2014, 5, 2896.	1.5	44
36	Twenty years of functional near-infrared spectroscopy: introduction for the special issue. <i>NeuroImage</i> , 2014, 85, 1-5.	2.1	465

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37	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
38	Analysis of Slow Wave Oscillations in Cerebral Haemodynamics and Metabolism Following Subarachnoid Haemorrhage. <i>Advances in Experimental Medicine and Biology</i> , 2014, 812, 195-201.	0.8	4
39	A portable wireless near-infrared spatially resolved spectroscopy system for use on brain and muscle. <i>Medical Engineering and Physics</i> , 2013, 35, 1692-1697.	0.8	28
40	Mathematical Modelling of Near-Infrared Spectroscopy Signals and Intracranial Pressure in Brain-Injured Patients. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 345-351.	0.8	3
41	Reduced neural sensitivity to social stimuli in infants at risk for autism. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20123026.	1.2	118
42	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
43	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
44	Oscillations in Cerebral Haemodynamics in Patients with Falciparum Malaria. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 101-107.	0.8	13
45	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
46	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
47	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
48	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
49	Cortical Mapping of 3D Optical Topography in Infants. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 455-461.	0.8	5
50	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
51	Time course of the haemodynamic response to visual stimulation in migraine, measured using near-infrared spectroscopy. <i>Cephalalgia</i> , 2012, 32, 621-629.	1.8	37
52	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
53	The emergence of cerebral specialization for the human voice over the first months of life. <i>Social Neuroscience</i> , 2012, 7, 317-330.	0.7	59
54	Three-dimensional optical topography of brain activity in infants watching videos of human movement. <i>Physics in Medicine and Biology</i> , 2012, 57, 1135-1146.	1.6	12

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55	Cerebral Near-Infrared Spectroscopy in Adults. <i>Anesthesia and Analgesia</i> , 2012, 115, 1373-1383.	1.1	248
56	Modelling Noninvasively Measured Cerebral Signals during a Hypoxemia Challenge: Steps towards Individualised Modelling. <i>PLoS ONE</i> , 2012, 7, e38297.	1.1	5
57	Warm-up effects on muscle oxygenation, metabolism and sprint cycling performance. <i>European Journal of Applied Physiology</i> , 2012, 112, 3129-3139.	1.2	31
58	Optical Topography to Measure Variations in Regional Cerebral Oxygenation in an Infant Supported on Veno-Arterial Extra-Corporeal Membrane Oxygenation. <i>Advances in Experimental Medicine and Biology</i> , 2012, 737, 71-76.	0.8	6
59	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
60	Development of a Model to Aid NIRS Data Interpretation: Results from a Hypercapnia Study in Healthy Adults. <i>Advances in Experimental Medicine and Biology</i> , 2012, 737, 293-300.	0.8	11
61	Wavelet synchronization index to assess variations in regional cerebral oxygenation in infants on life support. , 2012, , .		0
62	Individualised Optimisation of Modelled Cerebral Oxygenation Near-Infrared Spectroscopy Signals. , 2012, , .		0
63	Localised muscle tissue oxygenation during dynamic exercise with whole body vibration. <i>Journal of Sports Science and Medicine</i> , 2012, 11, 346-51.	0.7	7
64	Assessment of the cerebral cortex during motor task behaviours in adults: A systematic review of functional near infrared spectroscopy (fNIRS) studies. <i>NeuroImage</i> , 2011, 54, 2922-2936.	2.1	361
65	Britton Chance 1913â€“2010. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4380-4389.	1.6	1
66	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
67	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
68	Selective Cortical Mapping of Biological Motion Processing in Young Infants. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2521-2532.	1.1	79
69	Analysis of the Changes in the Oxidation of Brain Tissue Cytochrome-c-Oxidase in Traumatic Brain Injury Patients during Hypercapnoea. <i>Advances in Experimental Medicine and Biology</i> , 2011, 701, 9-14.	0.8	26
70	â€œCircadian Cortical Compensationâ€•. <i>Annals of Surgery</i> , 2010, 252, 1082-1090.	2.1	27
71	Illuminating the developing brain: The past, present and future of functional near infrared spectroscopy. <i>Neuroscience and Biobehavioral Reviews</i> , 2010, 34, 269-284.	2.9	699
72	Noninvasive cerebral oximetry: is there light at the end of the tunnel?. <i>Current Opinion in Anaesthesiology</i> , 2010, 23, 576-581.	0.9	81

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73	A new method to measure local oxygen consumption in human skeletal muscle during dynamic exercise using near-infrared spectroscopy. <i>Physiological Measurement</i> , 2010, 31, 1257-1269.	1.2	36
74	Optimization of the acousto-optic signal detection in cylindrical geometry. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
75	Muscle Oxygen Saturation Measured Using "Cyclic NIR Signals" During Exercise. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 183-189.	0.8	9
76	A Hybrid Multi-Distance Phase and Broadband Spatially Resolved Spectrometer and Algorithm for Resolving Absolute Concentrations of Chromophores in the Near-Infrared Light Spectrum. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 169-175.	0.8	20
77	Comparison of Local Adipose Tissue Content and SRS-Derived NIRS Muscle Oxygenation Measurements in 90 Individuals. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 177-181.	0.8	16
78	Functional Optical Topography Analysis Using Statistical Parametric Mapping (SPM) Methodology with and without Physiological Confounds. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 237-243.	0.8	25
79	Automatic Detection of Motion Artifacts in Infant Functional Optical Topography Studies. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 279-284.	0.8	14
80	Modelling of Mitochondrial Oxygen Consumption and NIRS Detection of Cytochrome Oxidase Redox State. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 285-291.	0.8	7
81	Cerebral and Peripheral Tissue Oxygenation in Children Supported on ECMO for Cardio-Respiratory Failure. <i>Advances in Experimental Medicine and Biology</i> , 2010, 662, 447-453.	0.8	12
82	Multi-Wavelength, Depth Resolved, Scattering and Pathlength Corrected in-vivo Near-Infrared Spectroscopy of Brain Tissue. , 2010, , .		3
83	Development Of A Dynamic Test Phantom For Optical Topography. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 141-146.	0.8	8
84	Near-Infrared Spectroscopy: Shedding Light on the Injured Brain. <i>Anesthesia and Analgesia</i> , 2009, 108, 1055-1057.	1.1	47
85	Estimating a modified Grubb's exponent in healthy human brains with near infrared spectroscopy and transcranial Doppler. <i>Physiological Measurement</i> , 2009, 30, 1-12.	1.2	157
86	Social Perception in Infancy: A Near Infrared Spectroscopy Study. <i>Child Development</i> , 2009, 80, 986-999.	1.7	187
87	The Effect on Cerebral Tissue Oxygenation Index of Changes in the Concentrations of Inspired Oxygen and End-Tidal Carbon Dioxide in Healthy Adult Volunteers. <i>Anesthesia and Analgesia</i> , 2009, 109, 906-913.	1.1	64
88	Reply to "Comment on "Estimating a modified Grubb's exponent in healthy human brains with near infrared spectroscopy and transcranial Doppler"™. <i>Physiological Measurement</i> , 2009, 30, L13-L14.	1.2	0
89	Bicuculline-Induced Seizures: A Challenge for Optical and Biochemical Modeling of the Cytochrome Oxidase CuA Nirs Signal. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 129-134.	0.8	4
90	False Positives In Functional Nearinfrared Topography. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 307-314.	0.8	58

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91	Relationship Between Brain Tissue Haemodynamics, Oxygenation And Metabolism In The Healthy Human Adult Brain During Hyperoxia And Hypercapnea. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 315-320.	0.8	42
92	Changes in prefrontal cortical behaviour depend upon familiarity on a bimanual co-ordination task: An fNIRS study. <i>NeuroImage</i> , 2008, 39, 805-813.	2.1	98
93	Increase in cerebral aerobic metabolism by normobaric hyperoxia after traumatic brain injury. <i>Journal of Neurosurgery</i> , 2008, 109, 424-432.	0.9	104
94	A Model of Brain Circulation and Metabolism: NIRS Signal Changes during Physiological Challenges. <i>PLoS Computational Biology</i> , 2008, 4, e1000212.	1.5	77
95	Early cortical specialization for face-to-face communication in human infants. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2803-2811.	1.2	180
96	Changes in the Attenuation of Near Infrared Spectra by the Healthy Adult Brain During Hypoxaemia Cannot be Accounted for Solely by Changes in the Concentrations of Oxy- and Deoxy-Haemoglobin. , 2008, 614, 217-225.		12
97	Cerebral Tissue Oxygen Saturation Calculated Using Low Frequency Haemoglobin Oscillations Measured by Near Infrared Spectroscopy in Adult Ventilated Patients. , 2008, 614, 235-244.		10
98	Investigation of Frontal Cortex, Motor Cortex and Systemic Haemodynamic Changes During Anagram Solving. <i>Advances in Experimental Medicine and Biology</i> , 2008, 614, 21-28.	0.8	35
99	Measurement of Cerebral Tissue Oxygenation in Young Healthy Volunteers During Acetazolamide Provocation: A Transcranial Doppler and Near-Infrared Spectroscopy Investigation. <i>Advances in Experimental Medicine and Biology</i> , 2008, 614, 389-396.	0.8	30
100	Measurement of Frontal Lobe Functional Activation and Related Systemic Effects: A Near-Infrared Spectroscopy Investigation. <i>Advances in Experimental Medicine and Biology</i> , 2008, 614, 397-403.	0.8	52
101	Investigating Cross-talk in Cytochrome C Oxidase Concentration Quantification using Near Infrared Spectroscopy in a Two-layered Model. , 2008, , .		1
102	Quantitative spatially resolved measurement of tissue chromophore concentrations using photoacoustic spectroscopy: application to the measurement of blood oxygenation and haemoglobin concentration. <i>Physics in Medicine and Biology</i> , 2007, 52, 141-168.	1.6	282
103	Near-infrared spectroscopic quantification of changes in the concentration of oxidized cytochrome c oxidase in the healthy human brain during hypoxemia. <i>Journal of Biomedical Optics</i> , 2007, 12, 024002.	1.4	60
104	Functional optical signal analysis: a software tool for near-infrared spectroscopy data processing incorporating statistical parametric mapping. <i>Journal of Biomedical Optics</i> , 2007, 12, 064010.	1.4	80
105	Theoretical investigation of measuring cerebral blood flow in the adult human head using bolus Indocyanine Green injection and near-infrared spectroscopy. <i>Applied Optics</i> , 2007, 46, 1604.	2.1	32
106	Changes in cerebral oxygenation and haemodynamics during postural blood pressure changes in patients with autonomic failure. <i>Physiological Measurement</i> , 2006, 27, 777-785.	1.2	43
107	Measurement of the absolute optical properties and cerebral blood volume of the adult human head with hybrid differential and spatially resolved spectroscopy. <i>Physics in Medicine and Biology</i> , 2006, 51, 703-717.	1.6	18
108	Near Infrared Spectroscopy as a Non-Invasive Assessment of Cortical Abnormality in Migraine?. , 2006, 578, 203-208.		3

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109	Investigation of Oxygen Saturation Derived from Cardiac Pulsations Measured on the Adult Head Using NIR Spectroscopy. <i>Advances in Experimental Medicine and Biology</i> , 2006, 578, 209-215.	0.8	4
110	Quantification of Adult Cerebral Blood Volume using the NIRS Tissue Oxygenation Index. , 2006, 578, 237-243.		8
111	Optical Mapping of the Frontal Cortex During a Surgical Knot-Tying Task, a Feasibility Study. <i>Lecture Notes in Computer Science</i> , 2006, , 140-147.	1.0	12
112	Cerebral blood flow assessment with indocyanine green bolus transit detection by near-infrared spectroscopy before and after acetazolamide challenge in humans. , 2006, , .		2
113	Near Infrared Topography with Depth Information for the Detection of Face Perception in Infants. , 2006, , .		0
114	Changes in concentrations of oxidised cytochrome oxidase measured using both broadband and four wavelength near infrared spectroscopy reflect changes in oxygen delivery during hypoxaemia in healthy volunteers. , 2006, , .		1
115	Shedding Light on the Brain. <i>NIR News</i> , 2005, 16, 28-30.	1.6	2
116	Estimation of cerebral oxy- and deoxy-haemoglobin concentration changes in a layered adult head model using near-infrared spectroscopy and multivariate statistical analysis. <i>Physics in Medicine and Biology</i> , 2005, 50, 5783-5798.	1.6	27
117	Optimal Determination of Detector Placement in Cerebral NIR Spectroscopy of Neonates Using Chemometric Techniques. , 2005, 566, 9-15.		0
118	Measurement of CMRO2 in Neonates Undergoing Intensive Care Using Near Infrared Spectroscopy. , 2005, 566, 263-268.		40
119	Rate of Change in Cerebral Oxygenation and Blood Pressure in Response to Passive Changes in Posture. , 2005, 566, 187-193.		5
120	In vitromeasurements of absolute blood oxygen saturation using pulsed near-infrared photoacoustic spectroscopy: accuracy and resolution. <i>Physics in Medicine and Biology</i> , 2005, 50, 4409-4428.	1.6	194
121	Investigation of the changes in cerebral tissue oxygenation measured with near infrared spectroscopy in response to moderate hypercapnia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S193-S193.	2.4	1
122	Investigation of the cerebral haemoglobin and cytochrome signals using near infrared spectroscopy during head up tilt in patients with orthostatic hypotension. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S571-S571.	2.4	0
123	A New Method for the Measurement of Cerebral Blood Volume and Total Circulating Blood Volume Using Near Infrared Spatially Resolved Spectroscopy and Indocyanine Green: Application and Validation in Neonates. <i>Pediatric Research</i> , 2004, 55, 134-141.	1.1	50
124	Investigation of cerebral haemodynamics by near-infrared spectroscopy in young healthy volunteers reveals posture-dependent spontaneous oscillations. <i>Physiological Measurement</i> , 2004, 25, 437-445.	1.2	109
125	Pulsed near-infrared photoacoustic spectroscopy of blood. , 2004, , .		12
126	Measuring Cerebral Oxygenation During Normobaric Hyperoxia: A Comparison of Tissue Microprobes, Near-Infrared Spectroscopy, and Jugular Venous Oximetry in Head Injury. <i>Anesthesia and Analgesia</i> , 2003, 97, 851-856.	1.1	76

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127	Measurement of Changes in Cytochrome Oxidase Redox State During Obstructive Sleep Apnea Using Near-Infrared Spectroscopy. <i>Sleep</i> , 2003, 26, 710-716.	0.6	55
128	Simultaneous Measurement of Cerebral Tissue Oxygenation over the Adult Frontal and Motor Cortex During Rest and Functional Activation. <i>Advances in Experimental Medicine and Biology</i> , 2003, 510, 385-389.	0.8	5
129	Measurement of the Optical Properties of the Adult Human Head with Spatially Resolved Spectroscopy and Changes of Posture. <i>Advances in Experimental Medicine and Biology</i> , 2003, 540, 13-18.	0.8	3
130	Noninvasive Measurement of Cerebral Blood Flow in Adults Using Near-Infrared Spectroscopy and Indocyanine Green: A Pilot Study. <i>Journal of Neurosurgical Anesthesiology</i> , 2002, 14, 218-222.	0.6	64
131	A comparison of cerebral oxygenation as measured by the NIRO 300 and the INVOS 5100 Near-Infrared Spectrophotometers. <i>Anaesthesia</i> , 2002, 57, 999-1006.	1.8	143
132	Changes in Cerebral Blood Volume with Changes in Position in Awake and Anesthetized Subjects. <i>Anesthesia and Analgesia</i> , 2000, 90, 372.	1.1	52
133	Near infrared spectroscopy. <i>British Journal of Anaesthesia</i> , 1999, 82, 418-426.	1.5	283
134	Continuous Measurement of Cerebral Oxygenation by Near Infrared Spectroscopy During Induction of Anesthesia. <i>Anesthesia and Analgesia</i> , 1999, 88, 554-558.	1.1	48
135	Continuous Measurement of Cerebral Oxygenation by Near Infrared Spectroscopy During Induction of Anesthesia. <i>Anesthesia and Analgesia</i> , 1999, 88, 554-558.	1.1	70
136	Cerebral Blood Flow Is Independent of Mean Arterial Blood Pressure in Preterm Infants Undergoing Intensive Care. <i>Pediatrics</i> , 1998, 102, 337-341.	1.0	224
137	Experimental and theoretical comparison of NIR spectroscopy measurements of cerebral hemoglobin changes. <i>Journal of Applied Physiology</i> , 1998, 85, 1915-1921.	1.2	34
138	Regional Hemodynamic Responses to Visual Stimulation in Awake Infants. <i>Pediatric Research</i> , 1998, 43, 840-843.	1.1	263
139	The Cytochrome Oxidase Redox State in Vivo. <i>Advances in Experimental Medicine and Biology</i> , 1997, 428, 449-456.	0.8	12
140	Influence of Respiration and Changes in Expiratory Pressure on Cerebral Haemoglobin Concentration Measured by near Infrared Spectroscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1996, 16, 353-357.	2.4	37
141	Use of near infrared spectroscopy to estimate cerebral blood flow in conscious and anaesthetized adult subjects. <i>British Journal of Anaesthesia</i> , 1996, 76, 43-48.	1.5	47
142	The effect of scalp ischaemia on measurement of cerebral blood volume by near-infrared spectroscopy. <i>Physiological Measurement</i> , 1996, 17, 279-286.	1.2	57
143	Measurement of Cranial Optical Path Length as a Function of Age Using Phase Resolved Near Infrared Spectroscopy. <i>Pediatric Research</i> , 1996, 39, 889-894.	1.1	372
144	Performance Comparison of Several Published Tissue Near-Infrared Spectroscopy Algorithms. <i>Analytical Biochemistry</i> , 1995, 227, 54-68.	1.1	568

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145	Noninvasive measurement of human forearm oxygen consumption by near infrared spectroscopy. European Journal of Applied Physiology and Occupational Physiology, 1993, 67, 20-25.	1.2	208
146	Cerebral Hemodynamic Effects of Treatment with Modified Natural Surfactant Investigated by Near Infrared Spectroscopy. Pediatric Research, 1992, 32, 532-536.	1.1	77