

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
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42291

92
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149
all docs

149
docs citations

149
times ranked

6583
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | 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 |
| 2 | Performance Comparison of Several Published Tissue Near-Infrared Spectroscopy Algorithms. <i>Analytical Biochemistry</i> , 1995, 227, 54-68. | 1.1 | 568 |
| 3 | Twenty years of functional near-infrared spectroscopy: introduction for the special issue. <i>NeuroImage</i> , 2014, 85, 1-5. | 2.1 | 465 |
| 4 | 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 |
| 5 | 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 |
| 6 | Near infrared spectroscopy. <i>British Journal of Anaesthesia</i> , 1999, 82, 418-426. | 1.5 | 283 |
| 7 | 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 |
| 8 | Regional Hemodynamic Responses to Visual Stimulation in Awake Infants. <i>Pediatric Research</i> , 1998, 43, 840-843. | 1.1 | 263 |
| 9 | Cerebral Near-Infrared Spectroscopy in Adults. <i>Anesthesia and Analgesia</i> , 2012, 115, 1373-1383. | 1.1 | 248 |
| 10 | 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 |
| 11 | Noninvasive measurement of human forearm oxygen consumption by near infrared spectroscopy. <i>European Journal of Applied Physiology and Occupational Physiology</i> , 1993, 67, 20-25. | 1.2 | 208 |
| 12 | 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 |
| 13 | Social Perception in Infancy: A Near Infrared Spectroscopy Study. <i>Child Development</i> , 2009, 80, 986-999. | 1.7 | 187 |
| 14 | 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 |
| 15 | 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 |
| 16 | From J _A 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 |
| 17 | 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 |
| 18 | Best practices for fNIRS publications. <i>Neurophotonics</i> , 2021, 8, 012101. | 1.7 | 142 |

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|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | Increase in cerebral aerobic metabolism by normobaric hyperoxia after traumatic brain injury. <i>Journal of Neurosurgery</i> , 2008, 109, 424-432. | 0.9 | 104 |
| 23 | Modelling confounding effects from extracerebral contamination and systemic factors on functional near-infrared spectroscopy. <i>NeuroImage</i> , 2016, 143, 91-105. | 2.1 | 99 |
| 24 | 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 |
| 25 | Cortical responses before 6 months of life associate with later autism. <i>European Journal of Neuroscience</i> , 2018, 47, 736-749. | 1.2 | 97 |
| 26 | Coregistering functional near-infrared spectroscopy with underlying cortical areas in infants. <i>Neurophotonics</i> , 2014, 1, 025006. | 1.7 | 93 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | 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 |
| 31 | Selective Cortical Mapping of Biological Motion Processing in Young Infants. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 2521-2532. | 1.1 | 79 |
| 32 | Cerebral Hemodynamic Effects of Treatment with Modified Natural Surfactant Investigated by Near Infrared Spectroscopy. <i>Pediatric Research</i> , 1992, 32, 532-536. | 1.1 | 77 |
| 33 | A Model of Brain Circulation and Metabolism: NIRS Signal Changes during Physiological Challenges. <i>PLoS Computational Biology</i> , 2008, 4, e1000212. | 1.5 | 77 |
| 34 | 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 |
| 35 | Mitochondrial Dysfunction in Autism Spectrum Disorders. <i>Autism-open Access</i> , 2016, 6, . | 0.2 | 75 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | False Positives In Functional Nearinfrared Topography. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 307-314. | 0.8 | 58 |
| 45 | 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 |
| 46 | 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 |
| 47 | Monitoring Cerebral Autoregulation After Brain Injury. <i>Anesthesia and Analgesia</i> , 2015, 121, 198-205. | 1.1 | 56 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | Near-Infrared Spectroscopy: Shedding Light on the Injured Brain. <i>Anesthesia and Analgesia</i> , 2009, 108, 1055-1057. | 1.1 | 47 |
| 56 | Testâ€“retest reliability of functional near infrared spectroscopy in infants. <i>Neurophotonics</i> , 2014, 1, 025005. | 1.7 | 45 |
| 57 | Spatial sensitivity and penetration depth of three cerebral oxygenation monitors. <i>Biomedical Optics Express</i> , 2014, 5, 2896. | 1.5 | 44 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | Measurement of CMRO2 in Neonates Undergoing Intensive Care Using Near Infrared Spectroscopy. , 2005, 566, 263-268. | | 40 |
| 62 | 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 |
| 63 | 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 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | Using functional nearâ€“infrared spectroscopy to assess social information processing in poor urban Bangladeshi infants and toddlers. <i>Developmental Science</i> , 2019, 22, e12839. | 1.3 | 33 |
| 68 | 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 |
| 69 | 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 |
| 70 | 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 |
| 71 | 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 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | 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 |
| 74 | 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 |
| 75 | “Circadian Cortical Compensation” <i>Annals of Surgery</i> , 2010, 252, 1082-1090. | 2.1 | 27 |
| 76 | Non-invasive measurement of a metabolic marker of infant brain function. <i>Scientific Reports</i> , 2017, 7, 1330. | 1.6 | 27 |
| 77 | 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 |
| 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 | 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 |
| 80 | fNIRS for Tracking Brain Development in the Context of Global Health Projects. <i>Photonics</i> , 2019, 6, 89. | 0.9 | 23 |
| 81 | 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 |
| 82 | ERP markers are associated with neurodevelopmental outcomes in 15 month old infants in rural Africa and the UK. <i>NeuroImage</i> , 2020, 210, 116591. | 2.1 | 20 |
| 83 | 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 |
| 84 | 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 |
| 85 | Image reconstruction of oxidized cerebral cytochrome C oxidase changes from broadband near-infrared spectroscopy data. <i>Neurophotonics</i> , 2017, 4, 021105. | 1.7 | 17 |
| 86 | 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 |
| 87 | 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 |
| 88 | 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 |
| 89 | Oscillations in Cerebral Haemodynamics in Patients with Falciparum Malaria. <i>Advances in Experimental Medicine and Biology</i> , 2013, 765, 101-107. | 0.8 | 13 |
| 90 | Pulsed near-infrared photoacoustic spectroscopy of blood. , 2004, , . | | 12 |

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|-----|---|-----|-----------|
| 91 | 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 |
| 92 | BrainSignals Revisited: Simplifying a Computational Model of Cerebral Physiology. <i>PLoS ONE</i> , 2015, 10, e0126695. | 1.1 | 12 |
| 93 | 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 |
| 94 | 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 |
| 95 | 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 |
| 96 | 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 |
| 97 | The Cytochrome Oxidase Redox State in Vivo. <i>Advances in Experimental Medicine and Biology</i> , 1997, 428, 449-456. | 0.8 | 12 |
| 98 | 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 |
| 99 | 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 |
| 100 | Cerebral Tissue Oxygen Saturation Calculated Using Low Frequency Haemoglobin Oscillations Measured by Near Infrared Spectroscopy in Adult Ventilated Patients. , 2008, 614, 235-244. | | 10 |
| 101 | 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 |
| 102 | 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 |
| 103 | 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 |
| 104 | Regional cerebral oxygenation measured by multichannel near-infrared spectroscopy (optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Thoracic and Cardiovascular Surgery, 2011, 141, e31-e33. | 0.4 | 9 |
| 105 | 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 |
| 106 | Development Of A Dynamic Test Phantom For Optical Topography. <i>Advances in Experimental Medicine and Biology</i> , 2009, 645, 141-146. | 0.8 | 8 |
| 107 | Frontal haemodynamic responses in depression and the effect of electroconvulsive therapy. <i>Journal of Psychopharmacology</i> , 2019, 33, 1003-1014. | 2.0 | 8 |
| 108 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Quantification of Adult Cerebral Blood Volume using the NIRS Tissue Oxygenation Index. , 2006, 578, 237-243. | | 8 |
| 110 | Modelling of Mitochondrial Oxygen Consumption and NIRS Detection of Cytochrome Oxidase Redox State. Advances in Experimental Medicine and Biology, 2010, 662, 285-291. | 0.8 | 7 |
| 111 | Near Infrared Light Scattering Changes Following Acute Brain Injury. Advances in Experimental Medicine and Biology, 2016, 876, 139-144. | 0.8 | 7 |
| 112 | Localised muscle tissue oxygenation during dynamic exercise with whole body vibration. Journal of Sports Science and Medicine, 2012, 11, 346-51. | 0.7 | 7 |
| 113 | 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 |
| 114 | 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 |
| 115 | Randomised controlled trial of ketamine augmentation of electroconvulsive therapy to improve neuropsychological and clinical outcomes in depression (Ketamine-ECT study). Efficacy and Mechanism Evaluation, 2017, 4, 1-112. | 0.9 | 6 |
| 116 | Rate of Change in Cerebral Oxygenation and Blood Pressure in Response to Passive Changes in Posture. , 2005, 566, 187-193. | | 5 |
| 117 | Modelling Noninvasively Measured Cerebral Signals during a Hypoxemia Challenge: Steps towards Individualised Modelling. PLoS ONE, 2012, 7, e38297. | 1.1 | 5 |
| 118 | Cortical Mapping of 3D Optical Topography in Infants. Advances in Experimental Medicine and Biology, 2013, 789, 455-461. | 0.8 | 5 |
| 119 | Simultaneous Measurement of Cerebral Tissue Oxygenation over the Adult Frontal and Motor Cortex During Rest and Functional Activation. Advances in Experimental Medicine and Biology, 2003, 510, 385-389. | 0.8 | 5 |
| 120 | Investigation of Oxygen Saturation Derived from Cardiac Pulsations Measured on the Adult Head Using NIR Spectroscopy. Advances in Experimental Medicine and Biology, 2006, 578, 209-215. | 0.8 | 4 |
| 121 | Bicuculline-Induced Seizures: A Challenge for Optical and Biochemical Modeling of the Cytochrome Oxidase CuA Nirs Signal. Advances in Experimental Medicine and Biology, 2009, 645, 129-134. | 0.8 | 4 |
| 122 | Reduction of Cytochrome c Oxidase During Vasovagal Hypoxia-Ischemia in Human Adult Brain: A Case Study. Advances in Experimental Medicine and Biology, 2013, 789, 21-27. | 0.8 | 4 |
| 123 | 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 |
| 124 | Making light work: illuminating the future of biomedical optics. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4355-4357. | 1.6 | 3 |
| 125 | Mathematical Modelling of Near-Infrared Spectroscopy Signals and Intracranial Pressure in Brain-Injured Patients. Advances in Experimental Medicine and Biology, 2013, 789, 345-351. | 0.8 | 3 |
| 126 | Lessons and risks of medical device deployment in a global pandemic. The Lancet Global Health, 2021, 9, e395-e396. | 2.9 | 3 |

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|-----|---|-----|-----------|
| 127 | Near Infrared Spectroscopy as a Non-Invasive Assessment of Cortical Abnormality in Migraine?. , 2006, 578, 203-208. | | 3 |
| 128 | Measurement of the Optical Properties of the Adult Human Head with Spatially Resolved Spectroscopy and Changes of Posture. Advances in Experimental Medicine and Biology, 2003, 540, 13-18. | 0.8 | 3 |
| 129 | Multi-Wavelength, Depth Resolved, Scattering and Pathlength Corrected in-vivo Near-Infrared Spectroscopy of Brain Tissue. , 2010, , . | | 3 |
| 130 | Regional Haemodynamic and Metabolic Coupling in Infants. Frontiers in Human Neuroscience, 2021, 15, 780076. | 1.0 | 3 |
| 131 | Shedding Light on the Brain. NIR News, 2005, 16, 28-30. | 1.6 | 2 |
| 132 | Optimization of the acousto-optic signal detection in cylindrical geometry. Proceedings of SPIE, 2010, , . | 0.8 | 2 |
| 133 | Brain Imaging for Global Health. Journal of Neurosurgical Anesthesiology, 2020, 32, 188-190. | 0.6 | 2 |
| 134 | Cerebral blood flow assessment with indocyanine green bolus transit detection by near-infrared spectroscopy before and after acetazolamide challenge in humans. , 2006, , . | | 2 |
| 135 | A New Multichannel Broadband Near Infrared Spectroscopy System to Measure the Spatial Distribution of Cytochrome-c-Oxidase and Tissue Oxygenation. , 2016, , . | | 2 |
| 136 | Britton Chance 1913â€“2010. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4380-4389. | 1.6 | 1 |
| 137 | Investigation of the changes in cerebral tissue oxygenation measured with near infrared spectroscopy in response to moderate hypercapnia. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S193-S193. | 2.4 | 1 |
| 138 | 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 |
| 139 | Investigating Cross-talk in Cytochrome C Oxidase Concentration Quantification using Near Infrared Spectroscopy in a Two-layered Model. , 2008, , . | | 1 |
| 140 | Optimal Determination of Detector Placement in Cerebral NIR Spectroscopy of Neonates Using Chemometric Techniques. , 2005, 566, 9-15. | | 0 |
| 141 | Reply to â€“Comment on â€œEstimating a modified Grubb's exponent in healthy human brains with near infrared spectroscopy and transcranial Dopplerâ€™. Physiological Measurement, 2009, 30, L13-L14. | 1.2 | 0 |
| 142 | Shedding Light on Brain Development. NIR News, 2014, 25, 25-27. | 1.6 | 0 |
| 143 | Investigation of the cerebral haemoglobin and cytochrome signals using near infrared spectroscopy during head up tilt in patients with orthostatic hypotension. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S571-S571. | 2.4 | 0 |
| 144 | Near Infrared Topography with Depth Information for the Detection of Face Perception in Infants. , 2006, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|----|-----------|
| 145 | Wavelet synchronization index to assess variations in regional cerebral oxygenation in infants on life support. , 2012, , . | | 0 |
| 146 | Individualised Optimisation of Modelled Cerebral Oxygenation Near-Infrared Spectroscopy Signals. , 2012, , . | | 0 |