

Rebecca Re

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,071
citations

516710

16
h-index

526287

27
g-index

50
all docs

50
docs citations

50
times ranked

963
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Time domain functional NIRS imaging for human brain mapping. <i>NeuroImage</i> , 2014, 85, 28-50. | 4.2 | 372 |
| 2 | Performance assessment of time-domain optical brain imagers, part 2: nEUROPt protocol. <i>Journal of Biomedical Optics</i> , 2014, 19, 086012. | 2.6 | 85 |
| 3 | Multi-channel medical device for time domain functional near infrared spectroscopy based on wavelength space multiplexing. <i>Biomedical Optics Express</i> , 2013, 4, 2231. | 2.9 | 54 |
| 4 | Method for the discrimination of superficial and deep absorption variations by time domain fNIRS. <i>Biomedical Optics Express</i> , 2013, 4, 2893. | 2.9 | 52 |
| 5 | Mechanically switchable solid inhomogeneous phantom for performance tests in diffuse imaging and spectroscopy. <i>Journal of Biomedical Optics</i> , 2015, 20, 121304. | 2.6 | 45 |
| 6 | Probe-hosted silicon photomultipliers for time-domain functional near-infrared spectroscopy: phantom and <i>in vivo</i> tests. <i>Neurophotonics</i> , 2016, 3, 045004. | 3.3 | 45 |
| 7 | Brain and Muscle near Infrared Spectroscopy/Imaging Techniques. <i>Journal of Near Infrared Spectroscopy</i> , 2012, 20, 15-27. | 1.5 | 43 |
| 8 | Deep and surface hemodynamic signal from functional time resolved transcranial near infrared spectroscopy compared to skin flowmotion. <i>Computers in Biology and Medicine</i> , 2012, 42, 282-289. | 7.0 | 41 |
| 9 | A compact time-resolved system for near infrared spectroscopy based on wavelength space multiplexing. <i>Review of Scientific Instruments</i> , 2010, 81, 113101. | 1.3 | 35 |
| 10 | Effects of Increasing Neuromuscular Electrical Stimulation Current Intensity on Cortical Sensorimotor Network Activation: A Time Domain fNIRS Study. <i>PLoS ONE</i> , 2015, 10, e0131951. | 2.5 | 33 |
| 11 | Time Domain Near Infrared Spectroscopy Device for Monitoring Muscle Oxidative Metabolism: Custom Probe and In Vivo Applications. <i>Sensors</i> , 2018, 18, 264. | 3.8 | 33 |
| 12 | Cerebral time domain-NIRS: reproducibility analysis, optical properties, hemoglobin species and tissue oxygen saturation in a cohort of adult subjects. <i>Biomedical Optics Express</i> , 2017, 8, 4987. | 2.9 | 30 |
| 13 | NIRS-EMG for Clinical Applications: A Systematic Review. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2952. | 2.5 | 20 |
| 14 | Optical characterization of 3D printed PLA and ABS filaments for diffuse optics applications. <i>PLoS ONE</i> , 2021, 16, e0253181. | 2.5 | 20 |
| 15 | Effect of a thin superficial layer on the estimate of hemodynamic changes in a two-layer medium by time domain NIRS. <i>Biomedical Optics Express</i> , 2016, 7, 264. | 2.9 | 18 |
| 16 | Time-Gated Single-Photon Detection in Time-Domain Diffuse Optics: A Review. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1101. | 2.5 | 17 |
| 17 | Linear regression models and k-means clustering for statistical analysis of fNIRS data. <i>Biomedical Optics Express</i> , 2015, 6, 615. | 2.9 | 16 |
| 18 | Neurophotonics: non-invasive optical techniques for monitoring brain functions. <i>Functional Neurology</i> , 2014, 29, 223-30. | 1.3 | 13 |

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|----|---|-----|-----------|
| 19 | Time-domain near-infrared spectroscopy in acute ischemic stroke patients. <i>Neurophotonics</i> , 2019, 6, 1. | 3.3 | 12 |
| 20 | Effect of adipose tissue thickness and tissue optical properties on the differential pathlength factor estimation for NIRS studies on human skeletal muscle. <i>Biomedical Optics Express</i> , 2021, 12, 571. | 2.9 | 11 |
| 21 | From neurovascular coupling to neurovascular cascade: a study on neural, autonomic and vascular transients in attention. <i>Physiological Measurement</i> , 2012, 33, 1379-1397. | 2.1 | 10 |
| 22 | Pulse transit time measured by photoplethysmography improves the accuracy of heart rate as a surrogate measure of cardiac output, stroke volume and oxygen uptake in response to graded exercise. <i>Physiological Measurement</i> , 2015, 36, 911-924. | 2.1 | 10 |
| 23 | Instrument response function acquisition in reflectance geometry for time-resolved diffuse optical measurements. <i>Biomedical Optics Express</i> , 2020, 11, 240. | 2.9 | 10 |
| 24 | Multi-laboratory performance assessment of diffuse optics instruments: the BitMap exercise. <i>Journal of Biomedical Optics</i> , 2022, 27, . | 2.6 | 9 |
| 25 | A Versatile Setup for Time-Resolved Functional Near Infrared Spectroscopy Based on Fast-Gated Single-Photon Avalanche Diode and on Four-Wave Mixing Laser. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2366. | 2.5 | 8 |
| 26 | Integrated device for the measurement of systemic and local oxygen transport during physical exercise. , 2012, 2012, 3760-3. | | 7 |
| 27 | Cerebral Cortex Activation Mapping upon Electrical Muscle Stimulation by 32-Channel Time-Domain Functional Near-Infrared Spectroscopy. <i>Advances in Experimental Medicine and Biology</i> , 2013, 789, 441-447. | 1.6 | 7 |
| 28 | EEG monitoring during software development. , 2020, , . | | 5 |
| 29 | A compact time-resolved system for NIR spectroscopy. , 2009, , . | | 2 |
| 30 | High Power Time Domain fNIRS Device. , 2020, , . | | 2 |
| 31 | A method for discriminating systemic and cortical hemodynamic changes by time domain fNIRS. <i>Proceedings of SPIE</i> , 2013, , . | 0.8 | 1 |
| 32 | Time-Domain Near-Infrared Spectroscopy in Subjects with Asymptomatic Cerebral Small Vessel Disease. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2407. | 2.5 | 1 |
| 33 | Preliminary vastus lateralis characterization with time domain near infrared spectroscopy during incremental cycle exercise. , 2019, , . | | 1 |
| 34 | Instrument response function acquisition in reflectance geometry for time-resolved diffuse optical measurements. , 2019, , . | | 1 |
| 35 | Multi-laboratory efforts for the standardization of performance assessment of diffuse optics instruments " the BitMap Exercise. , 2020, , . | | 1 |
| 36 | Brain activations during programming tasks: TD-NIRS and EEG study. , 2021, , . | | 1 |

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|----|--|-----|-----------|
| 37 | Design and construction of a solid switchable phantom for diffuse optical imaging. , 2015, , . | | 0 |
| 38 | Solid switchable phantom for diffuse optical imaging. , 2015, , . | | 0 |
| 39 | Design and construction of a solid switchable phantom for diffuse optical imaging. , 2015, , . | | 0 |
| 40 | Validation of time domain near infrared spectroscopy in muscle measurements: effect of a superficial layer. , 2015, , . | | 0 |
| 41 | Photonics advancements in time-domain diffuse imaging: towards hand-held and wearable devices. , 2016, , . | | 0 |
| 42 | Validation of time domain near infrared spectroscopy in muscle measurements: effect of a superficial layer. , 2015, , . | | 0 |
| 43 | Measurement of haemodynamics of exercising and non-exercising vastus lateralis muscle with hybrid diffuse optics. , 2016, , . | | 0 |
| 44 | Time Domain Near Infrared Spectroscopy System for oxygen saturation assessment in stroke patients. , 2016, , . | | 0 |
| 45 | Time-resolved near infrared spectroscopy in ischemic stroke patients. , 2019, , . | | 0 |
| 46 | TD-fNIRS for diagnosing glaucoma: a clinical pilot study. , 2019, , . | | 0 |
| 47 | Time-Resolved NIRS: a Clinical Study on Ischemic Stroke Patients. , 2020, , . | | 0 |
| 48 | Instrument response function acquisition in reflectance geometry for time-resolved diffuse optical measurements. Biomedical Optics Express, 2020, 11, 240. | 2.9 | 0 |
| 49 | Adipose tissue thickness and optical properties affect differential pathlength factor in NIRS studies on human skeletal muscle. , 2021, , . | | 0 |
| 50 | Filament 3D printing technology for diffuse optics applications: advantages and drawbacks. , 2021, , . | | 0 |