

Lorenzo Spinelli

List of Publications by Year in descending order

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Version: 2024-02-01

235
papers

6,114
citations

70961

41
h-index

82410

72
g-index

236
all docs

236
docs citations

236
times ranked

3277
citing authors

#	ARTICLE	IF	CITATIONS
1	Reproducibility of identical solid phantoms. <i>Journal of Biomedical Optics</i> , 2022, 27, .	1.4	5
2	Effects and correctability of pile-up distortion using established figures of merit in time-domain diffuse optics at extreme photon rates. <i>Scientific Reports</i> , 2022, 12, 5417.	1.6	4
3	Multi-laboratory performance assessment of diffuse optics instruments: the BitMap exercise. <i>Journal of Biomedical Optics</i> , 2022, 27, .	1.4	9
4	Pushing Time-Domain Diffuse Optics to Its Ultimate Limits: New Large-Area Detector and Operation Modality. , 2022, , .		0
5	A Compact Multi-Distance DCS and Time Domain NIRS Hybrid System for Hemodynamic and Metabolic Measurements. <i>Sensors</i> , 2021, 21, 870.	2.1	8
6	Monitoring the motor cortex hemodynamic response function in freely moving walking subjects: a time-domain fNIRS pilot study. <i>Neurophotonics</i> , 2021, 8, 015006.	1.7	8
7	Accuracy of homogeneous models for photon diffusion in estimating neonatal cerebral hemodynamics by TD-NIRS. <i>Biomedical Optics Express</i> , 2021, 12, 1905.	1.5	3
8	Time-Domain Near-Infrared Spectroscopy in Subjects with Asymptomatic Cerebral Small Vessel Disease. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2407.	1.3	1
9	Optical characterization of 3D printed PLA and ABS filaments for diffuse optics applications. <i>PLoS ONE</i> , 2021, 16, e0253181.	1.1	20
10	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.	1.5	11
11	Compact Time-Domain NIRS oximeter for non-invasive brain and muscle monitoring. , 2021, , .		1
12	Sensitivity of TD-NIRS in estimating neonatal cerebral hemodynamics with homogenous models of analysis. , 2021, , .		0
13	Brain activations during programming tasks: TD-NIRS and EEG study. , 2021, , .		1
14	A hybrid DCS and TD-NIRS device for monitoring tissue oxygenation and perfusion, towards ICU applications. , 2021, , .		0
15	Motor cortex hemodynamic response function in freely moving subjects recorded via time domain fNIRS. , 2021, , .		0
16	Validation of diffuse correlation spectroscopy against 15O-water PET for regional cerebral blood flow measurement in neonatal piglets. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 2055-2065.	2.4	33
17	Reliability of fNIRS for noninvasive monitoring of brain function and emotion in sheep. <i>Scientific Reports</i> , 2020, 10, 14726.	1.6	6
18	Time- and spatially-resolved spectroscopy to determine the bulk optical properties of Braeburn™ apples after ripening in shelf life. <i>Postharvest Biology and Technology</i> , 2020, 168, 111233.	2.9	23

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19	Instrument response function acquisition in reflectance geometry for time-resolved diffuse optical measurements. <i>Biomedical Optics Express</i> , 2020, 11, 240.	1.5	10
20	Depth-selective data analysis for time-domain fNIRS: moments vs. time windows. <i>Biomedical Optics Express</i> , 2020, 11, 4224.	1.5	25
21	Wearable and wireless time-domain near-infrared spectroscopy system for brain and muscle hemodynamic monitoring. <i>Biomedical Optics Express</i> , 2020, 11, 5934.	1.5	31
22	Time-Resolved NIRS: a Clinical Study on Ischemic Stroke Patients. , 2020, , .		0
23	High Power Time Domain fNIRS Device. , 2020, , .		2
24	Multi-laboratory efforts for the standardization of performance assessment of diffuse optics instruments – the BitMap Exercise. , 2020, , .		1
25	Instrument response function acquisition in reflectance geometry for time-resolved diffuse optical measurements. <i>Biomedical Optics Express</i> , 2020, 11, 240.	1.5	0
26	Cerebral oxygenation and blood flow in normal term infants at rest measured by a hybrid near-infrared device (BabyLux). <i>Pediatric Research</i> , 2019, 86, 515-521.	1.1	18
27	NIRS-EMG for Clinical Applications: A Systematic Review. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2952.	1.3	20
28	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.	1.3	8
29	Cerebral oxygenation and blood flow in term infants during postnatal transition: BabyLux project. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2019, 104, F648-F653.	1.4	10
30	Evaluation of Sheep Anticipatory Response to a Food Reward by Means of Functional Near-Infrared Spectroscopy. <i>Animals</i> , 2019, 9, 11.	1.0	15
31	Time-domain near-infrared spectroscopy in acute ischemic stroke patients. <i>Neurophotonics</i> , 2019, 6, 1.	1.7	12
32	BabyLux device: a diffuse optical system integrating diffuse correlation spectroscopy and time-resolved near-infrared spectroscopy for the neuromonitoring of the premature newborn brain. <i>Neurophotonics</i> , 2019, 6, 1.	1.7	43
33	Effects of the instrument response function and the gate width in time-domain diffuse correlation spectroscopy: model and validations. <i>Neurophotonics</i> , 2019, 6, 1.	1.7	13
34	Preliminary vastus lateralis characterization with time domain near infrared spectroscopy during incremental cycle exercise. , 2019, , .		1
35	Accuracy and precision of tissue optical properties and hemodynamic parameters estimated by the BabyLux device: a hybrid time-resolved near-infrared and diffuse correlation spectroscopy neuro-monitor. <i>Biomedical Optics Express</i> , 2019, 10, 2556.	1.5	11
36	Time-resolved near infrared spectroscopy in ischemic stroke patients. , 2019, , .		0

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37	In vivo time-domain diffuse correlation spectroscopy of the human muscle above 1000 nm. , 2019, , .		0
38	Instrument response function acquisition in reflectance geometry for time-resolved diffuse optical measurements. , 2019, , .		1
39	TD-fNIRS for diagnosing glaucoma: a clinical pilot study. , 2019, , .		0
40	Blood-lipid liquid phantom for assessing time and frequency domain tissue oximeter performances. , 2019, , .		0
41	Time Domain Near Infrared Spectroscopy Device for Monitoring Muscle Oxidative Metabolism: Custom Probe and In Vivo Applications. Sensors, 2018, 18, 264.	2.1	33
42	Liquid phantoms for near-infrared and diffuse correlation spectroscopies with tunable optical and dynamic properties. Biomedical Optics Express, 2018, 9, 2068.	1.5	30
43	Noninvasive optical estimation of CSF thickness for brain-atrophy monitoring. Biomedical Optics Express, 2018, 9, 4094.	1.5	14
44	Multidistance time domain diffuse optical spectroscopy in the assessment of abdominal fat heterogeneity. , 2018, , .		0
45	Statistics of photon penetration depth in diffusive media. , 2017, , .		0
46	Depth sensitivity of frequency domain optical measurements in diffusive media. Biomedical Optics Express, 2017, 8, 2990.	1.5	12
47	Cerebral time domain-NIRS: reproducibility analysis, optical properties, hemoglobin species and tissue oxygen saturation in a cohort of adult subjects. Biomedical Optics Express, 2017, 8, 4987.	1.5	30
48	In vivo measure of neonate brain optical properties and hemodynamic parameters by time-domain near-infrared spectroscopy. Neurophotonics, 2017, 4, 1.	1.7	14
49	In vivo depth heterogeneity of the abdomen assessed by broadband time-domain diffuse optical spectroscopy. , 2017, , .		1
50	Thereâ€™s plenty of light at the bottom: statistics of photon penetration depth in random media. Scientific Reports, 2016, 6, 27057.	1.6	82
51	New frontiers in time-domain diffuse optics, a review. Journal of Biomedical Optics, 2016, 21, 091310.	1.4	181
52	Effect of a thin superficial layer on the estimate of hemodynamic changes in a two-layer medium by time domain NIRS. Biomedical Optics Express, 2016, 7, 264.	1.5	18
53	Statistics of the light penetration depth in a diffusive medium. , 2016, , .		0
54	Optical property reconstruction of a two-layer diffusive medium from single-distance time-resolved measurements. , 2016, , .		0

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55	Measurement of haemodynamics of exercising and non-exercising vastus lateralis muscle with hybrid diffuse optics. , 2016, , .		0
56	Time Domain Near Infrared Spectroscopy System for oxygen saturation assessment in stroke patients. , 2016, , .		0
57	New Compact and Flexible Picosecond Laser System for Multi-wavelength Time-Resolved Tissue Spectroscopy. , 2016, , .		1
58	Nondestructive assessment of apple optical properties during growth by time-resolved reflectance spectroscopy in the orchards. , 2015, , .		0
59	Near-infrared photons: a non-invasive probe for studying bone blood flow regulation in humans. Journal of Physiological Anthropology, 2015, 34, 28.	1.0	15
60	Design and construction of a solid switchable phantom for diffuse optical imaging. , 2015, , .		0
61	Effects of Increasing Neuromuscular Electrical Stimulation Current Intensity on Cortical Sensorimotor Network Activation: A Time Domain fNIRS Study. PLoS ONE, 2015, 10, e0131951.	1.1	33
62	Solid switchable phantom for diffuse optical imaging. , 2015, , .		0
63	Design and construction of a solid switchable phantom for diffuse optical imaging. , 2015, , .		0
64	Validation of time domain near infrared spectroscopy in muscle measurements: effect of a superficial layer. , 2015, , .		0
65	Mechanically switchable solid inhomogeneous phantom for performance tests in diffuse imaging and spectroscopy. Journal of Biomedical Optics, 2015, 20, 121304.	1.4	45
66	Fiber-based hybrid probe for non-invasive cerebral monitoring in neonatology. Proceedings of SPIE, 2015, , .	0.8	1
67	Optimal estimation reconstruction of the optical properties of a two-layered tissue phantom from time-resolved single-distance measurements. Journal of Biomedical Optics, 2015, 20, 115001.	1.4	21
68	Hemodynamic and EEG Time-Courses During Unilateral Hand Movement in Patients with Cortical Myoclonus. An EEG-fMRI and EEG-TD-fNIRS Study. Brain Topography, 2015, 28, 915-925.	0.8	30
69	Effects of time-gated detection in diffuse optical imaging at short source-detector separation. Journal Physics D: Applied Physics, 2015, 48, 045401.	1.3	35
70	Linear regression models and k-means clustering for statistical analysis of fNIRS data. Biomedical Optics Express, 2015, 6, 615.	1.5	16
71	In-vivo multilaboratory investigation of the optical properties of the human head. Biomedical Optics Express, 2015, 6, 2609.	1.5	48
72	Optical properties, ethylene production and softening in mango fruit. Postharvest Biology and Technology, 2015, 101, 58-65.	2.9	46

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73	Optical properties of developing pip and stone fruit reveal underlying structural changes. <i>Physiologia Plantarum</i> , 2015, 153, 327-336.	2.6	39
74	Breast Monitoring by Time-Resolved Diffuse Optical Imaging. <i>Springer Series in Chemical Physics</i> , 2015, , 587-611.	0.2	1
75	Validation of time domain near infrared spectroscopy in muscle measurements: effect of a superficial layer. , 2015, , .		0
76	Phantoms for diffuse optical imaging based on totally absorbing objects, part 2: experimental implementation. <i>Journal of Biomedical Optics</i> , 2014, 19, 076011.	1.4	40
77	Performance assessment of time-domain optical brain imagers, part 2: nEUROPt protocol. <i>Journal of Biomedical Optics</i> , 2014, 19, 086012.	1.4	85
78	Performance assessment of time-domain optical brain imagers, part 1: basic instrumental performance protocol. <i>Journal of Biomedical Optics</i> , 2014, 19, 086010.	1.4	101
79	Determination of reference values for optical properties of liquid phantoms based on Intralipid and India ink. <i>Biomedical Optics Express</i> , 2014, 5, 2037.	1.5	133
80	Bone tissue phantoms for optical flowmeters at large interoptode spacing generated by 3D-stereolithography. <i>Biomedical Optics Express</i> , 2014, 5, 2715.	1.5	5
81	Estimate of tissue composition in malignant and benign breast lesions by time-domain optical mammography. <i>Biomedical Optics Express</i> , 2014, 5, 3684.	1.5	50
82	Optical propertiesâ€“microstructureâ€“texture relationships of dried apple slices: Spatially resolved diffuse reflectance spectroscopy as a novel technique for analysis and process control. <i>Innovative Food Science and Emerging Technologies</i> , 2014, 21, 160-168.	2.7	24
83	Reprint of "Optical propertiesâ€“microstructureâ€“texture relationships of dried apple slices: Spatially resolved diffuse reflectance spectroscopy as a novel technique for analysis and process control". <i>Innovative Food Science and Emerging Technologies</i> , 2014, 24, 145-153.	2.7	7
84	Optical mammography: Characterization of malignant and benign breast lesions by a perturbative model. , 2014, , .		0
85	Studies on classification models to discriminate â€“Braeburnâ€™ apples affected by internal browning using the optical properties measured by time-resolved reflectance spectroscopy. <i>Postharvest Biology and Technology</i> , 2014, 91, 112-121.	2.9	34
86	Forward solvers for photon migration in the presence of highly and totally absorbing objects embedded inside diffusive media. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 460.	0.8	12
87	Characterizing the tissue of apple air-dried and osmo-air-dried rings by X-CT and OCT and relationship with ring crispness and fruit maturity at harvest measured by TRS. <i>Innovative Food Science and Emerging Technologies</i> , 2014, 24, 121-130.	2.7	35
88	Time domain functional NIRS imaging for human brain mapping. <i>NeuroImage</i> , 2014, 85, 28-50.	2.1	372
89	Relationship Between Texture Sensory Profiles and Optical Properties Measured by Time-Resolved Reflectance Spectroscopy During Post-Storage Shelf Life of â€“Braeburnâ€™ Apples. <i>Journal of Horticultural Research</i> , 2014, 22, 113-121.	0.4	20
90	Optical Characterization of Benign and Malignant Breast Lesions by Perturbative Model. , 2014, , .		0

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91	Neurophotonic: non-invasive optical techniques for monitoring brain functions. <i>Functional Neurology</i> , 2014, 29, 223-30.	1.3	13
92	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.	0.8	7
93	Microstructure–texture relationships of aerated sugar gels: Novel measurement techniques for analysis and control. <i>Innovative Food Science and Emerging Technologies</i> , 2013, 18, 202-211.	2.7	50
94	Electronic Nose To Detect Volatile Compound Profile and Quality Changes in “Spring Belle”™ Peach (<i>Prunus persica</i> L.) during Cold Storage in Relation to Fruit Optical Properties Measured by Time-Resolved Reflectance Spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 1671-1685.	2.4	52
95	Multi-channel medical device for time domain functional near infrared spectroscopy based on wavelength space multiplexing. <i>Biomedical Optics Express</i> , 2013, 4, 2231.	1.5	54
96	Method for the discrimination of superficial and deep absorption variations by time domain fNIRS. <i>Biomedical Optics Express</i> , 2013, 4, 2893.	1.5	52
97	Phantoms for diffuse optical imaging based on totally absorbing objects, part 1: basic concepts. <i>Journal of Biomedical Optics</i> , 2013, 18, 066014.	1.4	41
98	Optical coherence tomography (OCT), space-resolved reflectance spectroscopy (SRS) and time-resolved reflectance spectroscopy (TRS): principles and applications to food microstructures. , 2013, , 132-162.		4
99	Optical identification of subjects at high risk for developing breast cancer. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
100	Realistic phantoms for diffuse optical imaging using totally absorbing objects. , 2013, , .		0
101	Multi-laboratory investigation of the optical properties of the human head. , 2013, , .		0
102	Investigation of verbal and visual working memory by multi-channel time-resolved functional near-infrared spectroscopy. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
103	Functional near-infrared spectroscopy at small source-detector distance by means of high dynamic-range fast-gated SPAD acquisitions: first-in-vivo measurements. , 2013, , .		7
104	A method for discriminating systemic and cortical hemodynamic changes by time domain fNIRS. <i>Proceedings of SPIE</i> , 2013, , .	0.8	1
105	Multichannel time domain fNIRS mapping of cortical activation and superficial systemic responses during neuromuscular electrical stimulation. <i>Proceedings of SPIE</i> , 2013, , .	0.8	3
106	Realistic inhomogeneous phantoms using an equivalent black volume. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
107	Performance assessment of time-domain optical brain imagers: a multi-laboratory study. , 2013, , .		7
108	Multi-channel time-resolved functional near infrared spectroscopy system. , 2013, , .		3

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109	From neurovascular coupling to neurovascular cascade: a study on neural, autonomic and vascular transients in attention. <i>Physiological Measurement</i> , 2012, 33, 1379-1397.	1.2	10
110	Multimodality fNIRS-EEG, fMRI-EEG and TMS Clinical Study on Cortical Response During Motor Task in Adult Volunteers and Epileptic Patients with Movement Disorders. , 2012, , .		1
111	Load-dependent brain activation assessed by time-domain functional near-infrared spectroscopy during a working memory task with graded levels of difficulty. <i>Journal of Biomedical Optics</i> , 2012, 17, 056005.	1.4	42
112	Effects of tissue heterogeneity on the optical estimate of breast density. <i>Biomedical Optics Express</i> , 2012, 3, 2411.	1.5	10
113	Single-fiber diffuse optical time-of-flight spectroscopy. <i>Optics Letters</i> , 2012, 37, 2877.	1.7	36
114	Non-contact time-resolved diffuse reflectance imaging at null source-detector separation. <i>Optics Express</i> , 2012, 20, 283.	1.7	46
115	Brain and Muscle near Infrared Spectroscopy/Imaging Techniques. <i>Journal of Near Infrared Spectroscopy</i> , 2012, 20, 15-27.	0.8	43
116	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.	3.9	41
117	Cortical Response During Motor Task in Epileptic Patients with Movement Disorders: A Multimodality fNIRS-EEG, fMRI-EEG and TMS Clinical Study. , 2012, , .		0
118	Optical Assessment of Breast Density and its Dependence on Tissue Heterogeneity. , 2012, , .		2
119	Quality characteristics of air-dried apple rings: Influence of storage time and fruit maturity measured by time-resolved reflectance spectroscopy. <i>Procedia Food Science</i> , 2011, 1, 216-223.	0.6	14
120	Time-resolved reflectance spectroscopy nondestructively reveals structural changes in "Pink Lady"™ apples during storage. <i>Procedia Food Science</i> , 2011, 1, 81-89.	0.6	35
121	Non destructive detection of brown heart in "Braeburn"™ apples by time-resolved reflectance spectroscopy. <i>Procedia Food Science</i> , 2011, 1, 413-420.	0.6	10
122	Photonics for Life. <i>IEEE Pulse</i> , 2011, 2, 16-23.	0.1	3
123	Functional tomography using a time-gated ICCD camera. <i>Biomedical Optics Express</i> , 2011, 2, 705.	1.5	34
124	Fast-gated single-photon counting technique widens dynamic range and speeds up acquisition time in time-resolved measurements. <i>Optics Express</i> , 2011, 19, 10735.	1.7	89
125	Anatomical brain atlas for NIRS measurements of brain activation. , 2011, , .		1
126	Non-contact time-domain scanning brain imager: results of proof of principle tests. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1

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127	Breast density assessment by means of time domain optical mammography at 635-1060 nm. Proceedings of SPIE, 2011, , .	0.8	2
128	Chilling injury in stored nectarines and its detection by time-resolved reflectance spectroscopy. Postharvest Biology and Technology, 2011, 59, 211-218.	2.9	37
129	Maturity assessment at harvest and prediction of softening in a late maturing nectarine cultivar after cold storage. Postharvest Biology and Technology, 2011, 62, 275-281.	2.9	17
130	Non-destructive analysis of anthocyanins in cherries by means of Lambert-Beer and multivariate regression based on spectroscopy and scatter correction using time-resolved analysis. Journal of Food Engineering, 2011, 103, 68-75.	2.7	47
131	Assessment of basic instrumental performance of time-domain optical brain imagers. Proceedings of SPIE, 2011, , .	0.8	6
132	In vivo swine myocardial tissue characterization and monitoring during open chest surgery by time-resolved diffuse near-infrared spectroscopy. , 2011, , .		2
133	Assessment of cortical response during motor task in adults by a multimodality approach based on fNIRS-EEG, fMRI-EEG, and TMS. , 2011, , .		2
134	Wavelength and code-division multiplexing in diffuse optical imaging. Proceedings of SPIE, 2011, , .	0.8	1
135	Study of neurovascular and autonomic response in a divided attention test by means of EEG, ECG and NIRS signals. , 2011, 2011, 1403-6.		7
136	Time domain diffuse optical imaging and spectroscopy of breast. , 2011, , .		0
137	Fast-gated single-photon detectors boost dynamic range in NIR spectroscopy. Proceedings of SPIE, 2010, , .	0.8	0
138	Functional diffuse reflectance spectroscopy at small source-detector distances based on fast-gated single-photon avalanche diodes. , 2010, , .		1
139	Monitoring Absorption Changes in a Layered Diffusive Medium by White-Light Time-Resolved Reflectance Spectroscopy. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1925-1932.	2.4	14
140	Fast-Gated Single-Photon Avalanche Diode for Wide Dynamic Range Near Infrared Spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1023-1030.	1.9	81
141	Sensory characteristics, quality and optical properties measured by time-resolved reflectance spectroscopy in stored apples. Postharvest Biology and Technology, 2010, 58, 1-12.	2.9	56
142	A compact time-resolved system for near infrared spectroscopy based on wavelength space multiplexing. Review of Scientific Instruments, 2010, 81, 113101.	0.6	35
143	Noninvasive assessment of breast cancer risk using time-resolved diffuse optical spectroscopy. Journal of Biomedical Optics, 2010, 15, 060501.	1.4	76
144	Noninvasive observation of skeletal muscle contraction using near-infrared time-resolved reflectance and diffusing-wave spectroscopy. Journal of Biomedical Optics, 2010, 15, 057007.	1.4	24

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145	Time-Resolved Diffuse Optical Spectroscopy: A Differential Absorption Approach. Applied Spectroscopy, 2010, 64, 1220-1226.	1.2	3
146	Ultra-Fast Time-Gated SPAD for Multi-Wavelength Wide Dynamic Range Spectroscopy. , 2010, , .		0
147	The Spread Matrix: a method to predict the effect of a non time-invariant measurement system. , 2010, , .		0
148	Time-resolved broadband diffuse spectroscopy using a differential absorption approach. , 2010, , .		0
149	Towards the Definition of Accurately Calibrated Liquid Phantoms for Photon Migration at NIR Wavelengths: a Multi-Laboratory Study. , 2010, , .		0
150	In-vivo characterization of myocardial tissue by time-resolved diffuse optical spectroscopy in open chest pig. , 2010, , .		0
151	Optical mammography at 635â€“1060 nm for breast density assessment and lesion characterization. , 2010, , .		1
152	A multichannel medical device for brain imaging by time-domain fNIRS. , 2010, , .		0
153	Nonlinear fitting procedure for accurate time-resolved measurements in diffusive media. , 2009, , .		1
154	Functional brain tomography using a time-gated ICCD camera. Proceedings of SPIE, 2009, , .	0.8	0
155	Frontal brain activation during a working memory task: a time-domain fNIRS study. , 2009, , .		6
156	Monitoring muscle metabolic indexes by time-domain near-infrared spectroscopy during knee flex-extension induced by functional electrical stimulation. Journal of Biomedical Optics, 2009, 14, 044011.	1.4	16
157	Prediction ability of firmness decay models of nectarines based on the biological shift factor measured by time-resolved reflectance spectroscopy. Postharvest Biology and Technology, 2009, 54, 131-140.	2.9	26
158	Polyuronide content and correlation to optical properties measured by time-resolved reflectance spectroscopy in â€œJonagoredâ€™ apples stored in normal and controlled atmosphere. Food Chemistry, 2009, 115, 1450-1457.	4.2	37
159	Time-resolved Reflectance Spectroscopy as a management tool in the fruit supply chain: an export trial with nectarines. Biosystems Engineering, 2009, 102, 360-363.	1.9	21
160	Seven-wavelength time-resolved optical mammography extending beyond 1000 nm for breast collagen quantification. Optics Express, 2009, 17, 15932.	1.7	91
161	Bandpass Effects in Time-Resolved Diffuse Spectroscopy. Applied Spectroscopy, 2009, 63, 48-56.	1.2	23
162	Brain functional imaging at small source-detector distances based on fast-gated single-photon avalanche diodes. Proceedings of SPIE, 2009, , .	0.8	1

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163	Fast-gated single-photon avalanche diode for extremely wide dynamic-range applications. Proceedings of SPIE, 2009, , .	0.8	11
164	Measurement of the local muscular metabolism by time-domain near infrared spectroscopy during knee flex-extension induced by functional electrical stimulation. , 2009, , .		0
165	A compact time-resolved system for NIR spectroscopy. , 2009, , .		2
166	Effect of prolonged stimulation on cerebral hemodynamic: A time-resolved fNIRS study. Medical Physics, 2009, 36, 4103-4114.	1.6	20
167	A multichannel time-domain brain oximeter for clinical studies. Proceedings of SPIE, 2009, , .	0.8	9
168	Accuracy of the nonlinear fitting procedure for time-resolved measurements on diffusive phantoms at NIR wavelengths. , 2009, , .		5
169	Hybrid heuristic time dependent solution of the radiative transfer equation for the slab. , 2009, , .		2
170	Time-resolved optical stratigraphy in turbid media. Proceedings of SPIE, 2009, , .	0.8	3
171	In-situ analysis of fruit anthocyanins by means of total internal reflectance, continuous wave and time-resolved spectroscopy. , 2009, , .		0
172	Time-resolved diffuse optical spectroscopy: a differential absorption approach. , 2009, , .		0
173	Intra- and extra-cortical activation during a working memory task assessed by time-resolved near-infrared spectroscopy (fNIRS). Proceedings of SPIE, 2009, , .	0.8	0
174	Tomography of brain activation using a time-gated camera. Proceedings of SPIE, 2009, , .	0.8	0
175	Effects of a finite spectral bandwidth light source in time-resolved diffuse spectroscopy. Proceedings of SPIE, 2009, , .	0.8	0
176	Approach for non-destructive pigment analysis in model liquids and carrots by means of time-of-flight and multi-wavelength remittance readings. Analytica Chimica Acta, 2008, 623, 204-212.	2.6	14
177	Time-resolved reflectance spectroscopy for non-destructive assessment of food quality. Sensing and Instrumentation for Food Quality and Safety, 2008, 2, 82-89.	1.5	52
178	Functional brain imaging by multi-wavelength time-resolved near infrared spectroscopy. Opto-electronics Review, 2008, 16, .	2.4	12
179	Depth dependence of estimated optical properties of a scattering inclusion by time-resolved contrast functions. Optics Express, 2008, 16, 17667.	1.7	3
180	Time-Resolved Diffuse Reflectance Using Small Source-Detector Separation and Fast Single-Photon Gating. Physical Review Letters, 2008, 100, 138101.	2.9	119

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181	Time-resolved scanning system for double reflectance and transmittance fluorescence imaging of diffusive media. Review of Scientific Instruments, 2008, 79, 013103.	0.6	15
182	Time-resolved optical mammography from 635 to 1060 nm for collagen quantification. , 2008, , .		0
183	Time domain diffuse optical imaging and spectroscopy: from lab to clinic. , 2008, , .		0
184	Time-Resolved Functional Near-Infrared Spectroscopy at Null Source-Detector Separation. , 2008, , .		1
185	CW and Time Domain Methods to Prepare Accurately Calibrated Liquid Diffusive Phantoms at NIR Wavelengths. , 2008, , .		0
186	Heuristic Analytical Solution of the Time Dependent Radiative Transfer Equation for a Semi-infinite Medium. , 2008, , .		0
187	Self-Adaptive Method to Uncouple Cortex-Related Brain Activation from Superficial Effects. , 2008, , .		0
188	Novel method for depth-resolved brain functional imaging by time-domain NIRS. Proceedings of SPIE, 2007, 6629, 59.	0.8	34
189	Simultaneous acquisition of time-domain fNIRS and fMRI during motor activity. , 2007, , .		3
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