

Lorenzo Spinelli

List of Publications by Year in descending order

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235
papers

6,114
citations

71102

41
h-index

82547

72
g-index

236
all docs

236
docs citations

236
times ranked

3277
citing authors

#	ARTICLE	IF	CITATIONS
1	Cavity solitons as pixels in semiconductor microcavities. <i>Nature</i> , 2002, 419, 699-702.	27.8	565
2	Time domain functional NIRS imaging for human brain mapping. <i>NeuroImage</i> , 2014, 85, 28-50.	4.2	372
3	Spatial Soliton Pixels in Semiconductor Devices. <i>Physical Review Letters</i> , 1997, 79, 2042-2045.	7.8	230
4	Spatial solitons in semiconductor microcavities. <i>Physical Review A</i> , 1998, 58, 2542-2559.	2.5	203
5	New frontiers in time-domain diffuse optics, a review. <i>Journal of Biomedical Optics</i> , 2016, 21, 091310.	2.6	181
6	Bulk optical properties and tissue components in the female breast from multiwavelength time-resolved optical mammography. <i>Journal of Biomedical Optics</i> , 2004, 9, 1137.	2.6	133
7	Determination of reference values for optical properties of liquid phantoms based on Intralipid and India ink. <i>Biomedical Optics Express</i> , 2014, 5, 2037.	2.9	133
8	Time-Resolved Reflectance at Null Source-Detector Separation: Improving Contrast and Resolution in Diffuse Optical Imaging. <i>Physical Review Letters</i> , 2005, 95, 078101.	7.8	122
9	Time-Resolved Diffuse Reflectance Using Small Source-Detector Separation and Fast Single-Photon Gating. <i>Physical Review Letters</i> , 2008, 100, 138101.	7.8	119
10	Clinical trial of time-resolved scanning optical mammography at 4 wavelengths between 683 and 975 nm. <i>Journal of Biomedical Optics</i> , 2004, 9, 464.	2.6	115
11	Time-resolved optical mammography between 637 and 985 nm: clinical study on the detection and identification of breast lesions. <i>Physics in Medicine and Biology</i> , 2005, 50, 2469-2488.	3.0	113
12	Multi-channel time-resolved system for functional near infrared spectroscopy. <i>Optics Express</i> , 2006, 14, 5418.	3.4	110
13	Performance assessment of time-domain optical brain imagers, part 1: basic instrumental performance protocol. <i>Journal of Biomedical Optics</i> , 2014, 19, 086010.	2.6	101
14	Seven-wavelength time-resolved optical mammography extending beyond 1000 nm for breast collagen quantification. <i>Optics Express</i> , 2009, 17, 15932.	3.4	91
15	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.	3.4	89
16	Characterization of female breast lesions from multi-wavelength time-resolved optical mammography. <i>Physics in Medicine and Biology</i> , 2005, 50, 2489-2502.	3.0	88
17	Performance assessment of time-domain optical brain imagers, part 2: nEUROPt protocol. <i>Journal of Biomedical Optics</i> , 2014, 19, 086012.	2.6	85
18	There's plenty of light at the bottom: statistics of photon penetration depth in random media. <i>Scientific Reports</i> , 2016, 6, 27057.	3.3	82

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19	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.	2.9	81
20	Use of a nonlinear perturbation approach for in vivo breast lesion characterization by multiwavelength time-resolved optical mammography. Optics Express, 2003, 11, 853.	3.4	79
21	Assessing harvest maturity in nectarines. Postharvest Biology and Technology, 2007, 45, 204-213.	6.0	77
22	Noninvasive assessment of breast cancer risk using time-resolved diffuse optical spectroscopy. Journal of Biomedical Optics, 2010, 15, 060501.	2.6	76
23	Bilateral prefrontal cortex oxygenation responses to a verbal fluency task: a multichannel time-resolved near-infrared topography study. Journal of Biomedical Optics, 2005, 10, 011012.	2.6	70
24	A model for the softening of nectarines based on sorting fruit at harvest by time-resolved reflectance spectroscopy. Postharvest Biology and Technology, 2006, 39, 223-232.	6.0	69
25	Time-resolved spectrally constrained method for the quantification of chromophore concentrations and scattering parameters in diffusing media. Optics Express, 2006, 14, 1888.	3.4	68
26	Calibration of scattering and absorption properties of a liquid diffusive medium at NIR wavelengths. Time-resolved method. Optics Express, 2007, 15, 6589.	3.4	64
27	Mapping of calf muscle oxygenation and haemoglobin content during dynamic plantar flexion exercise by multi-channel time-resolved near-infrared spectroscopy. Physics in Medicine and Biology, 2004, 49, 685-699.	3.0	63
28	Sensory characteristics, quality and optical properties measured by time-resolved reflectance spectroscopy in stored apples. Postharvest Biology and Technology, 2010, 58, 1-12.	6.0	56
29	Multi-channel medical device for time domain functional near infrared spectroscopy based on wavelength space multiplexing. Biomedical Optics Express, 2013, 4, 2231.	2.9	54
30	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
31	Electronic Nose To Detect Volatile Compound Profile and Quality Changes in "Spring Belle"™ Peach (Prunus persica L.) during Cold Storage in Relation to Fruit Optical Properties Measured by Time-Resolved Reflectance Spectroscopy. Journal of Agricultural and Food Chemistry, 2013, 61, 1671-1685.	5.2	52
32	Method for the discrimination of superficial and deep absorption variations by time domain fNIRS. Biomedical Optics Express, 2013, 4, 2893.	2.9	52
33	Microstructure-texture relationships of aerated sugar gels: Novel measurement techniques for analysis and control. Innovative Food Science and Emerging Technologies, 2013, 18, 202-211.	5.6	50
34	Estimate of tissue composition in malignant and benign breast lesions by time-domain optical mammography. Biomedical Optics Express, 2014, 5, 3684.	2.9	50
35	In-vivo multilaboratory investigation of the optical properties of the human head. Biomedical Optics Express, 2015, 6, 2609.	2.9	48
36	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.	5.2	47

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37	Non-contact time-resolved diffuse reflectance imaging at null source-detector separation. Optics Express, 2012, 20, 283.	3.4	46
38	Optical properties, ethylene production and softening in mango fruit. Postharvest Biology and Technology, 2015, 101, 58-65.	6.0	46
39	Mechanically switchable solid inhomogeneous phantom for performance tests in diffuse imaging and spectroscopy. Journal of Biomedical Optics, 2015, 20, 121304.	2.6	45
40	Brain and Muscle near Infrared Spectroscopy/Imaging Techniques. Journal of Near Infrared Spectroscopy, 2012, 20, 15-27.	1.5	43
41	BabyLux device: a diffuse optical system integrating diffuse correlation spectroscopy and time-resolved near-infrared spectroscopy for the neuromonitoring of the premature newborn brain. Neurophotonics, 2019, 6, 1.	3.3	43
42	Load-dependent brain activation assessed by time-domain functional near-infrared spectroscopy during a working memory task with graded levels of difficulty. Journal of Biomedical Optics, 2012, 17, 056005.	2.6	42
43	Thermal effects and transverse structures in semiconductor microcavities with population inversion. Physical Review A, 2002, 66, .	2.5	41
44	Deep and surface hemodynamic signal from functional time resolved transcranial near infrared spectroscopy compared to skin flowmotion. Computers in Biology and Medicine, 2012, 42, 282-289.	7.0	41
45	Phantoms for diffuse optical imaging based on totally absorbing objects, part 1: basic concepts. Journal of Biomedical Optics, 2013, 18, 066014.	2.6	41
46	Phantoms for diffuse optical imaging based on totally absorbing objects, part 2: experimental implementation. Journal of Biomedical Optics, 2014, 19, 076011.	2.6	40
47	Optical properties of developing pip and stone fruit reveal underlying structural changes. Physiologia Plantarum, 2015, 153, 327-336.	5.2	39
48	Polyuronide content and correlation to optical properties measured by time-resolved reflectance spectroscopy in "Jonagored" apples stored in normal and controlled atmosphere. Food Chemistry, 2009, 115, 1450-1457.	8.2	37
49	Chilling injury in stored nectarines and its detection by time-resolved reflectance spectroscopy. Postharvest Biology and Technology, 2011, 59, 211-218.	6.0	37
50	Single-fiber diffuse optical time-of-flight spectroscopy. Optics Letters, 2012, 37, 2877.	3.3	36
51	A compact time-resolved system for near infrared spectroscopy based on wavelength space multiplexing. Review of Scientific Instruments, 2010, 81, 113101.	1.3	35
52	Time-resolved reflectance spectroscopy nondestructively reveals structural changes in "Pink Lady" apples during storage. Procedia Food Science, 2011, 1, 81-89.	0.6	35
53	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. Innovative Food Science and Emerging Technologies, 2014, 24, 121-130.	5.6	35
54	Effects of time-gated detection in diffuse optical imaging at short source-detector separation. Journal Physics D: Applied Physics, 2015, 48, 045401.	2.8	35

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55	Novel method for depth-resolved brain functional imaging by time-domain NIRS. Proceedings of SPIE, 2007, 6629, 59.	0.8	34
56	Functional tomography using a time-gated ICCD camera. Biomedical Optics Express, 2011, 2, 705.	2.9	34
57	Studies on classification models to discriminate “Braeburn” apples affected by internal browning using the optical properties measured by time-resolved reflectance spectroscopy. Postharvest Biology and Technology, 2014, 91, 112-121.	6.0	34
58	Modelling the balance between quiescence and cell death in normal and tumour cell populations. Mathematical Biosciences, 2006, 202, 349-370.	1.9	33
59	Effects of Increasing Neuromuscular Electrical Stimulation Current Intensity on Cortical Sensorimotor Network Activation: A Time Domain fNIRS Study. PLoS ONE, 2015, 10, e0131951.	2.5	33
60	Time Domain Near Infrared Spectroscopy Device for Monitoring Muscle Oxidative Metabolism: Custom Probe and In Vivo Applications. Sensors, 2018, 18, 264.	3.8	33
61	Validation of diffuse correlation spectroscopy against 15O-water PET for regional cerebral blood flow measurement in neonatal piglets. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 2055-2065.	4.3	33
62	Wearable and wireless time-domain near-infrared spectroscopy system for brain and muscle hemodynamic monitoring. Biomedical Optics Express, 2020, 11, 5934.	2.9	31
63	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.	1.8	30
64	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.	2.9	30
65	Liquid phantoms for near-infrared and diffuse correlation spectroscopies with tunable optical and dynamic properties. Biomedical Optics Express, 2018, 9, 2068.	2.9	30
66	Do shorter wavelengths improve contrast in optical mammography?. Physics in Medicine and Biology, 2004, 49, 1203-1215.	3.0	27
67	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.	6.0	26
68	Depth-selective data analysis for time-domain fNIRS: moments vs. time windows. Biomedical Optics Express, 2020, 11, 4224.	2.9	25
69	First principle theory for cavity solitons in semiconductor microresonators. European Physical Journal D, 2001, 15, 257-266.	1.3	24
70	Noninvasive observation of skeletal muscle contraction using near-infrared time-resolved reflectance and diffusing-wave spectroscopy. Journal of Biomedical Optics, 2010, 15, 057007.	2.6	24
71	Optical properties “microstructure” texture relationships of dried apple slices: Spatially resolved diffuse reflectance spectroscopy as a novel technique for analysis and process control. Innovative Food Science and Emerging Technologies, 2014, 21, 160-168.	5.6	24
72	Experimental test of a perturbation model for time-resolved imaging in diffusive media. Applied Optics, 2003, 42, 3145.	2.1	23

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73	Bandpass Effects in Time-Resolved Diffuse Spectroscopy. <i>Applied Spectroscopy</i> , 2009, 63, 48-56.	2.2	23
74	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.	6.0	23
75	Heuristic Green's function of the time dependent radiative transfer equation for a semi-infinite medium. <i>Optics Express</i> , 2007, 15, 18168.	3.4	22
76	Localization and quantification of fluorescent inclusions embedded in a turbid medium. <i>Physics in Medicine and Biology</i> , 2005, 50, 2313-2327.	3.0	21
77	Time-resolved Reflectance Spectroscopy as a management tool in the fruit supply chain: an export trial with nectarines. <i>Biosystems Engineering</i> , 2009, 102, 360-363.	4.3	21
78	Optimal estimation reconstruction of the optical properties of a two-layered tissue phantom from time-resolved single-distance measurements. <i>Journal of Biomedical Optics</i> , 2015, 20, 115001.	2.6	21
79	Effect of prolonged stimulation on cerebral hemodynamic: A time-resolved fNIRS study. <i>Medical Physics</i> , 2009, 36, 4103-4114.	3.0	20
80	Relationship Between Texture Sensory Profiles and Optical Properties Measured by Time-Resolved Reflectance Spectroscopy During Post-Storage Shelf Life of Braeburn™ Apples. <i>Journal of Horticultural Research</i> , 2014, 22, 113-121.	0.9	20
81	NIRS-EMG for Clinical Applications: A Systematic Review. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2952.	2.5	20
82	Optical characterization of 3D printed PLA and ABS filaments for diffuse optics applications. <i>PLoS ONE</i> , 2021, 16, e0253181.	2.5	20
83	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
84	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.	2.3	18
85	Maturity assessment at harvest and prediction of softening in a late maturing nectarine cultivar after cold storage. <i>Postharvest Biology and Technology</i> , 2011, 62, 275-281.	6.0	17
86	Absorption and scattering perturbations in homogeneous and layered diffusive media probed by time-resolved reflectance at null source-detector separation. <i>Physical Review E</i> , 2006, 74, 021919.	2.1	16
87	Monitoring muscle metabolic indexes by time-domain near-infrared spectroscopy during knee flex-extension induced by functional electrical stimulation. <i>Journal of Biomedical Optics</i> , 2009, 14, 044011.	2.6	16
88	Linear regression models and k-means clustering for statistical analysis of fNIRS data. <i>Biomedical Optics Express</i> , 2015, 6, 615.	2.9	16
89	Time-resolved scanning system for double reflectance and transmittance fluorescence imaging of diffusive media. <i>Review of Scientific Instruments</i> , 2008, 79, 013103.	1.3	15
90	Near-infrared photons: a non-invasive probe for studying bone blood flow regulation in humans. <i>Journal of Physiological Anthropology</i> , 2015, 34, 28.	2.6	15

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91	Evaluation of Sheep Anticipatory Response to a Food Reward by Means of Functional Near-Infrared Spectroscopy. <i>Animals</i> , 2019, 9, 11.	2.3	15
92	Spatio-temporal dynamics in semiconductor microresonators with thermal effects. <i>Optics Express</i> , 2002, 10, 1009.	3.4	14
93	Multichannel Time-Resolved Tissue Oximeter for Functional Imaging of the Brain. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2006, 55, 85-90.	4.7	14
94	Approach for non-destructive pigment analysis in model liquids and carrots by means of time-of-flight and multi-wavelength remittance readings. <i>Analytica Chimica Acta</i> , 2008, 623, 204-212.	5.4	14
95	Monitoring Absorption Changes in a Layered Diffusive Medium by White-Light Time-Resolved Reflectance Spectroscopy. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010, 59, 1925-1932.	4.7	14
96	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
97	In vivo measure of neonate brain optical properties and hemodynamic parameters by time-domain near-infrared spectroscopy. <i>Neurophotonics</i> , 2017, 4, 1.	3.3	14
98	Noninvasive optical estimation of CSF thickness for brain-atrophy monitoring. <i>Biomedical Optics Express</i> , 2018, 9, 4094.	2.9	14
99	Feasibility of white-light time-resolved optical mammography. <i>Journal of Biomedical Optics</i> , 2006, 11, 054035.	2.6	13
100	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.	3.3	13
101	Neurophotonics: non-invasive optical techniques for monitoring brain functions. <i>Functional Neurology</i> , 2014, 29, 223-30.	1.3	13
102	Functional brain imaging by multi-wavelength time-resolved near infrared spectroscopy. <i>Opto-electronics Review</i> , 2008, 16, .	2.4	12
103	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.	1.5	12
104	Depth sensitivity of frequency domain optical measurements in diffusive media. <i>Biomedical Optics Express</i> , 2017, 8, 2990.	2.9	12
105	Time-domain near-infrared spectroscopy in acute ischemic stroke patients. <i>Neurophotonics</i> , 2019, 6, 1.	3.3	12
106	Fast-gated single-photon avalanche diode for extremely wide dynamic-range applications. <i>Proceedings of SPIE</i> , 2009, , .	0.8	11
107	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.	2.9	11
108	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

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109	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
110	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
111	Effects of tissue heterogeneity on the optical estimate of breast density. <i>Biomedical Optics Express</i> , 2012, 3, 2411.	2.9	10
112	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.	2.8	10
113	Instrument response function acquisition in reflectance geometry for time-resolved diffuse optical measurements. <i>Biomedical Optics Express</i> , 2020, 11, 240.	2.9	10
114	A multichannel time-domain brain oximeter for clinical studies. <i>Proceedings of SPIE</i> , 2009, , .	0.8	9
115	Multi-laboratory performance assessment of diffuse optics instruments: the BitMap exercise. <i>Journal of Biomedical Optics</i> , 2022, 27, .	2.6	9
116	From flow cytometric BrdUrd data to cell population growth and doubling time. <i>Cytometry</i> , 1997, 29, 222-232.	1.8	8
117	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
118	A Compact Multi-Distance DCS and Time Domain NIRS Hybrid System for Hemodynamic and Metabolic Measurements. <i>Sensors</i> , 2021, 21, 870.	3.8	8
119	Monitoring the motor cortex hemodynamic response function in freely moving walking subjects: a time-domain fNIRS pilot study. <i>Neurophotonics</i> , 2021, 8, 015006.	3.3	8
120	Thermal and electronic nonlinearities in semiconductor cavities. , 2001, 4283, 577.		7
121	Study of neurovascular and autonomic response in a divided attention test by means of EEG, ECG and NIRS signals. , 2011, 2011, 1403-6.		7
122	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
123	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
124	Performance assessment of time-domain optical brain imagers: a multi-laboratory study. , 2013, , .		7
125	Reprint of "Optical properties of microstructure-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.	5.6	7
126	Frontal brain activation during a working memory task: a time-domain fNIRS study. , 2009, , .		6

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127	Assessment of basic instrumental performance of time-domain optical brain imagers. Proceedings of SPIE, 2011, , .	0.8	6
128	Reliability of fNIRS for noninvasive monitoring of brain function and emotion in sheep. Scientific Reports, 2020, 10, 14726.	3.3	6
129	Accuracy of the nonlinear fitting procedure for time-resolved measurements on diffusive phantoms at NIR wavelengths. , 2009, , .		5
130	Bone tissue phantoms for optical flowmeters at large interoptode spacing generated by 3D-stereolithography. Biomedical Optics Express, 2014, 5, 2715.	2.9	5
131	Reproducibility of identical solid phantoms. Journal of Biomedical Optics, 2022, 27, .	2.6	5
132	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
133	Effects and correctability of pile-up distortion using established figures of merit in time-domain diffuse optics at extreme photon rates. Scientific Reports, 2022, 12, 5417.	3.3	4
134	Simultaneous acquisition of time-domain fNIRS and fMRI during motor activity. , 2007, , .		3
135	Depth dependence of estimated optical properties of a scattering inclusion by time-resolved contrast functions. Optics Express, 2008, 16, 17667.	3.4	3
136	Time-resolved optical stratigraphy in turbid media. Proceedings of SPIE, 2009, , .	0.8	3
137	Time-Resolved Diffuse Optical Spectroscopy: A Differential Absorption Approach. Applied Spectroscopy, 2010, 64, 1220-1226.	2.2	3
138	Photonics for Life. IEEE Pulse, 2011, 2, 16-23.	0.3	3
139	Multichannel time domain fNIRS mapping of cortical activation and superficial systemic responses during neuromuscular electrical stimulation. Proceedings of SPIE, 2013, , .	0.8	3
140	Multi-channel time-resolved functional near infrared spectroscopy system. , 2013, , .		3
141	Accuracy of homogeneous models for photon diffusion in estimating neonatal cerebral hemodynamics by TD-NIRS. Biomedical Optics Express, 2021, 12, 1905.	2.9	3
142	Nonlinear Optical Patterns: Applications to Spatial Soliton Arrays, Quantum Aspects. Chaos, Solitons and Fractals, 1999, 10, 875-894.	5.1	2
143	Thermal instabilities in semiconductor amplifiers. Journal of Modern Optics, 2002, 49, 2413-2422.	1.3	2
144	Time-resolved reflectance spectroscopy for nondestructive assessment of fruit and vegetable quality. Proceedings of SPIE, 2007, , .	0.8	2

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145	A compact time-resolved system for NIR spectroscopy. , 2009, , .		2
146	Hybrid heuristic time dependent solution of the radiative transfer equation for the slab. , 2009, , .		2
147	Breast density assessment by means of time domain optical mammography at 635-1060 nm. Proceedings of SPIE, 2011, , .	0.8	2
148	In vivo swine myocardial tissue characterization and monitoring during open chest surgery by time-resolved diffuse near-infrared spectroscopy. , 2011, , .		2
149	Assessment of cortical response during motor task in adults by a multimodality approach based on fNIRS-EEG, fMRI-EEG, and TMS. , 2011, , .		2
150	Optical Assessment of Breast Density and its Dependence on Tissue Heterogeneity. , 2012, , .		2
151	High Power Time Domain fNIRS Device. , 2020, , .		2
152	Controlling cavity solitons in semiconductor microcavities for optical information treatment. , 2001, 4283, 551.		1
153	THE PHYSICS OF CAVITY SOLITONS IN SEMICONDUCTOR MICROCAVITIES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 2567-2578.	1.7	1
154	Four-wavelength time-resolved optical mammograph. , 2003, 4955, 203.		1
155	Nonlinear fitting procedure for accurate time-resolved measurements in diffusive media. , 2009, , .		1
156	Brain functional imaging at small source-detector distances based on fast-gated single-photon avalanche diodes. Proceedings of SPIE, 2009, , .	0.8	1
157	Functional diffuse reflectance spectroscopy at small source-detector distances based on fast-gated single-photon avalanche diodes. , 2010, , .		1
158	Anatomical brain atlas for NIRS measurements of brain activation. , 2011, , .		1
159	Non-contact time-domain scanning brain imager: results of proof of principle tests. Proceedings of SPIE, 2011, , .	0.8	1
160	Wavelength and code-division multiplexing in diffuse optical imaging. Proceedings of SPIE, 2011, , .	0.8	1
161	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
162	Optical identification of subjects at high risk for developing breast cancer. Proceedings of SPIE, 2013, , .	0.8	1

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163	A method for discriminating systemic and cortical hemodynamic changes by time domain fNIRS. Proceedings of SPIE, 2013, , .	0.8	1
164	Fiber-based hybrid probe for non-invasive cerebral monitoring in neonatology. Proceedings of SPIE, 2015, , .	0.8	1
165	Time-Domain Near-Infrared Spectroscopy in Subjects with Asymptomatic Cerebral Small Vessel Disease. Applied Sciences (Switzerland), 2021, 11, 2407.	2.5	1
166	Breast Monitoring by Time-Resolved Diffuse Optical Imaging. Springer Series in Chemical Physics, 2015, , 587-611.	0.2	1
167	Preliminary vastus lateralis characterization with time domain near infrared spectroscopy during incremental cycle exercise. , 2019, , .		1
168	Time-Resolved Functional Near-Infrared Spectroscopy at Null Source-Detector Separation. , 2008, , .		1
169	Optical mammography at 635â€“1060 nm for breast density assessment and lesion characterization. , 2010, , .		1
170	New Compact and Flexible Picosecond Laser System for Multi-wavelength Time-Resolved Tissue Spectroscopy. , 2016, , .		1
171	In vivo depth heterogeneity of the abdomen assessed by broadband time-domain diffuse optical spectroscopy. , 2017, , .		1
172	Instrument response function acquisition in reflectance geometry for time-resolved diffuse optical measurements. , 2019, , .		1
173	Multi-laboratory efforts for the standardization of performance assessment of diffuse optics instruments â€“ the BitMap Exercise. , 2020, , .		1
174	Compact Time-Domain NIRS oximeter for non-invasive brain and muscle monitoring. , 2021, , .		1
175	Brain activations during programming tasks: TD-NIRS and EEG study. , 2021, , .		1
176	Theoretical aspects and potential applications of cavity solitons in semiconductor microresonators. , 2002, , .		0
177	Breast lesion characterization by a novel nonlinear perturbation approach. , 2003, 5138, 23.		0
178	Clinical trial on time-resolved optical mammography at four wavelengths (680-975 nm). , 2003, , .		0
179	Spatial decorrelation in broad-area edge-emitting semiconductor amplifiers. European Physical Journal D, 2005, 32, 75-82.	1.3	0
180	Assessment of collagen absorption and related potential diagnostic applications. Proceedings of SPIE, 2007, 6629, 86.	0.8	0

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